



```

name: <unnamed>
log: C:\Users\igna9\Desktop\seminario\output.smcl
log type: smcl
opened on: 17 May 2022, 20:49:13

```

```

1 .
2 . use base_regresiones, clear

3 .
4 . encode Gender, gen(sex)

5 . encode type, gen(party_type)

6 . egen mun_id = group(municipality)

7 .
8 . global expenditures "remu serv d_goods total_expenses remu_bas remu_ev rentals serv_
> cf cap_prot maintenance cap_mef cap_cai salaries ext_time sub_all rent_mef publicity
> activities main_bcl cap_roads"

9 .
10. global controles_exo "Age i.sex k_12centers gdp interest_rate debt deficit"

11. global controles_pre "i.party_type win_margin abstentionism pop_share014 pop_share65
> plus"

12.
13. foreach var of varlist $expenditures{
    2.         gen r_`var' = 100 * `var' / price_index
    3.         gen l_rpc_`var' = log(r_`var' / pop)
    4. }
(3 missing values generated)
(3 missing values generated)
(3 missing values generated)
(3 missing values generated)
(3 missing values generated)
(43 missing values generated)
(5 missing values generated)
(27 missing values generated)
(3 missing values generated)
(6 missing values generated)
(61 missing values generated)
(3 missing values generated)
(33 missing values generated)
(4 missing values generated)
(57 missing values generated)
(201 missing values generated)
(109 missing values generated)
(209 missing values generated)
(192 missing values generated)

14.
15. xtset mun_id year

Panel variable: mun_id (strongly balanced)
Time variable: year, 2006 to 2020
Delta: 1 unit

16.

```

```

17. gen elec_t = (year == 2010 | year == 2015 | year == 2019)

18.
19. ds l_rpc_*
    l_rpc_remu      l_rpc_d_go~s  l_rpc_remu~s  l_rpc_rent~s  l_rpc_cap~t  l_rpc_cap~f  l_
> rpc_sala~s
>                l_rpc_sub~l
>
>                l_rpc_publ~y
>
>                l_rpc_main~l
l_rpc_serv      l_rpc_tota~s  l_rpc_remu~v  l_rpc_serv~f  l_rpc_main~e  l_rpc_cap~i  l_
> rpc_ext~e
>                l_rpc_rent~f
>
>                l_rpc_acti~s
>
>                l_rpc_cap~s

20. foreach v in `r(varlist)'{
    2.         forvalues lagelec = 0/1{
    3.             forvalues z = 1/2{
    4.                 forvalues lag = 1/4{
    5.                     xtdpdgmm L(0/`z').`v' L(0/`lagelec').elec_t ${con
> troles_exo} ${controles_pre}, ///
>                                     gmm(L(`z').`v' ${controles_exo} ${controles_pre}, l(
> 1 `lag') c m(d)) ///
>                                     iv(L(1/`z').`v' L(0/`lagelec').elec_t ${controles_ex
> o}, d) two vce(r) overid collapse
    6.                                     estat overid // sargan test
    7.                                     estat serial, ar(1/2) // for serial correlation
    8.                                     }
    9.                                     }
    10.                }
    11. }

```

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.00872438**

Step 2 f(b) = **.31824523**

Fitting reduced model 2:

Step 1 f(b) = **1.950e-20**

Group variable: **mun_id** Number of obs = **1125**
Time variable: **year** Number of groups = **81**

Moment conditions: linear = **24** Obs per group: min = **11**
 nonlinear = **0** avg = **13.88889**
 total = **24** max = **14**

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_remu	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_remu L1.	.6202656	.267964	2.31	0.021	.0950658	1.145465
elec_t	-.0366912	.0274717	-1.34	0.182	-.0905347	.0171523
Age	.0033897	.0035817	0.95	0.344	-.0036303	.0104097
sex						
Male	-.0994657	.0722818	-1.38	0.169	-.2411354	.042204
k_12centers	-.0007281	.0005193	-1.40	0.161	-.0017459	.0002897
gdp	2.21e-08	1.15e-08	1.92	0.055	-4.80e-10	4.47e-08
interest_rate	-.0077665	.0080549	-0.96	0.335	-.0235539	.0080208
debt	-.0073282	.0020788	-3.53	0.000	-.0114027	-.0032538
deficit	5.84e-08	2.96e-08	1.97	0.049	2.72e-10	1.16e-07
party_type						
National	.2083185	.2071462	1.01	0.315	-.1976806	.6143175
Provincial	3.220102	2.565839	1.25	0.209	-1.808851	8.249055
win_margin	-.0000965	.0035961	-0.03	0.979	-.0071447	.0069517

abstentionism	.0105236	.0069717	1.51	0.131	-.0031407	.0241878
pop_share014	.0114808	.01728	0.66	0.506	-.0223873	.0453489
pop_share65plus	.0660119	.0413659	1.60	0.111	-.0150637	.1470876
_cons	2.218218	2.302393	0.96	0.335	-2.29439	6.730825

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L1_rpc remu L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
L1.abstentionism L1.pop_share014 L1.pop_share65plus

2, model(level):

D.L1_rpc remu D.elec_t D.Age D.2.sex D.k_12centers D.gdp D.interest_rate
D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(10) = 25.7779
Prob > chi2 = 0.0041

2-step moment functions, 3-step weighting matrix chi2(10) = 35.9737
Prob > chi2 = 0.0001

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -2.7301 Prob > |z| = 0.0063

H0: no autocorrelation of order 2: z = -0.3724 Prob > |z| = 0.7096

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .01500575

Step 2 f(b) = .51456454

Fitting reduced model 2:

Step 1 f(b) = .37564049

Group variable: **mun_id**

Number of obs = 1125

Time variable: **year**

Number of groups = 81

Moment conditions: linear = 38 Obs per group: min = 11
 nonlinear = 0 avg = 13.88889
 total = 38 max = 14

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_remu	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_remu						
L1.	.6357401	.1837658	3.46	0.001	.2755657	.9959145
elec_t	-.0300245	.0187049	-1.61	0.108	-.0666855	.0066365
Age	.0013147	.0029565	0.44	0.657	-.0044799	.0071093
sex						
Male	-.0278746	.0619673	-0.45	0.653	-.1493283	.0935792
k_12centers	-.0007805	.0004071	-1.92	0.055	-.0015783	.0000173
gdp	2.28e-08	5.79e-09	3.93	0.000	1.14e-08	3.41e-08
interest_rate	-.0078948	.0058834	-1.34	0.180	-.0194261	.0036365
debt	-.0063534	.0010929	-5.81	0.000	-.0084954	-.0042114
deficit	4.62e-08	2.50e-08	1.85	0.064	-2.68e-09	9.51e-08
party_type						
National	.2982186	.1727946	1.73	0.084	-.0404527	.6368898
Provincial	1.309403	1.645051	0.80	0.426	-1.914837	4.533644
win_margin	-.001491	.0038432	-0.39	0.698	-.0090235	.0060416
abstentionism	.0069514	.0036347	1.91	0.056	-.0001725	.0140753
pop_share014	.0139609	.0130883	1.07	0.286	-.0116916	.0396134
pop_share65plus	.0499891	.0191814	2.61	0.009	.0123942	.0875839

_cons	2.257318	1.836285	1.23	0.219	-1.341734	5.85637
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Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L1.rpc_remu L2.L1.rpc_remu L1.Age L2.Age L1.2.sex L2.2.sex
  L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
  L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
  L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
  L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
  L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
2, model(level):
  D.L1.rpc_remu D.elec_t D.Age D.2.sex D.k_12centers D.gdp D.interest_rate
  D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(24) = 41.6797
 Prob > chi2 = 0.0140

2-step moment functions, 3-step weighting matrix chi2(24) = 46.4790
 Prob > chi2 = 0.0039

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -3.4946 Prob > |z| = 0.0005
 H0: no autocorrelation of order 2: z = -0.1966 Prob > |z| = 0.8441

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .03175324
 Step 2 f(b) = .64703678

Fitting reduced model 2:

Step 1 f(b) = .5712762

Group variable: **mun_id** Number of obs = 1125
 Time variable: **year** Number of groups = 81

Moment conditions: linear = 51 Obs per group: min = 11
 nonlinear = 0 avg = 13.88889
 total = 51 max = 14

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_remu	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_remu						
L1.	.6289868	.131021	4.80	0.000	.3721903	.8857832
elec_t	-.0247529	.0128377	-1.93	0.054	-.0499143	.0004085
Age	.0008236	.002981	0.28	0.782	-.0050192	.0066663
sex						
Male	-.0070031	.0463983	-0.15	0.880	-.097942	.0839358
k_12centers	-.0004559	.0003976	-1.15	0.252	-.0012351	.0003233
gdp	2.08e-08	4.35e-09	4.78	0.000	1.23e-08	2.93e-08
interest_rate	-.0059926	.0051107	-1.17	0.241	-.0160093	.0040241
debt	-.0063466	.001351	-4.70	0.000	-.0089945	-.0036988
deficit	5.79e-08	2.16e-08	2.67	0.007	1.55e-08	1.00e-07
party_type						
National	.3869622	.2561652	1.51	0.131	-.1151124	.8890367
Provincial	-.2330848	1.40511	-0.17	0.868	-2.98705	2.52088
win_margin	-.0013915	.0045623	-0.30	0.760	-.0103335	.0075505
abstentionism	.0029332	.0040455	0.73	0.468	-.004996	.0108623
pop_share014	.0102726	.0093792	1.10	0.273	-.0081103	.0286555
pop_share65plus	.0489909	.0241066	2.03	0.042	.0017428	.096239

_cons	2.608996	1.268624	2.06	0.040	.1225385	5.095453
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Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L1_rpc_remu L2.L1_rpc_remu L3.L1_rpc_remu L1.Age L2.Age L3.Age
  L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers L3.k_12centers
  L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate L3.interest_rate
  L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit L1.2bn.party_type
  L2.2bn.party_type L3.2bn.party_type L1.3.party_type L2.3.party_type
  L3.3.party_type L1.win_margin L2.win_margin L3.win_margin L1.abstentionism
  L2.abstentionism L3.abstentionism L1.pop_share014 L2.pop_share014
  L3.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus
2, model(level):
  D.L1_rpc_remu D.Age D.2.sex D.k_12centers D.gdp D.interest_rate D.debt
  D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(37) = **52.4100**
 Prob > chi2 = **0.0480**

2-step moment functions, 3-step weighting matrix chi2(37) = **62.5392**
 Prob > chi2 = **0.0054**

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-3.3375** Prob > |z| = **0.0008**

H0: no autocorrelation of order 2: z = **-0.0180** Prob > |z| = **0.9857**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.03343565**

Step 2 f(b) = **.74636266**

Fitting reduced model 2:

Step 1 f(b) = **.64105013**

Group variable: **mun_id** Number of obs = **1125**
 Time variable: **year** Number of groups = **81**

Moment conditions: linear = **61** Obs per group: min = **11**
 nonlinear = **0** avg = **13.88889**
 total = **61** max = **14**

(Std. err. adjusted for **81** clusters in **mun_id**)

	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_remu						
l_rpc_remu						
L1.	.6164714	.1166002	5.29	0.000	.3879392	.8450036
elec_t	-.0247776	.0134001	-1.85	0.064	-.0510413	.001486
Age	.0007822	.0024204	0.32	0.747	-.0039617	.0055262
sex						
Male	-.015086	.0457035	-0.33	0.741	-.1046631	.0744912
k_12centers	-.0004129	.0003776	-1.09	0.274	-.0011531	.0003272
gdp	2.07e-08	4.13e-09	5.02	0.000	1.26e-08	2.88e-08
interest_rate	-.0023064	.0045649	-0.51	0.613	-.0112535	.0066406
debt	-.0061175	.0012909	-4.74	0.000	-.0086477	-.0035873
deficit	6.80e-08	2.12e-08	3.21	0.001	2.64e-08	1.10e-07
party_type						
National	.4072505	.2470724	1.65	0.099	-.0770026	.8915036
Provincial	.3160575	1.115128	0.28	0.777	-1.869553	2.501669
win_margin	-.0010778	.0021093	-0.51	0.609	-.0052119	.0030563
abstentionism	.0027898	.0036775	0.76	0.448	-.0044179	.0099975

pop_share014	.0088305	.0099994	0.88	0.377	-.010768	.0284291
pop_share65plus	.0467149	.0252442	1.85	0.064	-.0027629	.0961926
_cons	2.752051	1.176831	2.34	0.019	.4455038	5.058598

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L1_rpc_remu L2.L1_rpc_remu L3.L1_rpc_remu L4.L1_rpc_remu L1.Age
  L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex L4.2.sex L1.k_12centers
  L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp L2.gdp L3.gdp L4.gdp
  L4.interest_rate L2.debt L3.debt L4.debt L1.deficit L2.deficit L3.deficit
  L4.deficit L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type
  L4.2bn.party_type L1.3.party_type L2.3.party_type L3.3.party_type
  L4.3.party_type L1.win_margin L2.win_margin L3.win_margin L4.win_margin
  L1.abstentionism L2.abstentionism L3.abstentionism L4.abstentionism
  L1.pop_share014 L2.pop_share014 L3.pop_share014 L4.pop_share014
  L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus L4.pop_share65plus
2, model(level):
  D.L1_rpc_remu D.Age D.2.sex D.k_12centers D.gdp D.interest_rate D.debt
  D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(47) = 60.4554
 Prob > chi2 = 0.0899

2-step moment functions, 3-step weighting matrix chi2(47) = 67.9666
 Prob > chi2 = 0.0243

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -3.4805 Prob > |z| = 0.0005

H0: no autocorrelation of order 2: z = -0.0673 Prob > |z| = 0.9463

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .01023175

Step 2 f(b) = .16816013

Fitting reduced model 2:

Step 1 f(b) = 2.897e-14

Group variable: **mun_id** Number of obs = 1042

Time variable: **year** Number of groups = 81

Moment conditions: linear = 25 Obs per group: min = 10
 nonlinear = 0 avg = 12.8642
 total = 25 max = 13

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_remu	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_remu						
L1.	.7307083	.1277851	5.72	0.000	.4802541	.9811626
L2.	.0944944	.0870113	1.09	0.277	-.0760446	.2650334
elec_t	-.0406062	.0207034	-1.96	0.050	-.0811841	-.0000282
Age	.0016991	.004359	0.39	0.697	-.0068444	.0102426
sex						
Male	-.0795476	.0778422	-1.02	0.307	-.2321156	.0730204
k_12centers	-.0000576	.0007276	-0.08	0.937	-.0014837	.0013685
gdp	2.63e-08	7.91e-09	3.32	0.001	1.08e-08	4.18e-08
interest_rate	-.0111171	.0073146	-1.52	0.129	-.0254535	.0032193
debt	-.0135476	.0033154	-4.09	0.000	-.0200456	-.0070497
deficit	9.30e-08	4.34e-08	2.15	0.032	8.07e-09	1.78e-07
party_type						

National	.2323857	.4614715	0.50	0.615	-.6720819	1.136853
Provincial	-1.741521	3.24492	-0.54	0.591	-8.101447	4.618404
win_margin	.0015504	.0041688	0.37	0.710	-.0066203	.0097212
abstentionism	.0068901	.0068674	1.00	0.316	-.0065698	.02035
pop_share014	.0203531	.0150252	1.35	0.176	-.0090959	.049802
pop_share65plus	.0915156	.0356837	2.56	0.010	.0215767	.1614544
_cons	.2328991	1.279033	0.18	0.856	-2.273959	2.739757

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.1_rpc_remu L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
L1.abstentionism L1.pop_share014 L1.pop_share65plus

2, model(level):

D.L.1_rpc_remu D.L2.1_rpc_remu D.elec_t D.Age D.2.sex D.k_12centers D.gdp
D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(10) = 13.6210
Prob > chi2 = 0.1910

2-step moment functions, 3-step weighting matrix chi2(10) = 19.6379
Prob > chi2 = 0.0329

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -3.0334 Prob > |z| = 0.0024

H0: no autocorrelation of order 2: z = -1.4810 Prob > |z| = 0.1386

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .01859543

Step 2 f(b) = .49131511

Fitting reduced model 2:

Step 1 f(b) = .32376498

Group variable: **mun_id**

Number of obs = 1042

Time variable: **year**

Number of groups = 81

Moment conditions: linear = 39 Obs per group: min = 10
 nonlinear = 0 avg = 12.8642
 total = 39 max = 13

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_remu	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_remu						
L1.	.6484455	.1499508	4.32	0.000	.3545474	.9423436
L2.	.0102629	.0929841	0.11	0.912	-.1719826	.1925085
elec_t	-.0453525	.0178359	-2.54	0.011	-.0803102	-.0103949
Age	.0059104	.0036233	1.63	0.103	-.0011911	.0130118
sex						
Male	-.0777706	.0698602	-1.11	0.266	-.214694	.0591529
k_12centers	.0002261	.0005859	0.39	0.700	-.0009223	.0013745
gdp	2.25e-08	4.81e-09	4.67	0.000	1.30e-08	3.19e-08
interest_rate	-.0055849	.0053956	-1.04	0.301	-.01616	.0049902
debt	-.0095335	.001755	-5.43	0.000	-.0129731	-.0060938
deficit	8.90e-08	3.21e-08	2.77	0.006	2.60e-08	1.52e-07
party_type						
National	.2204662	.3052745	0.72	0.470	-.3778608	.8187933
Provincial	-3.07179	2.917282	-1.05	0.292	-8.789559	2.645978

win_margin	-.0002905	.0038478	-0.08	0.940	-.0078321	.0072511
abstentionism	.0057639	.0060993	0.95	0.345	-.0061905	.0177183
pop_share014	.0035406	.0139416	0.25	0.800	-.0237843	.0308656
pop_share65plus	.0716618	.0206317	3.47	0.001	.0312244	.1120992
_cons	2.187022	1.603066	1.36	0.172	-.9549297	5.328974

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L2.1_rpc_remu L2.L2.1_rpc_remu L1.Age L2.Age L1.2.sex L2.2.sex
  L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
  L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
  L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
  L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
  L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
2, model(level):
  D.L.1_rpc_remu D.L2.1_rpc_remu D.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(24) = 39.7965
 Prob > chi2 = 0.0225

2-step moment functions, 3-step weighting matrix chi2(24) = 54.3018
 Prob > chi2 = 0.0004

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -3.0678 Prob > |z| = 0.0022

H0: no autocorrelation of order 2: z = 0.2405 Prob > |z| = 0.8100

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .02401436

Step 2 f(b) = .64804076

Fitting reduced model 2:

Step 1 f(b) = .4913121

Group variable: mun_id

Number of obs = 1042

Time variable: year

Number of groups = 81

Moment conditions: linear = 51 Obs per group: min = 10
 nonlinear = 0 avg = 12.8642
 total = 51 max = 13

(Std. err. adjusted for 81 clusters in mun_id)

l_rpc_remu	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_remu						
L1.	.6040569	.1441794	4.19	0.000	.3214704	.8866433
L2.	.0244107	.0911821	0.27	0.789	-.154303	.2031244
elec_t	-.0336538	.017541	-1.92	0.055	-.0680336	.000726
Age	.0010494	.0027907	0.38	0.707	-.0044203	.006519
sex						
Male	-.0137775	.0565656	-0.24	0.808	-.124644	.097089
k_12centers	-.0002227	.0005495	-0.41	0.685	-.0012997	.0008544
gdp	2.21e-08	5.09e-09	4.34	0.000	1.21e-08	3.21e-08
interest_rate	-.0049528	.0053464	-0.93	0.354	-.0154316	.005526
debt	-.0084022	.001881	-4.47	0.000	-.0120888	-.0047155
deficit	7.24e-08	2.83e-08	2.55	0.011	1.69e-08	1.28e-07
party_type						
National	.3874551	.2877721	1.35	0.178	-.1765679	.9514781

Provincial	-1.194552	2.29199	-0.52	0.602	-5.686771	3.297666
win_margin	-.0022757	.0046282	-0.49	0.623	-.0113467	.0067954
abstentionism	.0014774	.0055193	0.27	0.789	-.0093402	.012295
pop_share014	.0079743	.0136056	0.59	0.558	-.0186922	.0346407
pop_share65plus	.0670799	.0231191	2.90	0.004	.0217673	.1123926
_cons	2.705798	1.776167	1.52	0.128	-.7754247	6.187021

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L2.1_rpc_remu L2.L2.1_rpc_remu L3.L2.1_rpc_remu L1.Age L2.Age L3.Age
  L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers L3.k_12centers
  L1.gdp L2.gdp L3.gdp L3.interest_rate L1.debt L2.debt L3.debt L1.deficit
  L2.deficit L3.deficit L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type
  L1.3.party_type L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin
  L3.win_margin L1.abstentionism L2.abstentionism L3.abstentionism
  L1.pop_share014 L2.pop_share014 L3.pop_share014 L1.pop_share65plus
  L2.pop_share65plus L3.pop_share65plus
2, model(level):
  D.L1.1_rpc_remu D.L2.1_rpc_remu D.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix	chi2(36)	=	52.4913
	Prob > chi2	=	0.0373

2-step moment functions, 3-step weighting matrix	chi2(36)	=	67.9973
	Prob > chi2	=	0.0010

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1:	z =	-3.1953	Prob > z =	0.0014
H0: no autocorrelation of order 2:	z =	-0.0938	Prob > z =	0.9253

Generalized method of moments estimation

Fitting full model:

Step 1	f(b) =	.02640359
Step 2	f(b) =	.75013287

Fitting reduced model 2:

Step 1	f(b) =	.55474732
--------	--------	-----------

Group variable: mun_id	Number of obs	=	1042
Time variable: year	Number of groups	=	81

Moment conditions:	linear =	61	Obs per group:	min =	10
	nonlinear =	0		avg =	12.8642
	total =	61		max =	13

(Std. err. adjusted for 81 clusters in mun_id)

l_rpc_remu	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_remu						
L1.	.5943783	.1138199	5.22	0.000	.3712954	.8174611
L2.	.0082071	.0914651	0.09	0.929	-.1710613	.1874755
elec_t	-.0372178	.0153938	-2.42	0.016	-.067389	-.0070465
Age	.0009753	.0023685	0.41	0.681	-.0036668	.0056173
sex						
Male	-.0298085	.0531117	-0.56	0.575	-.1339054	.0742885
k_12centers	-.000237	.0004272	-0.55	0.579	-.0010743	.0006002
gdp	2.29e-08	4.88e-09	4.70	0.000	1.34e-08	3.25e-08
interest_rate	-.001856	.0043308	-0.43	0.668	-.0103442	.0066322
debt	-.0085271	.0017814	-4.79	0.000	-.0120186	-.0050355
deficit	8.72e-08	2.50e-08	3.48	0.000	3.81e-08	1.36e-07

party_type						
National	.4342193	.2582888	1.68	0.093	-.0720175	.940456
Provincial	-.266222	1.359637	-0.20	0.845	-2.931062	2.398618
win_margin	-.000925	.0027341	-0.34	0.735	-.0062837	.0044337
abstentionism	.0025222	.0053759	0.47	0.639	-.0080143	.0130587
pop_share014	.0031348	.0118625	0.26	0.792	-.0201152	.0263848
pop_share65plus	.0644404	.0229273	2.81	0.005	.0195038	.109377
_cons	2.980744	1.496836	1.99	0.046	.0469992	5.91449

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L2.1 rpc_remu L2.L2.1 rpc_remu L3.L2.1 rpc_remu L4.L2.1 rpc_remu L1.Age
  L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex L4.2.sex L1.k_12centers
  L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp L2.gdp L3.gdp L4.gdp
  L1.debt L3.debt L4.debt L1.deficit L2.deficit L3.deficit L4.deficit
  L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L4.2bn.party_type
  L1.3.party_type L2.3.party_type L3.3.party_type L4.3.party_type
  L1.win_margin L2.win_margin L3.win_margin L4.win_margin L1.abstentionism
  L2.abstentionism L3.abstentionism L4.abstentionism L1.pop_share014
  L2.pop_share014 L3.pop_share014 L4.pop_share014 L1.pop_share65plus
  L2.pop_share65plus L3.pop_share65plus L4.pop_share65plus
2, model(level):
  D.L.1 rpc_remu D.L2.1 rpc_remu D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix	chi2(46)	=	60.7608
	Prob > chi2	=	0.0711

2-step moment functions, 3-step weighting matrix	chi2(46)	=	72.0220
	Prob > chi2	=	0.0084

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1:	z =	-3.8257	Prob > z =	0.0001
H0: no autocorrelation of order 2:	z =	0.1757	Prob > z =	0.8605

Generalized method of moments estimation

Fitting full model:

Step 1	f(b) =	.00871172
Step 2	f(b) =	.31977871

Fitting reduced model 2:

Step 1	f(b) =	4.086e-18
--------	--------	-----------

Group variable: mun_id	Number of obs	=	1125
Time variable: year	Number of groups	=	81

Moment conditions:	linear =	25	Obs per group:	min =	11
	nonlinear =	0		avg =	13.88889
	total =	25		max =	14

(Std. err. adjusted for 81 clusters in mun_id)

l_rpc_remu	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_remu L1.	.6084183	.2611423	2.33	0.020	.0965888	1.120248
elec_t --.	-.0203334	.0394128	-0.52	0.606	-.0975812	.0569144
L1.	.0198729	.0255887	0.78	0.437	-.0302802	.0700259
Age	.0033724	.0036009	0.94	0.349	-.0036852	.0104301

sex						
Male	-.1004546	.0723265	-1.39	0.165	-.242212	.0413028
k_12centers	-.0007299	.0005211	-1.40	0.161	-.0017511	.0002914
gdp	2.18e-08	1.15e-08	1.89	0.058	-7.67e-10	4.44e-08
interest_rate	-.003433	.0103048	-0.33	0.739	-.0236301	.0167641
debt	-.0066776	.0026603	-2.51	0.012	-.0118918	-.0014634
deficit	4.19e-08	4.25e-08	0.99	0.324	-4.14e-08	1.25e-07
party_type						
National	.201677	.2071968	0.97	0.330	-.2044212	.6077752
Provincial	3.221167	2.577022	1.25	0.211	-1.829702	8.272037
win_margin	-.0001715	.0035655	-0.05	0.962	-.0071598	.0068167
abstentionism	.0109949	.0066335	1.66	0.097	-.0020065	.0239963
pop_share014	.0123969	.0172191	0.72	0.472	-.0213519	.0461457
pop_share65plus	.0674686	.0390286	1.73	0.084	-.0090261	.1439633
_cons	2.198306	2.309944	0.95	0.341	-2.329101	6.725713

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L1_rpc_remu L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
L1.abstentionism L1.pop_share014 L1.pop_share65plus

2, model(level):

D.L1_rpc_remu D.elec_t D.L.elec_t D.Age D.2.sex D.k_12centers D.gdp
D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(10) = 25.9021
Prob > chi2 = 0.0039

2-step moment functions, 3-step weighting matrix chi2(10) = 35.9684
Prob > chi2 = 0.0001

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -2.7361 Prob > |z| = 0.0062

H0: no autocorrelation of order 2: z = -0.3838 Prob > |z| = 0.7011

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .01488483

Step 2 f(b) = .47985762

Fitting reduced model 2:

Step 1 f(b) = .36530054

Group variable: **mun_id**

Number of obs = 1125

Time variable: **year**

Number of groups = 81

Moment conditions: linear = 39 Obs per group: min = 11
 nonlinear = 0 avg = 13.88889
 total = 39 max = 14

(Std. err. adjusted for 81 clusters in **mun_id**)

	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_remu						
l_rpc_remu						
L1.	.5719283	.1461278	3.91	0.000	.285523	.8583335
elec_t						
--						
L1.	-.0123602	.0164143	-0.75	0.451	-.0445317	.0198112
	.0309705	.0163101	1.90	0.058	-.0009968	.0629377
Age	.0018378	.0027525	0.67	0.504	-.0035569	.0072326

sex						
Male	-.0501261	.0539954	-0.93	0.353	-.1559552	.0557029
k_12centers	-.0009466	.0004688	-2.02	0.043	-.0018654	-.0000278
gdp	2.40e-08	5.05e-09	4.75	0.000	1.41e-08	3.39e-08
interest_rate	.0004379	.0062834	0.07	0.944	-.0118774	.0127532
debt	-.0053049	.0012734	-4.17	0.000	-.0078008	-.002809
deficit	2.45e-08	2.47e-08	1.00	0.320	-2.38e-08	7.29e-08
party_type						
National	.197654	.1422556	1.39	0.165	-.0811618	.4764699
Provincial	1.535443	1.534538	1.00	0.317	-1.472196	4.543083
win_margin	-.0019688	.0042949	-0.46	0.647	-.0103866	.0064489
abstentionism	.0074907	.0033712	2.22	0.026	.0008833	.014098
pop_share014	.0138379	.0091505	1.51	0.130	-.0040968	.0317726
pop_share65plus	.0481349	.0171891	2.80	0.005	.0144449	.0818248
_cons	2.803043	1.477734	1.90	0.058	-.0932617	5.699348

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L.1_rpc_remu L2.L.1_rpc_remu L1.Age L2.Age L1.2.sex L2.2.sex
 L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
 L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
 L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
 L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
 L2.pop_share014 L1.pop_share65plus L2.pop_share65plus

2, model(level):

D.L.1_rpc_remu D.elec_t D.L.elec_t D.Age D.2.sex D.k_12centers D.gdp
 D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(24) = 38.8685
 Prob > chi2 = 0.0282

2-step moment functions, 3-step weighting matrix chi2(24) = 47.0769
 Prob > chi2 = 0.0033

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -3.1577 Prob > |z| = 0.0016

H0: no autocorrelation of order 2: z = -0.2883 Prob > |z| = 0.7731

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .03062701

Step 2 f(b) = .6286126

Fitting reduced model 2:

Step 1 f(b) = .571508

Group variable: **mun_id**

Number of obs = 1125

Time variable: **year**

Number of groups = 81

Moment conditions: linear = 51 Obs per group: min = 11
 nonlinear = 0 avg = 13.88889
 total = 51 max = 14

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_remu	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_remu L1.	.6224474	.140459	4.43	0.000	.3471528	.897742
elec_t --.	-.0047158	.0227978	-0.21	0.836	-.0493988	.0399671
L1.	.0316854	.0256761	1.23	0.217	-.0186389	.0820097
Age	-.0001772	.0030777	-0.06	0.954	-.0062094	.0058551
sex						
Male	.0063197	.0493136	0.13	0.898	-.0903332	.1029726
k_12centers	-.0005792	.000451	-1.28	0.199	-.0014631	.0003047
gdp	2.19e-08	4.85e-09	4.51	0.000	1.24e-08	3.14e-08
interest_rate	-.0014726	.0067591	-0.22	0.828	-.0147202	.011775
debt	-.00543	.0016834	-3.23	0.001	-.0087294	-.0021305
deficit	3.19e-08	3.75e-08	0.85	0.396	-4.17e-08	1.05e-07
party_type						
National	.2798852	.214934	1.30	0.193	-.1413777	.701148
Provincial	-.3932191	1.45431	-0.27	0.787	-3.243614	2.457175
win_margin	-.0007763	.0041527	-0.19	0.852	-.0089154	.0073628
abstentionism	.0030529	.0032442	0.94	0.347	-.0033056	.0094114
pop_share014	.0129664	.0101786	1.27	0.203	-.0069832	.032916
pop_share65plus	.0366288	.027306	1.34	0.180	-.01689	.0901476
_cons	2.698019	1.312224	2.06	0.040	.1261084	5.269931

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
```

L1.L1_rpc_remu L2.L1_rpc_remu L3.L1_rpc_remu L1.Age L2.Age L3.Age
L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers L3.k_12centers
L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate L3.interest_rate
L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit L1.2bn.party_type
L2.2bn.party_type L3.2bn.party_type L1.3.party_type L2.3.party_type
L3.3.party_type L1.win_margin L2.win_margin L3.win_margin L1.abstentionism
L2.abstentionism L3.abstentionism L1.pop_share014 L2.pop_share014
L3.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus

```
2, model(level):
```

D.L1_rpc_remu D.Age D.2.sex D.k_12centers D.gdp D.interest_rate D.debt
D.deficit

```
3, model(level):
```

cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

[illegible][illegible]

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1:	z =	-3.2524	Prob > z =	0.0011
H0: no autocorrelation of order 2:	z =	-0.1140	Prob > z =	0.9092

Generalized method of moments estimation

Fitting full model:

```

Step 1      f(b) =  .0323189
Step 2      f(b) =  .70315725

```

Fitting reduced model 2:

Step 1 $f(b) = .63101986$

Group variable: **mun_id** Number of obs = **1125**
Time variable: **year** Number of groups = **81**

Moment conditions: linear = **61** Obs per group: min = **11**
nonlinear = **0** avg = **13.88889**
total = **61** max = **14**

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_remu	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_remu						
L1.	.6009806	.1148303	5.23	0.000	.3759173	.8260439
elec_t						
--	-.0030215	.0246901	-0.12	0.903	-.0514132	.0453701
L1.	.0356962	.0284934	1.25	0.210	-.0201499	.0915423
Age	-.0002263	.0026642	-0.08	0.932	-.005448	.0049955
sex						
Male	-.0055222	.0482483	-0.11	0.909	-.1000873	.0890428
k_12centers	-.0005928	.0004685	-1.27	0.206	-.0015109	.0003254
gdp	2.23e-08	4.54e-09	4.91	0.000	1.34e-08	3.11e-08
interest_rate	.0030226	.0063442	0.48	0.634	-.0094119	.0154571
debt	-.0050292	.0018167	-2.77	0.006	-.0085898	-.0014686
deficit	3.61e-08	4.02e-08	0.90	0.369	-4.27e-08	1.15e-07
party_type						
National	.3322965	.2429036	1.37	0.171	-.1437858	.8083788
Provincial	.0572453	1.172837	0.05	0.961	-2.241472	2.355963
win_margin	-.0005929	.0019349	-0.31	0.759	-.0043852	.0031995
abstentionism	.0023542	.0034084	0.69	0.490	-.004326	.0090345
pop_share014	.0119896	.0114288	1.05	0.294	-.0104105	.0343898
pop_share65plus	.0337641	.0294886	1.14	0.252	-.0240324	.0915607
_cons	2.903406	1.122738	2.59	0.010	.7028809	5.103932

Instruments corresponding to the linear moment conditions:

1, model(diff):
L1.L1.l_rpc_remu L2.L1.l_rpc_remu L3.L1.l_rpc_remu L4.L1.l_rpc_remu L1.Age
L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex L4.2.sex L1.k_12centers
L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp L2.gdp L3.gdp L4.gdp
L4.interest_rate L2.debt L3.debt L4.debt L1.deficit L2.deficit L3.deficit
L4.deficit L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type
L4.2bn.party_type L1.3.party_type L2.3.party_type L3.3.party_type
L4.3.party_type L1.win_margin L2.win_margin L3.win_margin L4.win_margin
L1.abstentionism L2.abstentionism L3.abstentionism L4.abstentionism
L1.pop_share014 L2.pop_share014 L3.pop_share014 L4.pop_share014
L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus L4.pop_share65plus
2, model(level):
D.L1.l_rpc_remu D.Age D.2.sex D.k_12centers D.gdp D.interest_rate D.debt
D.deficit
3, model(level):
_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(46) = **56.9557**
Prob > chi2 = **0.1291**

2-step moment functions, 3-step weighting matrix chi2(46) = **68.2802**
Prob > chi2 = **0.0181**

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-3.3480** Prob > |z| = **0.0008**

H0: no autocorrelation of order 2: z = **-0.1575** Prob > |z| = **0.8749**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .01007745

Step 2 f(b) = .17045976

Group variable: **mun_id**

Number of obs = 1042

Time variable: **year**

Number of groups = 81

Moment conditions:	linear =	26	Obs per group: min =	10
	nonlinear =	0	avg =	12.8642
	total =	26	max =	13

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_remu	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_remu						
L1.	.7216622	.1319353	5.47	0.000	.4630737	.9802507
L2.	.0974051	.0873494	1.12	0.265	-.0737966	.2686068
elec_t						
--.	-.0263566	.0340448	-0.77	0.439	-.0930831	.0403699
L1.	.0176489	.0249006	0.71	0.478	-.0311554	.0664532
Age	.0015258	.0043421	0.35	0.725	-.0069845	.0100361
sex						
Male	-.0791352	.0767918	-1.03	0.303	-.2296443	.071374
k_12centers	-.0000413	.0007077	-0.06	0.953	-.0014285	.0013458
gdp	2.60e-08	8.00e-09	3.25	0.001	1.04e-08	4.17e-08
interest_rate	-.0073867	.0081708	-0.90	0.366	-.0234013	.0086278
debt	-.0130112	.0037249	-3.49	0.000	-.0203118	-.0057106
deficit	7.85e-08	5.74e-08	1.37	0.171	-3.39e-08	1.91e-07
party_type						
National	.2284651	.4599571	0.50	0.619	-.6730342	1.129964
Provincial	-1.860537	3.249179	-0.57	0.567	-8.228811	4.507737
win_margin	.0015976	.0040718	0.39	0.695	-.006383	.0095783
abstentionism	.006941	.0064818	1.07	0.284	-.0057631	.0196452
pop_share014	.0213605	.0154121	1.39	0.166	-.0088467	.0515677
pop_share65plus	.0918823	.0330693	2.78	0.005	.0270677	.1566969
_cons	.2037344	1.290769	0.16	0.875	-2.326125	2.733594

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.l_rpc_remu L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate

L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin

L1.abstentionism L1.pop_share014 L1.pop_share65plus

2, model(level):

D.L.l_rpc_remu D.L2.l_rpc_remu D.elec_t D.L.elec_t D.Age D.2.sex

D.k_12centers D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix	chi2(10)	=	13.8072
	Prob > chi2	=	0.1820

2-step moment functions, 3-step weighting matrix	chi2(10)	=	22.5268
	Prob > chi2	=	0.0126

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -2.8933 Prob > |z| = 0.0038

H0: no autocorrelation of order 2: z = -1.5533 Prob > |z| = 0.1204

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .01860013
 Step 2 f(b) = .46232491

Fitting reduced model 2:

Step 1 f(b) = .27257754

Group variable: **mun_id**

Number of obs = 1042

Time variable: **year**

Number of groups = 81

Moment conditions: linear = 40 Obs per group: min = 10
 nonlinear = 0 avg = 12.8642
 total = 40 max = 13

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_remu	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_remu						
L1.	.6405445	.149477	4.29	0.000	.3475749	.9335141
L2.	.0300174	.0976393	0.31	0.759	-.1613522	.2213869
elec_t						
--.	-.0213946	.0261039	-0.82	0.412	-.0725573	.0297682
L1.	.0284436	.022498	1.26	0.206	-.0156517	.072539
Age	.0038839	.0042973	0.90	0.366	-.0045387	.0123064
sex						
Male	-.0588728	.070042	-0.84	0.401	-.1961525	.0784069
k_12centers	.0001676	.0006036	0.28	0.781	-.0010153	.0013506
gdp	2.18e-08	4.83e-09	4.52	0.000	1.24e-08	3.13e-08
interest_rate	-.0017094	.0064023	-0.27	0.789	-.0142577	.0108388
debt	-.008787	.0019009	-4.62	0.000	-.0125127	-.0050613
deficit	6.03e-08	4.61e-08	1.31	0.192	-3.02e-08	1.51e-07
party_type						
National	.0804316	.285438	0.28	0.778	-.4790166	.6398799
Provincial	-3.448247	3.271015	-1.05	0.292	-9.85932	2.962825
win_margin	.0006039	.0040358	0.15	0.881	-.0073061	.008514
abstentionism	.0041326	.0061612	0.67	0.502	-.0079431	.0162082
pop_share014	.0082482	.0148026	0.56	0.577	-.0207642	.0372607
pop_share65plus	.0664619	.0189777	3.50	0.000	.0292662	.1036576
_cons	2.223282	1.703493	1.31	0.192	-1.115502	5.562066

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.1_rpc_remu L2.L2.1_rpc_remu L1.Age L2.Age L1.2.sex L2.2.sex
 L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
 L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
 L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
 L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
 L2.pop_share014 L1.pop_share65plus L2.pop_share65plus

2, model(level):

D.L.1_rpc_remu D.L2.1_rpc_remu D.elec_t D.L.elec_t D.Age D.2.sex
 D.k_12centers D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(24) = 37.4483
 Prob > chi2 = 0.0395

2-step moment functions, 3-step weighting matrix chi2(24) = 56.6402
 Prob > chi2 = 0.0002

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-2.8174** Prob > |z| = **0.0048**
H0: no autocorrelation of order 2: z = **-0.1842** Prob > |z| = **0.8538**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.02342174**
Step 2 f(b) = **.62761889**

Fitting reduced model 2:

Step 1 f(b) = **.47721415**

Group variable: **mun_id** Number of obs = **1042**
Time variable: **year** Number of groups = **81**

Moment conditions: linear = **51** Obs per group: min = **10**
nonlinear = **0** avg = **12.8642**
total = **51** max = **13**

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_remu	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_remu						
L1.	.5802344	.1469809	3.95	0.000	.2921571	.8683117
L2.	.0297254	.0908906	0.33	0.744	-.1484169	.2078676
elec_t						
--.	-.0233044	.0214229	-1.09	0.277	-.0652925	.0186838
L1.	.0220638	.0179362	1.23	0.219	-.0130905	.0572182
Age	.0000914	.0029006	0.03	0.975	-.0055937	.0057766
sex						
Male	-.0007082	.0602122	-0.01	0.991	-.118722	.1173055
k_12centers	-.0003576	.000568	-0.63	0.529	-.0014708	.0007557
gdp	2.33e-08	4.75e-09	4.91	0.000	1.40e-08	3.26e-08
interest_rate	-.0012279	.0061241	-0.20	0.841	-.0132309	.0107751
debt	-.0080474	.0019803	-4.06	0.000	-.0119287	-.0041662
deficit	5.49e-08	3.59e-08	1.53	0.126	-1.54e-08	1.25e-07
party_type						
National	.2933883	.2566714	1.14	0.253	-.2096785	.7964551
Provincial	-1.219457	2.303282	-0.53	0.596	-5.733808	3.294894
win_margin	-.0016756	.0044844	-0.37	0.709	-.0104648	.0071137
abstentionism	.0012247	.0056615	0.22	0.829	-.0098717	.0123211
pop_share014	.0104338	.0139638	0.75	0.455	-.0169348	.0378023
pop_share65plus	.0652262	.0219969	2.97	0.003	.0221131	.1083394
_cons	2.899941	1.859144	1.56	0.119	-.7439146	6.543798

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.1_rpc_remu L2.L2.1_rpc_remu L3.L2.1_rpc_remu L1.Age L2.Age L3.Age
L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers L3.k_12centers
L1.gdp L2.gdp L3.gdp L3.interest_rate L1.debt L2.debt L3.debt L1.deficit
L2.deficit L3.deficit L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type
L1.3.party_type L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin
L3.win_margin L1.abstentionism L2.abstentionism L3.abstentionism
L1.pop_share014 L2.pop_share014 L3.pop_share014 L1.pop_share65plus
L2.pop_share65plus L3.pop_share65plus

2, model(level):

D.L.1_rpc_remu D.L2.1_rpc_remu D.elec_t D.Age D.2.sex D.k_12centers D.gdp
D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(35) = 50.8371
 Prob > chi2 = 0.0407

2-step moment functions, 3-step weighting matrix chi2(35) = 68.3219
 Prob > chi2 = 0.0006

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -2.8406 Prob > |z| = 0.0045
 H0: no autocorrelation of order 2: z = -0.2400 Prob > |z| = 0.8104

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .02586717
 Step 2 f(b) = .72936472

Fitting reduced model 2:

Step 1 f(b) = .54899528

Group variable: **mun_id** Number of obs = 1042
 Time variable: **year** Number of groups = 81

Moment conditions: linear = 61 Obs per group: min = 10
 nonlinear = 0 avg = 12.8642
 total = 61 max = 13

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_remu	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_remu						
L1.	.5781965	.1241067	4.66	0.000	.3349518	.8214412
L2.	.005074	.0918272	0.06	0.956	-.174904	.185052
elec_t						
L1.	-.0275118	.0210196	-1.31	0.191	-.0687095	.013686
L2.	.0199551	.0194638	1.03	0.305	-.0181933	.0581034
Age	.0006067	.0024292	0.25	0.803	-.0041545	.005368
sex						
Male	-.0212397	.0565162	-0.38	0.707	-.1320093	.0895299
k_12centers	-.0003469	.000445	-0.78	0.436	-.0012192	.0005253
gdp	2.41e-08	4.66e-09	5.18	0.000	1.50e-08	3.33e-08
interest_rate	.0014419	.0055448	0.26	0.795	-.0094256	.0123094
debt	-.0081286	.0018677	-4.35	0.000	-.0117892	-.0044679
deficit	7.21e-08	3.36e-08	2.14	0.032	6.19e-09	1.38e-07
party_type						
National	.3925677	.2562129	1.53	0.125	-.1096003	.8947357
Provincial	-.2975449	1.387188	-0.21	0.830	-3.016383	2.421294
win_margin	-.0006575	.0028217	-0.23	0.816	-.0061878	.0048729
abstentionism	.0023465	.0057447	0.41	0.683	-.008913	.013606
pop_share014	.0042631	.0125933	0.34	0.735	-.0204193	.0289456
pop_share65plus	.0598625	.0228582	2.62	0.009	.0150612	.1046637
_cons	3.155957	1.675357	1.88	0.060	-.127682	6.439596

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.1 rpc_remu L2.L2.1 rpc_remu L3.L2.1 rpc_remu L4.L2.1 rpc_remu L1.Age
 L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex L4.2.sex L1.k_12centers
 L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp L2.gdp L3.gdp L4.gdp
 L1.debt L3.debt L4.debt L1.deficit L2.deficit L3.deficit L4.deficit
 L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L4.2bn.party_type
 L1.3.party_type L2.3.party_type L3.3.party_type L4.3.party_type
 L1.win_margin L2.win_margin L3.win_margin L4.win_margin L1.abstentionism
 L2.abstentionism L3.abstentionism L4.abstentionism L1.pop_share014
 L2.pop_share014 L3.pop_share014 L4.pop_share014 L1.pop_share65plus
 L2.pop_share65plus L3.pop_share65plus L4.pop_share65plus

2, model(level):

D.L.1_rpc_remu D.L2.1_rpc_remu D.Age D.2.sex D.k_12centers D.gdp
D.interest_rate D.debt D.deficit
3, model(level):
_cons

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(45) = 59.0785
Prob > chi2 = 0.0776

2-step moment functions, 3-step weighting matrix chi2(45) = 72.3865
Prob > chi2 = 0.0059

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -3.5247 Prob > |z| = 0.0004
H0: no autocorrelation of order 2: z = 0.2081 Prob > |z| = 0.8351

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .02556177
Step 2 f(b) = .16974815

Fitting reduced model 2:

Step 1 f(b) = 4.769e-20

Group variable: **mun_id** Number of obs = 1125
Time variable: **year** Number of groups = 81

Moment conditions: linear = 24 Obs per group: min = 11
 nonlinear = 0 avg = 13.88889
 total = 24 max = 14

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_serv	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_serv						
L1.	.6445382	.1012365	6.37	0.000	.4461184	.842958
elec_t	.0207842	.0341811	0.61	0.543	-.0462095	.0877778
Age	.0052047	.0044592	1.17	0.243	-.0035351	.0139445
sex						
Male	-.0732406	.0983709	-0.74	0.457	-.2660441	.1195629
k_12centers	-.0007258	.0011326	-0.64	0.522	-.0029457	.001494
gdp	1.50e-08	7.12e-09	2.10	0.036	1.01e-09	2.89e-08
interest_rate	-.0121311	.0103832	-1.17	0.243	-.0324819	.0082196
debt	-.0024162	.003608	-0.67	0.503	-.0094877	.0046552
deficit	-1.95e-08	7.03e-08	-0.28	0.781	-1.57e-07	1.18e-07
party_type						
National	-.0075296	.4324935	-0.02	0.986	-.8552014	.8401422
Provincial	.0640929	4.998654	0.01	0.990	-9.733089	9.861275
win_margin	-.0165136	.0059087	-2.79	0.005	-.0280946	-.0049327
abstentionism	.0206138	.0099783	2.07	0.039	.0010568	.0401709
pop_share014	.0220732	.0149261	1.48	0.139	-.0071813	.0513278
pop_share65plus	.0941156	.065569	1.44	0.151	-.0343973	.2226285
_cons	.6450926	.7373289	0.87	0.382	-.8000454	2.090231

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L.1_rpc_serv L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
L1.abstentionism L1.pop_share014 L1.pop_share65plus

2, model(level):

D.L.1_rpc_serv D.elec_t D.Age D.2.sex D.k_12centers D.gdp D.interest_rate
D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(10) = **13.7496**
Prob > chi2 = **0.1847**

2-step moment functions, 3-step weighting matrix chi2(10) = **14.5494**
Prob > chi2 = **0.1494**

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-4.2655** Prob > |z| = **0.0000**
H0: no autocorrelation of order 2: z = **1.1400** Prob > |z| = **0.2543**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.07181823**
Step 2 f(b) = **.4946617**

Fitting reduced model 2:

Step 1 f(b) = **.21827639**

Group variable: **mun_id** Number of obs = **1125**
Time variable: **year** Number of groups = **81**

Moment conditions: linear = **38** Obs per group: min = **11**
 nonlinear = **0** avg = **13.88889**
 total = **38** max = **14**

(Std. err. adjusted for **81** clusters in **mun_id**)

	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_serv						
l_rpc_serv L1.	.544776	.1458283	3.74	0.000	.2589577	.8305943
elec_t	.002669	.0364714	0.07	0.942	-.0688137	.0741518
Age	-.0002305	.0042026	-0.05	0.956	-.0084674	.0080064
sex						
Male	.0089737	.0839989	0.11	0.915	-.155661	.1736084
k_12centers	-.0022007	.0009728	-2.26	0.024	-.0041073	-.0002941
gdp	3.13e-08	7.57e-09	4.14	0.000	1.65e-08	4.62e-08
interest_rate	-.0169972	.0143603	-1.18	0.237	-.0451429	.0111484
debt	-.0038358	.0031747	-1.21	0.227	-.0100581	.0023864
deficit	6.41e-09	5.94e-08	0.11	0.914	-1.10e-07	1.23e-07
party_type						
National	.183914	.6085215	0.30	0.762	-1.008766	1.376594
Provincial	1.549552	3.656698	0.42	0.672	-5.617445	8.716549
win_margin	-.0051805	.0076581	-0.68	0.499	-.0201902	.0098291
abstentionism	.0015244	.0123742	0.12	0.902	-.0227287	.0257775
pop_share014	.0438622	.0175883	2.49	0.013	.0093897	.0783347
pop_share65plus	.0211128	.0470865	0.45	0.654	-.0711751	.1134006
_cons	2.559389	1.3715	1.87	0.062	-.1287025	5.24748

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L1_rpc_serv L2.L1_rpc_serv L1.Age L2.Age L1.2.sex L2.2.sex
L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
L2.pop_share014 L1.pop_share65plus L2.pop_share65plus

2, model(level):

D.L1_rpc_serv D.elec_t D.Age D.2.sex D.k_12centers D.gdp D.interest_rate
D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(24) = 40.0676
Prob > chi2 = 0.0210

2-step moment functions, 3-step weighting matrix chi2(24) = 51.1107
Prob > chi2 = 0.0010

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -4.0562 Prob > |z| = 0.0000
H0: no autocorrelation of order 2: z = 1.2133 Prob > |z| = 0.2250

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .07967859
Step 2 f(b) = .60748982

Fitting reduced model 2:

Step 1 f(b) = .50019426

Group variable: **mun_id** Number of obs = 1125
Time variable: **year** Number of groups = 81

Moment conditions: linear = 51 Obs per group: min = 11
 nonlinear = 0 avg = 13.88889
 total = 51 max = 14

(Std. err. adjusted for 81 clusters in **mun_id**)

	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_serv						
l_rpc_serv						
L1.	.6117058	.0981842	6.23	0.000	.4192682	.8041433
elec_t	.0075146	.0337547	0.22	0.824	-.0586434	.0736726
Age	-.002252	.0041482	-0.54	0.587	-.0103824	.0058783
sex						
Male	.0431423	.0708334	0.61	0.542	-.0956887	.1819733
k_12centers	-.0017158	.0007144	-2.40	0.016	-.0031161	-.0003156
gdp	2.74e-08	7.29e-09	3.76	0.000	1.31e-08	4.17e-08
interest_rate	-.0173792	.0098344	-1.77	0.077	-.0366543	.0018959
debt	-.0032302	.0027467	-1.18	0.240	-.0086135	.0021532
deficit	1.18e-08	5.12e-08	0.23	0.818	-8.86e-08	1.12e-07
party_type						
National	.2022038	.5783425	0.35	0.727	-.9313266	1.335734
Provincial	.1896369	2.593282	0.07	0.942	-4.893103	5.272377
win_margin	-.0034016	.0052364	-0.65	0.516	-.0136648	.0068616
abstentionism	-.0012992	.0099054	-0.13	0.896	-.0207134	.0181149
pop_share014	.0363075	.0133698	2.72	0.007	.0101031	.062512
pop_share65plus	-.0039025	.0458758	-0.09	0.932	-.0938174	.0860123
_cons	2.567568	1.128603	2.27	0.023	.3555459	4.77959

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L1_rpc_serv L2.L1_rpc_serv L3.L1_rpc_serv L1.Age L2.Age L3.Age
L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers L3.k_12centers
L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate L3.interest_rate
L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit L1.2bn.party_type
L2.2bn.party_type L3.2bn.party_type L1.3.party_type L2.3.party_type
L3.3.party_type L1.win_margin L2.win_margin L3.win_margin L1.abstentionism
L2.abstentionism L3.abstentionism L1.pop_share014 L2.pop_share014
L3.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus

2, model(level):

D.L1_rpc_serv D.Age D.2.sex D.k_12centers D.gdp D.interest_rate D.debt

```
D.deficit
3, model(level):
    _cons
```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

```
2-step moment functions, 2-step weighting matrix      chi2(37)      =    49.2067
                                                         Prob > chi2    =    0.0864
```

```
2-step moment functions, 3-step weighting matrix      chi2(37)      =    54.6358
                                                         Prob > chi2    =    0.0309
```

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = **-4.4830** Prob > |z| = **0.0000**
H0: no autocorrelation of order 2: z = **1.2507** Prob > |z| = **0.2110**

Generalized method of moments estimation

```
Fitting full model:
Step 1          f(b) = .08762459
Step 2          f(b) = .67190342
```

```
Fitting reduced model 2:
Step 1          f(b) = .56264919
```

```
Group variable: mun_id          Number of obs      =    1125
Time variable: year            Number of groups   =     81

Moment conditions:      linear =     61      Obs per group:   min =     11
                      nonlinear =    0      avg =    13.88889
                      total =     61      max =     14
```

(Std. err. adjusted for 81 clusters in mun_id)

l_rpc_serv	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_serv						
L1.	.6324556	.0890007	7.11	0.000	.4580175	.8068937
elec_t	.0249099	.0279446	0.89	0.373	-.0298606	.0796804
Age	-.00261	.0033943	-0.77	0.442	-.0092628	.0040427
sex						
Male	.0414649	.0698646	0.59	0.553	-.0954672	.178397
k_12centers	-.0018763	.0006474	-2.90	0.004	-.0031453	-.0006073
gdp	2.44e-08	6.52e-09	3.74	0.000	1.16e-08	3.72e-08
interest_rate	-.0221486	.0091817	-2.41	0.016	-.0401443	-.0041528
debt	-.0029678	.0026571	-1.12	0.264	-.0081756	.00224
deficit	-2.33e-09	4.57e-08	-0.05	0.959	-9.18e-08	8.72e-08
party_type						
National	.1589665	.3779837	0.42	0.674	-.581868	.8998011
Provincial	.3546937	2.103547	0.17	0.866	-3.768182	4.477569
win_margin	-.0019044	.0038393	-0.50	0.620	-.0094292	.0056204
abstentionism	-.0030351	.0074584	-0.41	0.684	-.0176532	.0115831
pop_share014	.036047	.012086	2.98	0.003	.0123588	.0597352
pop_share65plus	-.0110486	.044308	-0.25	0.803	-.0978907	.0757935
_cons	2.701656	.9727974	2.78	0.005	.7950078	4.608304

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
L1.L1.l_rpc_serv L2.L1.l_rpc_serv L3.L1.l_rpc_serv L4.L1.l_rpc_serv L1.Age
L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex L4.2.sex L1.k_12centers
L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp L2.gdp L3.gdp L4.gdp
L4.interest_rate L2.debt L3.debt L4.debt L1.deficit L2.deficit L3.deficit
L4.deficit L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type
L4.2bn.party_type L1.3.party_type L2.3.party_type L3.3.party_type
L4.3.party_type L1.win_margin L2.win_margin L3.win_margin L4.win_margin
L1.abstentionism L2.abstentionism L3.abstentionism L4.abstentionism
```

```

L1.pop_share014 L2.pop_share014 L3.pop_share014 L4.pop_share014
L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus L4.pop_share65plus
2, model(level):
  D.L1_rpc_serv D.Age D.2.sex D.k_12centers D.gdp D.interest_rate D.debt
  D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(47) = **54.4242**
Prob > chi2 = **0.2128**

2-step moment functions, 3-step weighting matrix chi2(47) = **61.0098**
Prob > chi2 = **0.0824**

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = **-4.5770** Prob > |z| = **0.0000**
H0: no autocorrelation of order 2: z = **1.2459** Prob > |z| = **0.2128**

Generalized method of moments estimation

Fitting full model:
Step 1 f(b) = **.0188871**
Step 2 f(b) = **.22298604**

Fitting reduced model 2:
Step 1 f(b) = **2.141e-15**

Group variable: **mun_id** Number of obs = **1042**
Time variable: **year** Number of groups = **81**

Moment conditions: linear = **25** Obs per group: min = **10**
 nonlinear = **0** avg = **12.8642**
 total = **25** max = **13**

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_serv	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_serv						
L1.	.7021012	.0823171	8.53	0.000	.5407626	.8634398
L2.	.1937656	.1148108	1.69	0.091	-.0312595	.4187907
elec_t	.0257513	.0393188	0.65	0.513	-.0513121	.1028148
Age	.0000652	.0056157	0.01	0.991	-.0109413	.0110718
sex						
Male	-.0229857	.1010511	-0.23	0.820	-.2210421	.1750708
k_12centers	-.0010226	.0007785	-1.31	0.189	-.0025483	.0005031
gdp	2.48e-08	1.28e-08	1.94	0.052	-2.62e-10	4.99e-08
interest_rate	-.0231193	.0124318	-1.86	0.063	-.0474851	.0012465
debt	-.0140337	.005427	-2.59	0.010	-.0246704	-.003397
deficit	-2.44e-08	5.66e-08	-0.43	0.666	-1.35e-07	8.65e-08
party_type						
National	.0274868	.452837	0.06	0.952	-.8600574	.9150311
Provincial	4.264586	3.2161	1.33	0.185	-2.038855	10.56803
win_margin	-.0005499	.0095199	-0.06	0.954	-.0192085	.0181088
abstentionism	.0062447	.0140981	0.44	0.658	-.0213872	.0338765
pop_share014	.0354467	.0179016	1.98	0.048	.0003601	.0705332
pop_share65plus	.067714	.0393402	1.72	0.085	-.0093914	.1448194
_cons	-.3897493	1.233833	-0.32	0.752	-2.808018	2.028519

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L2.l_rpc_serv L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
  L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
  L1.abstentionism L1.pop_share014 L1.pop_share65plus

```

```

2, model(level):
  D.L1_rpc_serv D.L2.1_rpc_serv D.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(10)    =    18.0619
                                                         Prob > chi2 =    0.0539

```

```

2-step moment functions, 3-step weighting matrix      chi2(10)    =    29.6912
                                                         Prob > chi2 =    0.0010

```

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = -4.1318 Prob > |z| = 0.0000
H0: no autocorrelation of order 2: z = -0.9855 Prob > |z| = 0.3244

Generalized method of moments estimation

```

Fitting full model:
Step 1          f(b) =    .04402137
Step 2          f(b) =    .41398958

```

```

Fitting reduced model 2:
Step 1          f(b) =    .1132368

```

```

Group variable: mun_id          Number of obs      =    1042
Time variable:  year            Number of groups   =     81

```

```

Moment conditions:      linear =     39      Obs per group:   min =     10
                       nonlinear =    0      avg =    12.8642
                       total =     39      max =     13

```

(Std. err. adjusted for 81 clusters in mun_id)

l_rpc_serv	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_serv						
L1.	.6580661	.0896729	7.34	0.000	.4823103	.8338218
L2.	.1842288	.128542	1.43	0.152	-.0677089	.4361665
elec_t	-.0130608	.0355965	-0.37	0.714	-.0828287	.0567071
Age	.0006597	.0037669	0.18	0.861	-.0067232	.0080427
sex						
Male	-.001742	.0617735	-0.03	0.978	-.122816	.1193319
k_12centers	-.0014111	.0006818	-2.07	0.038	-.0027473	-.0000749
gdp	3.63e-08	8.38e-09	4.33	0.000	1.99e-08	5.27e-08
interest_rate	-.0281767	.0110587	-2.55	0.011	-.0498514	-.006502
debt	-.0152516	.0049323	-3.09	0.002	-.0249186	-.0055845
deficit	4.26e-10	5.82e-08	0.01	0.994	-1.14e-07	1.14e-07
party_type						
National	-.1864003	.2721511	-0.68	0.493	-.7198066	.3470059
Provincial	2.710497	3.017605	0.90	0.369	-3.203901	8.624895
win_margin	-.0002558	.0043194	-0.06	0.953	-.0087217	.0082101
abstentionism	.0077974	.0078257	1.00	0.319	-.0075407	.0231355
pop_share014	.0348074	.0150832	2.31	0.021	.0052449	.0643699
pop_share65plus	.0355928	.0354295	1.00	0.315	-.0338477	.1050333
_cons	.2990253	1.372981	0.22	0.828	-2.391969	2.990019

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L2.1_rpc_serv L2.L2.1_rpc_serv L1.Age L2.Age L1.2.sex L2.2.sex
  L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
  L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
  L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
  L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014

```



```

L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
2, model(level):
  D.L1_rpc_serv D.L2.1_rpc_serv D.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(24) = 33.5332
Prob > chi2 = 0.0933

2-step moment functions, 3-step weighting matrix chi2(24) = 43.9825
Prob > chi2 = 0.0077

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = -3.9853 Prob > |z| = 0.0001
H0: no autocorrelation of order 2: z = -0.5838 Prob > |z| = 0.5594

Generalized method of moments estimation

Fitting full model:
Step 1 f(b) = .05355008
Step 2 f(b) = .55609801

Fitting reduced model 2:
Step 1 f(b) = .42696707

Group variable: **mun_id** Number of obs = 1042
Time variable: **year** Number of groups = 81

Moment conditions: linear = 51 Obs per group: min = 10
 nonlinear = 0 avg = 12.8642
 total = 51 max = 13

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_serv	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_serv						
L1.	.6338079	.0761459	8.32	0.000	.4845648	.7830511
L2.	.1652922	.1067334	1.55	0.121	-.0439015	.3744858
elec_t	-.0127022	.0384695	-0.33	0.741	-.088101	.0626965
Age	-.0015482	.0031423	-0.49	0.622	-.0077071	.0046107
sex						
Male	-.0196803	.0725585	-0.27	0.786	-.1618922	.1225317
k_12centers	-.0010899	.0006349	-1.72	0.086	-.0023343	.0001546
gdp	3.35e-08	7.57e-09	4.43	0.000	1.87e-08	4.83e-08
interest_rate	-.0261284	.0106974	-2.44	0.015	-.047095	-.0051618
debt	-.016274	.0046926	-3.47	0.001	-.0254712	-.0070767
deficit	3.10e-08	6.10e-08	0.51	0.611	-8.85e-08	1.50e-07
party_type						
National	.0356197	.4689663	0.08	0.939	-.8835374	.9547768
Provincial	2.299279	3.050842	0.75	0.451	-3.680261	8.27882
win_margin	-.0004619	.0038874	-0.12	0.905	-.0080811	.0071573
abstentionism	.0037658	.0070769	0.53	0.595	-.0101047	.0176364
pop_share014	.0261643	.0144596	1.81	0.070	-.002176	.0545045
pop_share65plus	.0598391	.0357726	1.67	0.094	-.0102739	.129952
_cons	1.031474	1.263225	0.82	0.414	-1.444401	3.507348

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L2.1_rpc_serv L2.L2.1_rpc_serv L3.L2.1_rpc_serv L1.Age L2.Age L3.Age
  L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers L3.k_12centers
  L1.gdp L2.gdp L3.gdp L3.interest_rate L1.debt L2.debt L3.debt L1.deficit
  L2.deficit L3.deficit L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type

```

```

L1.3.party_type L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin
L3.win_margin L1.abstentionism L2.abstentionism L3.abstentionism
L1.pop_share014 L2.pop_share014 L3.pop_share014 L1.pop_share65plus
L2.pop_share65plus L3.pop_share65plus
2, model(level):
D.L1.rpc_serv D.L2.1_rpc_serv D.elec_t D.Age D.2.sex D.k_12centers D.gdp
D.interest_rate D.debt D.deficit
3, model(level):
_cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(36)      =    45.0439
                                                         Prob > chi2    =    0.1435

```

```

2-step moment functions, 3-step weighting matrix      chi2(36)      =    52.0269
                                                         Prob > chi2    =    0.0409

```

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = **-4.1687** Prob > |z| = **0.0000**
H0: no autocorrelation of order 2: z = **-0.5808** Prob > |z| = **0.5614**

Generalized method of moments estimation

```

Fitting full model:
Step 1          f(b) =  .05975917
Step 2          f(b) =  .63304711

```

```

Fitting reduced model 2:
Step 1          f(b) =  .4931442

```

```

Group variable: mun_id          Number of obs      =    1042
Time variable: year            Number of groups   =     81

```

```

Moment conditions:      linear =    61      Obs per group:   min =    10
                        nonlinear =    0      avg =   12.8642
                        total =    61      max =    13

```

(Std. err. adjusted for 81 clusters in mun_id)

l_rpc_serv	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_serv						
L1.	.6276337	.0585165	10.73	0.000	.5129436	.7423238
L2.	.1601531	.0836335	1.91	0.056	-.0037655	.3240717
elec_t	-.0221283	.039459	-0.56	0.575	-.0994666	.05521
Age	-.0004348	.0026462	-0.16	0.869	-.0056212	.0047517
sex						
Male	-.0248148	.0677607	-0.37	0.714	-.1576233	.1079936
k_12centers	-.0010351	.0005074	-2.04	0.041	-.0020295	-.0000408
gdp	3.37e-08	7.52e-09	4.49	0.000	1.90e-08	4.85e-08
interest_rate	-.028249	.010309	-2.74	0.006	-.0484542	-.0080438
debt	-.0159567	.0042705	-3.74	0.000	-.0243267	-.0075867
deficit	3.90e-08	5.92e-08	0.66	0.510	-7.70e-08	1.55e-07
party_type						
National	-.0287298	.3025218	-0.09	0.924	-.6216616	.564202
Provincial	1.708577	2.637423	0.65	0.517	-3.460677	6.877832
win_margin	-.0008481	.003855	-0.22	0.826	-.0084037	.0067075
abstentionism	.0040541	.0080308	0.50	0.614	-.0116861	.0197942
pop_share014	.027949	.011882	2.35	0.019	.0046607	.0512372
pop_share65plus	.0582676	.0371614	1.57	0.117	-.0145673	.1311026
_cons	1.091913	1.058334	1.03	0.302	-.9823836	3.16621

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L2.1_rpc_serv L2.L2.1_rpc_serv L3.L2.1_rpc_serv L4.L2.1_rpc_serv L1.Age

```

```

L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex L4.2.sex L1.k_12centers
L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp L2.gdp L3.gdp L4.gdp
L1.debt L3.debt L4.debt L1.deficit L2.deficit L3.deficit L4.deficit
L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L4.2bn.party_type
L1.3.party_type L2.3.party_type L3.3.party_type L4.3.party_type
L1.win_margin L2.win_margin L3.win_margin L4.win_margin L1.abstentionism
L2.abstentionism L3.abstentionism L4.abstentionism L1.pop_share014
L2.pop_share014 L3.pop_share014 L4.pop_share014 L1.pop_share65plus
L2.pop_share65plus L3.pop_share65plus L4.pop_share65plus
2, model(level):
  D.L1_rpc_serv D.L2.1_rpc_serv D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(46)      =    51.2768
                                                        Prob > chi2   =    0.2745

2-step moment functions, 3-step weighting matrix      chi2(46)      =    59.9156
                                                        Prob > chi2   =    0.0817

```

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = -4.8364 Prob > |z| = 0.0000
H0: no autocorrelation of order 2: z = -0.8310 Prob > |z| = 0.4060

Generalized method of moments estimation

```

Fitting full model:
Step 1      f(b) =    .02366739
Step 2      f(b) =    .15510481

```

```

Fitting reduced model 2:
Step 1      f(b) =    1.234e-19

```

```

Group variable: mun_id      Number of obs      =    1125
Time variable: year        Number of groups   =    81

Moment conditions:      linear =    25      Obs per group:   min =    11
                        nonlinear =    0      avg =    13.88889
                        total =    25      max =    14

```

(Std. err. adjusted for 81 clusters in mun_id)

l_rpc_serv	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_serv						
L1.	.6384188	.1028404	6.21	0.000	.4368553	.8399823
elec_t						
--.	-.0810216	.0485462	-1.67	0.095	-.1761704	.0141271
L1.	-.1195003	.0456418	-2.62	0.009	-.2089566	-.0300439
Age	.005803	.0043965	1.32	0.187	-.0028139	.0144199
sex						
Male	-.0804452	.092916	-0.87	0.387	-.2625572	.1016669
k_12centers	-.0005664	.0011109	-0.51	0.610	-.0027438	.0016109
gdp	1.81e-08	6.92e-09	2.62	0.009	4.54e-09	3.17e-08
interest_rate	-.0381541	.0148561	-2.57	0.010	-.0672716	-.0090367
debt	-.0066461	.0039194	-1.70	0.090	-.0143281	.0010358
deficit	8.24e-08	8.36e-08	0.99	0.324	-8.15e-08	2.46e-07
party_type						
National	.0319684	.4424477	0.07	0.942	-.8352131	.89915
Provincial	-.0873106	5.122385	-0.02	0.986	-10.127	9.95238
win_margin	-.016927	.0058801	-2.88	0.004	-.0284517	-.0054023
abstentionism	.0187248	.0078697	2.38	0.017	.0033005	.0341492

pop_share014	.0139994	.0152657	0.92	0.359	-.0159207	.0439196
pop_share65plus	.0997624	.0509085	1.96	0.050	-.0000165	.1995413
_cons	1.401335	.833252	1.68	0.093	-.2318092	3.034479

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L1_rpc_serv L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
  L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
  L1.abstentionism L1.pop_share014 L1.pop_share65plus
2, model(level):
  D.L1_rpc_serv D.elec_t D.L.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(10) = 12.5635
 Prob > chi2 = 0.2491

2-step moment functions, 3-step weighting matrix chi2(10) = 13.6311
 Prob > chi2 = 0.1905

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -4.2924 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = 1.1338 Prob > |z| = 0.2569

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .05836338

Step 2 f(b) = .54485385

Fitting reduced model 2:

Step 1 f(b) = .11546849

Group variable: **mun_id** Number of obs = 1125

Time variable: **year** Number of groups = 81

Moment conditions: linear = 39 Obs per group: min = 11
 nonlinear = 0 avg = 13.88889
 total = 39 max = 14

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_serv	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_serv						
L1.	.5705598	.1447566	3.94	0.000	.2868421	.8542775
elec_t						
--.	-.0878933	.0472551	-1.86	0.063	-.1805117	.004725
L1.	-.1279633	.0484162	-2.64	0.008	-.2228573	-.0330692
Age	.0014065	.0040161	0.35	0.726	-.0064648	.0092779
sex						
Male	.004705	.0886624	0.05	0.958	-.1690701	.1784802
k_12centers	-.00151	.0011615	-1.30	0.194	-.0037865	.0007666
gdp	2.79e-08	8.05e-09	3.47	0.001	1.21e-08	4.37e-08
interest_rate	-.0432034	.0185109	-2.33	0.020	-.0794842	-.0069226
debt	-.0088707	.0036336	-2.44	0.015	-.0159925	-.0017489
deficit	1.33e-07	7.25e-08	1.83	0.067	-9.19e-09	2.75e-07
party_type						
National	.2529635	.6368705	0.40	0.691	-.9952798	1.501207
Provincial	.6246172	3.926551	0.16	0.874	-7.071281	8.320515
win_margin	-.0074521	.0081463	-0.91	0.360	-.0234185	.0085144
abstentionism	.0038091	.0107608	0.35	0.723	-.0172817	.0248999

pop_share014	.0235002	.0185133	1.27	0.204	-.0127851	.0597856
pop_share65plus	.0602815	.0493898	1.22	0.222	-.0365208	.1570838
_cons	2.930555	1.247661	2.35	0.019	.4851835	5.375926

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L1_rpc_serv L2.L1_rpc_serv L1.Age L2.Age L1.2.sex L2.2.sex
  L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
  L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
  L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
  L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
  L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
2, model(level):
  D.L1_rpc_serv D.elec_t D.L.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(24) = 44.1332
 Prob > chi2 = 0.0074

2-step moment functions, 3-step weighting matrix chi2(24) = 47.7884
 Prob > chi2 = 0.0027

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -4.0852 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = 1.1463 Prob > |z| = 0.2517

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .06867884

Step 2 f(b) = .56750289

Fitting reduced model 2:

Step 1 f(b) = .42099741

Group variable: mun_id Number of obs = 1125

Time variable: year Number of groups = 81

Moment conditions: linear = 51 Obs per group: min = 11
 nonlinear = 0 avg = 13.88889
 total = 51 max = 14

(Std. err. adjusted for 81 clusters in mun_id)

l_rpc_serv	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_serv						
L1.	.6036605	.0942399	6.41	0.000	.4189538	.7883672
elec_t						
--	-.0669331	.0393769	-1.70	0.089	-.1441105	.0102443
L1.	-.1174637	.0369988	-3.17	0.001	-.1899801	-.0449473
Age	-.0012738	.0039656	-0.32	0.748	-.0090463	.0064987
sex						
Male	.0352643	.0687785	0.51	0.608	-.099539	.1700677
k_12centers	-.0012264	.0007316	-1.68	0.094	-.0026603	.0002076
gdp	2.45e-08	7.24e-09	3.38	0.001	1.03e-08	3.87e-08
interest_rate	-.0394205	.0135525	-2.91	0.004	-.065983	-.0128581
debt	-.0077433	.0030671	-2.52	0.012	-.0137548	-.0017319
deficit	1.19e-07	6.02e-08	1.97	0.049	5.30e-10	2.37e-07
party_type						
National	.4812857	.7073426	0.68	0.496	-.9050802	1.867652
Provincial	-.4941778	2.516016	-0.20	0.844	-5.425478	4.437123

win_margin	-.0033382	.0052269	-0.64	0.523	-.0135827	.0069063
abstentionism	-.0023247	.0093592	-0.25	0.804	-.0206684	.016019
pop_share014	.0242732	.0128888	1.88	0.060	-.0009884	.0495348
pop_share65plus	.0463791	.0454644	1.02	0.308	-.0427296	.1354878
_cons	2.913484	1.112469	2.62	0.009	.7330856	5.093882

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L1_rpc_serv L2.L1_rpc_serv L3.L1_rpc_serv L1.Age L2.Age L3.Age
  L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers L3.k_12centers
  L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate L3.interest_rate
  L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit L1.2bn.party_type
  L2.2bn.party_type L3.2bn.party_type L1.3.party_type L2.3.party_type
  L3.3.party_type L1.win_margin L2.win_margin L3.win_margin L1.abstentionism
  L2.abstentionism L3.abstentionism L1.pop_share014 L2.pop_share014
  L3.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus
2, model(level):
  D.L1_rpc_serv D.Age D.2.sex D.k_12centers D.gdp D.interest_rate D.debt
  D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(36) = **45.9677**
 Prob > chi2 = **0.1234**

2-step moment functions, 3-step weighting matrix chi2(36) = **49.0097**
 Prob > chi2 = **0.0727**

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-4.4490** Prob > |z| = **0.0000**
 H0: no autocorrelation of order 2: z = **1.1635** Prob > |z| = **0.2446**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.07626565**
 Step 2 f(b) = **.62330216**

Fitting reduced model 2:

Step 1 f(b) = **.55664529**

Group variable: **mun_id** Number of obs = **1125**
 Time variable: **year** Number of groups = **81**

Moment conditions: linear = **61** Obs per group: min = **11**
 nonlinear = **0** avg = **13.88889**
 total = **61** max = **14**

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_serv	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_serv						
L1.	.628587	.0867895	7.24	0.000	.4584828	.7986912
elec_t						
--.	-.0523085	.0377228	-1.39	0.166	-.1262438	.0216267
L1.	-.11794	.0356475	-3.31	0.001	-.1878079	-.0480721
Age	-.0010048	.003277	-0.31	0.759	-.0074276	.005418
sex						
Male	.0318152	.0656693	0.48	0.628	-.0968942	.1605246
k_12centers	-.0012626	.0006661	-1.90	0.058	-.0025682	.0000431
gdp	2.22e-08	6.33e-09	3.50	0.000	9.77e-09	3.46e-08
interest_rate	-.0428771	.0123038	-3.48	0.000	-.0669922	-.018762
debt	-.0073483	.0030407	-2.42	0.016	-.0133079	-.0013886

deficit	1.05e-07	5.99e-08	1.76	0.079	-1.21e-08	2.23e-07
party_type						
National	.4394243	.5261822	0.84	0.404	-.591874	1.470723
Provincial	-.3329616	2.014634	-0.17	0.869	-4.281572	3.615649
win_margin	-.0019237	.0037927	-0.51	0.612	-.0093572	.0055099
abstentionism	-.0033904	.0073341	-0.46	0.644	-.0177651	.0109842
pop_share014	.0234862	.0127237	1.85	0.065	-.0014519	.0484243
pop_share65plus	.0355096	.0422251	0.84	0.400	-.0472501	.1182692
_cons	2.925467	.9116226	3.21	0.001	1.13872	4.712215

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L1_rpc_serv L2.L1_rpc_serv L3.L1_rpc_serv L4.L1_rpc_serv L1.Age
  L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex L4.2.sex L1.k_12centers
  L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp L2.gdp L3.gdp L4.gdp
  L4.interest_rate L2.debt L3.debt L4.debt L1.deficit L2.deficit L3.deficit
  L4.deficit L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type
  L4.2bn.party_type L1.3.party_type L2.3.party_type L3.3.party_type
  L4.3.party_type L1.win_margin L2.win_margin L3.win_margin L4.win_margin
  L1.abstentionism L2.abstentionism L3.abstentionism L4.abstentionism
  L1.pop_share014 L2.pop_share014 L3.pop_share014 L4.pop_share014
  L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus L4.pop_share65plus
2, model(level):
  D.L1_rpc_serv D.Age D.2.sex D.k_12centers D.gdp D.interest_rate D.debt
  D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

```
2-step moment functions, 2-step weighting matrix      chi2(46)      =      50.4875
                                                         Prob > chi2    =      0.3007
```

```
2-step moment functions, 3-step weighting matrix      chi2(46)      =      57.0687
                                                         Prob > chi2    =      0.1270
```

Arellano-Bond test for autocorrelation of the first-differenced residuals

```
H0: no autocorrelation of order 1:      z =      -4.5810      Prob > |z|    =      0.0000
H0: no autocorrelation of order 2:      z =       1.1839      Prob > |z|    =      0.2365
```

Generalized method of moments estimation

Fitting full model:

```
Step 1      f(b) = .02030644
Step 2      f(b) = .2287195
```

```
Group variable: mun_id      Number of obs      =      1042
Time variable: year      Number of groups    =      81
```

```
Moment conditions:      linear =      26      Obs per group:      min =      10
                        nonlinear =      0      avg =      12.8642
                        total =      26      max =      13
```

(Std. err. adjusted for 81 clusters in mun_id)

l_rpc_serv	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_serv						
L1.	.6931632	.0809495	8.56	0.000	.5345051	.8518213
L2.	.1888261	.1220314	1.55	0.122	-.050351	.4280032
elec_t						
--.						
L1.	-.0429621	.0521102	-0.82	0.410	-.1450961	.059172
	-.0828688	.0425925	-1.95	0.052	-.1663485	.000611
Age	.0000408	.0058361	0.01	0.994	-.0113978	.0114794
sex						

Male	-.0105751	.0956519	-0.11	0.912	-.1980494	.1768993
k_12centers	-.001176	.0007977	-1.47	0.140	-.0027394	.0003874
gdp	2.59e-08	1.30e-08	1.99	0.047	3.97e-10	5.14e-08
interest_rate	-.0388141	.0157067	-2.47	0.013	-.0695988	-.0080294
debt	-.015603	.0057862	-2.70	0.007	-.0269438	-.0042623
deficit	3.80e-08	7.37e-08	0.52	0.606	-1.07e-07	1.83e-07
party_type						
National	.0379201	.4648008	0.08	0.935	-.8730729	.948913
Provincial	4.603135	3.355028	1.37	0.170	-1.972599	11.17887
win_margin	.0000449	.0104698	0.00	0.997	-.0204755	.0205652
abstentionism	.0031243	.016074	0.19	0.846	-.0283802	.0346288
pop_share014	.0302174	.0206999	1.46	0.144	-.0103537	.0707885
pop_share65plus	.0593621	.0384666	1.54	0.123	-.0160311	.1347554
_cons	.3890662	1.272626	0.31	0.760	-2.105234	2.883366

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.1_rpc_serv L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
L1.abstentionism L1.pop_share014 L1.pop_share65plus

2, model(level):

D.L.1_rpc_serv D.L2.1_rpc_serv D.elec_t D.L.elec_t D.Age D.2.sex
D.k_12centers D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(10) = 18.5263
Prob > chi2 = 0.0467

2-step moment functions, 3-step weighting matrix chi2(10) = 29.3333
Prob > chi2 = 0.0011

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -4.0694 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = -0.8923 Prob > |z| = 0.3722

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .03597839

Step 2 f(b) = .44507279

Fitting reduced model 2:

Step 1 f(b) = .11836116

Group variable: **mun_id**

Number of obs = 1042

Time variable: **year**

Number of groups = 81

Moment conditions: linear = 40 Obs per group: min = 10
 nonlinear = 0 avg = 12.8642
 total = 40 max = 13

(Std. err. adjusted for 81 clusters in **mun_id**)

	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_serv						
l_rpc_serv						
L1.	.6487336	.0810109	8.01	0.000	.4899551	.8075121
L2.	.1990172	.1249226	1.59	0.111	-.0458266	.443861
elec_t						
--.	-.0623952	.0487093	-1.28	0.200	-.1578637	.0330733
L1.	-.0834247	.0460569	-1.81	0.070	-.1736946	.0068453
Age	.0016184	.0040746	0.40	0.691	-.0063677	.0096044

sex						
Male	.0117995	.0676104	0.17	0.861	-.1207145	.1443136
k_12centers	-.0009774	.0008403	-1.16	0.245	-.0026243	.0006695
gdp	3.06e-08	8.30e-09	3.69	0.000	1.43e-08	4.69e-08
interest_rate	-.0432389	.0152549	-2.83	0.005	-.0731379	-.0133399
debt	-.0176587	.0051933	-3.40	0.001	-.0278373	-.0074801
deficit	8.46e-08	7.70e-08	1.10	0.272	-6.63e-08	2.36e-07
party_type						
National	.052163	.4836755	0.11	0.914	-.8958235	1.000149
Provincial	2.551725	2.887131	0.88	0.377	-3.106948	8.210398
win_margin	-.000371	.0048206	-0.08	0.939	-.0098192	.0090772
abstentionism	.0061031	.0069584	0.88	0.380	-.0075351	.0197413
pop_share014	.020188	.0167141	1.21	0.227	-.012571	.0529469
pop_share65plus	.058944	.0358177	1.65	0.100	-.0112575	.1291455
_cons	.7290539	1.304682	0.56	0.576	-1.828077	3.286185

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
```

```
L1.L2.l_rpc_serv L2.L2.l_rpc_serv L1.Age L2.Age L1.2.sex L2.2.sex
L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
```

```
2, model(level):
```

D.L.1_rpc_serv D.L2.1_rpc_serv D.elec_t D.L.elec_t D.Age D.2.sex
D.k 12centers D.gdp D.interest rate D.debt D.deficit

```
3, model(level):
```

cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

[illegible][illegible]

Arellano-Bond test for autocorrelation of the first-differenced residuals

Durbin-Watson test for autocorrelation of the first differenced residuals			
H0: no autocorrelation of order 1:	z =	-3.9315	Prob > z = 0.0001
H0: no autocorrelation of order 2:	z =	-0.8659	Prob > z = 0.3865

Generalized method of moments estimation

Fitting full model:

Step 1 $f(b) = .0422631$
Step 2 $f(b) = .54169384$

Fitting reduced model 2:

Step 1 $f(b) = .41321618$

Group variable: **mun id**

Time variable: **year**

```
Number of obs      =    1042
Number of groups   =     81
```

Moment conditions:	linear =	51	Obs per group:	min =	10
	nonlinear =	0		avg =	12.8642
	total =	51		max =	13

(Std. err. adjusted for 81 clusters in `mun_id`)

<code>l_rpc_serv</code>	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
<code>l_rpc_serv</code>						
<code>L1.</code>	.6419675	.0784203	8.19	0.000	.4882666	.7956684
<code>L2.</code>	.1747462	.1126078	1.55	0.121	-.0459609	.3954534
<code>elec_t</code>						
<code>--.</code>	-.0729306	.0456112	-1.60	0.110	-.1623268	.0164657
<code>L1.</code>	-.1015958	.0397306	-2.56	0.011	-.1794664	-.0237252
<code>Age</code>	-.0002724	.0033492	-0.08	0.935	-.0068367	.0062919
<code>sex</code>						
<code>Male</code>	-.0191405	.0598963	-0.32	0.749	-.1365351	.0982541
<code>k_12centers</code>	-.0005519	.0007101	-0.78	0.437	-.0019437	.0008399
<code>gdp</code>	2.90e-08	7.24e-09	4.01	0.000	1.48e-08	4.32e-08
<code>interest_rate</code>	-.0469745	.0142849	-3.29	0.001	-.0749724	-.0189765
<code>debt</code>	-.0183219	.0045482	-4.03	0.000	-.0272363	-.0094076
<code>deficit</code>	1.18e-07	6.67e-08	1.77	0.077	-1.29e-08	2.49e-07
<code>party_type</code>						
<code>National</code>	.315413	.5793753	0.54	0.586	-.8201417	1.450968
<code>Provincial</code>	1.4953	2.724749	0.55	0.583	-3.84511	6.835711
<code>win_margin</code>	-.0003852	.0040607	-0.09	0.924	-.008344	.0075736
<code>abstentionism</code>	.0029067	.0072801	0.40	0.690	-.0113621	.0171754
<code>pop_share014</code>	.0166164	.0143336	1.16	0.246	-.0114769	.0447097
<code>pop_share65plus</code>	.0776706	.03295	2.36	0.018	.0130897	.1422515
<code>_cons</code>	1.146114	1.241728	0.92	0.356	-1.287627	3.579855

Instruments corresponding to the linear moment conditions:

1, model(diff):

`L1.L2.1_rpc_serv` `L2.L2.1_rpc_serv` `L3.L2.1_rpc_serv` `L1.Age` `L2.Age` `L3.Age`
`L1.2.sex` `L2.2.sex` `L3.2.sex` `L1.k_12centers` `L2.k_12centers` `L3.k_12centers`
`L1.gdp` `L2.gdp` `L3.gdp` `L3.interest_rate` `L1.debt` `L2.debt` `L3.debt` `L1.deficit`
`L2.deficit` `L3.deficit` `L1.2bn.party_type` `L2.2bn.party_type` `L3.2bn.party_type`
`L1.3.party_type` `L2.3.party_type` `L3.3.party_type` `L1.win_margin` `L2.win_margin`
`L3.win_margin` `L1.abstentionism` `L2.abstentionism` `L3.abstentionism`
`L1.pop_share014` `L2.pop_share014` `L3.pop_share014` `L1.pop_share65plus`
`L2.pop_share65plus` `L3.pop_share65plus`

2, model(level):

`D.L.1_rpc_serv` `D.L2.1_rpc_serv` `D.elec_t` `D.Age` `D.2.sex` `D.k_12centers` `D.gdp`
`D.interest_rate` `D.debt` `D.deficit`

3, model(level):

`_cons`

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix `chi2(35)` = **43.8772**
 Prob > `chi2` = **0.1444**

2-step moment functions, 3-step weighting matrix `chi2(35)` = **52.1118**
 Prob > `chi2` = **0.0314**

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: `z` = **-4.1534** Prob > `|z|` = **0.0000**H0: no autocorrelation of order 2: `z` = **-0.8006** Prob > `|z|` = **0.4234**

Generalized method of moments estimation

Fitting full model:

Step 1 `f(b)` = **.0481493**Step 2 `f(b)` = **.61681451**

Fitting reduced model 2:

Step 1 `f(b)` = **.47023972**

Group variable: **mun_id** Number of obs = **1042**
Time variable: **year** Number of groups = **81**

Moment conditions: linear = **61** Obs per group: min = **10**
nonlinear = **0** avg = **12.8642**
total = **61** max = **13**

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_serv	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_serv						
L1.	.6346318	.0621865	10.21	0.000	.5127485	.756515
L2.	.1698977	.0885045	1.92	0.055	-.0035679	.3433632
elec_t						
--.	-.0841291	.0428988	-1.96	0.050	-.1682091	-.000049
L1.	-.1097824	.0384916	-2.85	0.004	-.1852246	-.0343402
Age	.0003338	.0027347	0.12	0.903	-.0050261	.0056937
sex						
Male	-.0204613	.0582047	-0.35	0.725	-.1345405	.0936179
k_12centers	-.000538	.0005329	-1.01	0.313	-.0015825	.0005064
gdp	2.95e-08	7.20e-09	4.10	0.000	1.54e-08	4.36e-08
interest_rate	-.0494501	.0131169	-3.77	0.000	-.0751586	-.0237415
debt	-.0185302	.0039158	-4.73	0.000	-.0262049	-.0108554
deficit	1.32e-07	6.51e-08	2.03	0.043	4.28e-09	2.59e-07
party_type						
National	.1340396	.3789609	0.35	0.724	-.6087102	.8767894
Provincial	1.285805	2.358735	0.55	0.586	-3.33723	5.908841
win_margin	-.0008725	.0033729	-0.26	0.796	-.0074832	.0057382
abstentionism	.0041396	.0080092	0.52	0.605	-.0115581	.0198374
pop_share014	.0173937	.0114109	1.52	0.127	-.0049713	.0397586
pop_share65plus	.0834587	.0345468	2.42	0.016	.0157483	.1511691
_cons	1.303007	1.063548	1.23	0.221	-.7815096	3.387523

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.l_rpc_serv L2.L2.l_rpc_serv L3.L2.l_rpc_serv L4.L2.l_rpc_serv L1.Age
L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex L4.2.sex L1.k_12centers
L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp L2.gdp L3.gdp L4.gdp
L1.debt L3.debt L4.debt L1.deficit L2.deficit L3.deficit L4.deficit
L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L4.2bn.party_type
L1.3.party_type L2.3.party_type L3.3.party_type L4.3.party_type
L1.win_margin L2.win_margin L3.win_margin L4.win_margin L1.abstentionism
L2.abstentionism L3.abstentionism L4.abstentionism L1.pop_share014
L2.pop_share014 L3.pop_share014 L4.pop_share014 L1.pop_share65plus
L2.pop_share65plus L3.pop_share65plus L4.pop_share65plus

2, model(level):

D.L.l_rpc_serv D.L2.l_rpc_serv D.Age D.2.sex D.k_12centers D.gdp
D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(45) = **49.9620**
Prob > chi2 = **0.2828**

2-step moment functions, 3-step weighting matrix chi2(45) = **58.6563**
Prob > chi2 = **0.0832**

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-4.7489** Prob > |z| = **0.0000**

H0: no autocorrelation of order 2: z = **-1.0666** Prob > |z| = **0.2862**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .21352167

Step 2 f(b) = .15900541

Fitting reduced model 2:

Step 1 f(b) = 4.454e-19

Group variable: **mun_id** Number of obs = 1125Time variable: **year** Number of groups = 81

Moment conditions:	linear =	24	Obs per group:	min =	11
	nonlinear =	0		avg =	13.88889
	total =	24		max =	14

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_d_goods	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_d_goods						
L1.	.3237929	.0693271	4.67	0.000	.1879142	.4596715
elec_t	-.0988887	.0943256	-1.05	0.294	-.2837636	.0859861
Age	.0296188	.0152334	1.94	0.052	-.0002381	.0594758
sex						
Male	-.1130466	.3185097	-0.35	0.723	-.7373142	.5112209
k_12centers	-.0017019	.0027803	-0.61	0.540	-.0071511	.0037473
gdp	6.80e-08	2.81e-08	2.42	0.015	1.30e-08	1.23e-07
interest_rate	.0758972	.0355144	2.14	0.033	.0062902	.1455043
debt	.0009706	.0096775	0.10	0.920	-.017997	.0199382
deficit	-6.23e-08	1.53e-07	-0.41	0.683	-3.62e-07	2.37e-07
party_type						
National	.077301	.694632	0.11	0.911	-1.284153	1.438755
Provincial	1.252552	11.19325	0.11	0.911	-20.68581	23.19091
win_margin	-.0156102	.0184723	-0.85	0.398	-.0518153	.0205949
abstentionism	.0446749	.0312755	1.43	0.153	-.016624	.1059738
pop_share014	.1157632	.0469375	2.47	0.014	.0237673	.2077591
pop_share65plus	.1936518	.1346906	1.44	0.151	-.0703369	.4576405
_cons	-4.322367	3.525463	-1.23	0.220	-11.23215	2.587412

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L1_rpc_d_goods L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
 L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
 L1.abstentionism L1.pop_share014 L1.pop_share65plus

2, model(level):

D.L1_rpc_d_goods D.elec_t D.Age D.2.sex D.k_12centers D.gdp
 D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix	chi2(10)	=	12.8794
	Prob > chi2	=	0.2305

2-step moment functions, 3-step weighting matrix	chi2(10)	=	13.6943
	Prob > chi2	=	0.1874

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -5.5939 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = 0.8359 Prob > |z| = 0.4032

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.47971668**Step 2 f(b) = **.32762299**

Fitting reduced model 2:

Step 1 f(b) = **.19078766**Group variable: **mun_id**Number of obs = **1125**Time variable: **year**Number of groups = **81**Moment conditions: linear = **38**Obs per group: min = **11**nonlinear = **0**avg = **13.88889**total = **38**max = **14**(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_d_goods	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_d_goods						
L1.	.3786602	.0596982	6.34	0.000	.2616538	.4956666
elec_t	-.0759703	.0727027	-1.04	0.296	-.2184649	.0665243
Age	.0222089	.0125486	1.77	0.077	-.0023859	.0468036
sex						
Male	-.0823307	.2587044	-0.32	0.750	-.5893821	.4247207
k_12centers	-.0016154	.0019093	-0.85	0.398	-.0053577	.0021268
gdp	7.93e-08	1.94e-08	4.10	0.000	4.14e-08	1.17e-07
interest_rate	.0249681	.0344844	0.72	0.469	-.0426201	.0925564
debt	-.0101572	.0072973	-1.39	0.164	-.0244596	.0041451
deficit	5.90e-08	1.13e-07	0.52	0.602	-1.63e-07	2.81e-07
party_type						
National	-.407234	.7412866	-0.55	0.583	-1.860129	1.045661
Provincial	5.136908	8.940781	0.57	0.566	-12.3867	22.66052
win_margin	.0007477	.0125115	0.06	0.952	-.0237743	.0252698
abstentionism	.0228644	.0218448	1.05	0.295	-.0199506	.0656795
pop_share014	.1113731	.0362377	3.07	0.002	.0403485	.1823976
pop_share65plus	.0843373	.090845	0.93	0.353	-.0937156	.2623902
_cons	-1.073703	3.205763	-0.33	0.738	-7.356883	5.209477

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L1.l_rpc_d_goods L2.L1.l_rpc_d_goods L1.Age L2.Age L1.2.sex L2.2.sex
 L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
 L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
 L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
 L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
 L2.pop_share014 L1.pop_share65plus L2.pop_share65plus

2, model(level):

D.L1.l_rpc_d_goods D.elec_t D.Age D.2.sex D.k_12centers D.gdp
 D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(24) = **26.5375**
 Prob > chi2 = **0.3265**

2-step moment functions, 3-step weighting matrix chi2(24) = **31.2181**
 Prob > chi2 = **0.1476**

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-5.1361** Prob > |z| = **0.0000**H0: no autocorrelation of order 2: z = **0.9978** Prob > |z| = **0.3184**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .55367039

Step 2 f(b) = .55949465

Fitting reduced model 2:

Step 1 f(b) = .39150671

Group variable: **mun_id**

Number of obs = 1125

Time variable: **year**

Number of groups = 81

Moment conditions:	linear =	51	Obs per group:	min =	11
	nonlinear =	0		avg =	13.88889
	total =	51		max =	14

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_d_goods	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_d_goods						
L1.	.3407873	.0677651	5.03	0.000	.2079702	.4736043
elec_t	-.0799355	.0688714	-1.16	0.246	-.214921	.05505
Age	.0007223	.011564	0.06	0.950	-.0219427	.0233873
sex						
Male	-.084847	.2887236	-0.29	0.769	-.650735	.4810409
k_12centers	-.0036366	.0018762	-1.94	0.053	-.0073139	.0000407
gdp	9.93e-08	1.77e-08	5.62	0.000	6.47e-08	1.34e-07
interest_rate	.0080868	.031978	0.25	0.800	-.054589	.0707626
debt	-.0072648	.0080968	-0.90	0.370	-.0231342	.0086046
deficit	-2.06e-09	1.40e-07	-0.01	0.988	-2.77e-07	2.72e-07
party_type						
National	-.673605	.8676015	-0.78	0.438	-2.374073	1.026863
Provincial	6.793705	7.411115	0.92	0.359	-7.731814	21.31922
win_margin	.0000808	.0101895	0.01	0.994	-.0198903	.0200519
abstentionism	.0136637	.0196261	0.70	0.486	-.0248028	.0521302
pop_share014	.1405466	.0352024	3.99	0.000	.0715512	.2095419
pop_share65plus	-.0338917	.0962213	-0.35	0.725	-.222482	.1546987
_cons	.9091624	2.834328	0.32	0.748	-4.646018	6.464343

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L1_rpc_d_goods L2.L1_rpc_d_goods L3.L1_rpc_d_goods L1.Age L2.Age
 L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
 L3.k_12centers L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate
 L3.interest_rate L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit
 L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L1.3.party_type
 L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
 L1.abstentionism L2.abstentionism L3.abstentionism L1.pop_share014
 L2.pop_share014 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus
 L3.pop_share65plus

2, model(level):

D.L1_rpc_d_goods D.Age D.2.sex D.k_12centers D.gdp D.interest_rate D.debt
 D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix	chi2(37)	=	45.3191
	Prob > chi2	=	0.1638

2-step moment functions, 3-step weighting matrix	chi2(37)	=	48.9236
	Prob > chi2	=	0.0908

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-5.3944** Prob > |z| = **0.0000**
H0: no autocorrelation of order 2: z = **0.7380** Prob > |z| = **0.4605**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.58671697**
Step 2 f(b) = **.67039403**

Fitting reduced model 2:

Step 1 f(b) = **.53826686**

Group variable: **mun_id** Number of obs = **1125**
Time variable: **year** Number of groups = **81**

Moment conditions: linear = **61** Obs per group: min = **11**
nonlinear = **0** avg = **13.88889**
total = **61** max = **14**

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_d_goods	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_d_goods						
L1.	.3610612	.0613383	5.89	0.000	.2408403	.4812821
elec_t	-.1023622	.0665823	-1.54	0.124	-.2328611	.0281367
Age	.0013947	.008912	0.16	0.876	-.0160725	.0188619
sex						
Male	-.0526184	.2943676	-0.18	0.858	-.6295683	.5243314
k_12centers	-.0037745	.0018981	-1.99	0.047	-.0074947	-.0000544
gdp	9.26e-08	1.57e-08	5.90	0.000	6.18e-08	1.23e-07
interest_rate	-.0129299	.0278077	-0.46	0.642	-.067432	.0415723
debt	-.0089836	.007938	-1.13	0.258	-.0245417	.0065746
deficit	2.71e-08	1.32e-07	0.21	0.837	-2.31e-07	2.85e-07
party_type						
National	-.2905086	.6326163	-0.46	0.646	-1.530414	.9493965
Provincial	7.493403	7.588647	0.99	0.323	-7.380072	22.36688
win_margin	-.0035937	.0093841	-0.38	0.702	-.0219862	.0147988
abstentionism	.0158662	.0150452	1.05	0.292	-.0136218	.0453543
pop_share014	.125081	.0307478	4.07	0.000	.0648163	.1853456
pop_share65plus	-.0410693	.0859474	-0.48	0.633	-.2095232	.1273845
_cons	1.081488	2.376046	0.46	0.649	-3.575477	5.738453

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L1_rpc_d_goods L2.L1_rpc_d_goods L3.L1_rpc_d_goods L4.L1_rpc_d_goods
L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex L4.2.sex
L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp L2.gdp
L3.gdp L4.gdp L4.interest_rate L2.debt L3.debt L4.debt L1.deficit
L2.deficit L3.deficit L4.deficit L1.2bn.party_type L2.2bn.party_type
L3.2bn.party_type L4.2bn.party_type L1.3.party_type L2.3.party_type
L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin L3.win_margin
L4.win_margin L1.abstentionism L2.abstentionism L3.abstentionism
L4.abstentionism L1.pop_share014 L2.pop_share014 L3.pop_share014
L4.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus
L4.pop_share65plus

2, model(level):

D.L1_rpc_d_goods D.Age D.2.sex D.k_12centers D.gdp D.interest_rate D.debt
D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(47) = 54.3019
 Prob > chi2 = 0.2161

2-step moment functions, 3-step weighting matrix chi2(47) = 62.3282
 Prob > chi2 = 0.0664

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -5.5922 Prob > |z| = 0.0000
 H0: no autocorrelation of order 2: z = 0.8707 Prob > |z| = 0.3839

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .15774039
 Step 2 f(b) = .10744497

Fitting reduced model 2:

Step 1 f(b) = 1.583e-17

Group variable: **mun_id** Number of obs = 1042
 Time variable: **year** Number of groups = 81

Moment conditions: linear = 25 Obs per group: min = 10
 nonlinear = 0 avg = 12.8642
 total = 25 max = 13

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_d_goods	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_d_goods						
L1.	.3742409	.0519142	7.21	0.000	.272491	.4759909
L2.	.0567921	.0414904	1.37	0.171	-.0245275	.1381117
elec_t	.0453655	.0749829	0.61	0.545	-.1015983	.1923293
Age	.0287702	.0146862	1.96	0.050	-.0000143	.0575546
sex						
Male	-.2035317	.3374437	-0.60	0.546	-.8649091	.4578458
k_12centers	-.0000385	.0021205	-0.02	0.985	-.0041946	.0041175
gdp	1.40e-08	3.06e-08	0.46	0.646	-4.59e-08	7.39e-08
interest_rate	.1014687	.0303049	3.35	0.001	.0420721	.1608653
debt	.0120537	.0117228	1.03	0.304	-.0109226	.03503
deficit	-1.33e-07	1.21e-07	-1.10	0.272	-3.70e-07	1.04e-07
party_type						
National	-1.286352	.7513562	-1.71	0.087	-2.758983	.1862791
Provincial	1.154183	11.14709	0.10	0.918	-20.6937	23.00207
win_margin	.0003625	.0123441	0.03	0.977	-.0238316	.0245565
abstentionism	.0152744	.0231452	0.66	0.509	-.0300892	.0606381
pop_share014	.0760204	.0337113	2.26	0.024	.0099474	.1420934
pop_share65plus	.1262738	.0836075	1.51	0.131	-.037594	.2901415
_cons	-.2596175	2.490099	-0.10	0.917	-5.140122	4.620887

Instruments corresponding to the linear moment conditions:

1, model(diff):

 L1.L2.1_rpc_d_goods L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
 L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
 L1.abstentionism L1.pop_share014 L1.pop_share65plus

2, model(level):

 D.L1_rpc_d_goods D.L2.1_rpc_d_goods D.elec_t D.Age D.2.sex D.k_12centers
 D.gdp D.interest_rate D.debt D.deficit

3, model(level):

 _cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(10) = 8.7030
 Prob > chi2 = 0.5605

2-step moment functions, 3-step weighting matrix chi2(10) = 9.8097
 Prob > chi2 = 0.4573

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -5.5025 Prob > |z| = 0.0000
 H0: no autocorrelation of order 2: z = -0.4793 Prob > |z| = 0.6317

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .38523977
 Step 2 f(b) = .37771723

Fitting reduced model 2:

Step 1 f(b) = .18465794

Group variable: **mun_id** Number of obs = 1042
 Time variable: **year** Number of groups = 81

Moment conditions: linear = 39 Obs per group: min = 10
 nonlinear = 0 avg = 12.8642
 total = 39 max = 13

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_d_goods	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_d_goods						
L1.	.3348584	.0763324	4.39	0.000	.1852496	.4844672
L2.	.0459624	.0470005	0.98	0.328	-.0461568	.1380817
elec_t	-.0020403	.0778756	-0.03	0.979	-.1546737	.1505932
Age	.0236145	.0150102	1.57	0.116	-.0058049	.0530339
sex						
Male	-.0413523	.287234	-0.14	0.886	-.6043205	.521616
k_12centers	-.0015142	.0019429	-0.78	0.436	-.0053221	.0022937
gdp	7.67e-08	2.06e-08	3.73	0.000	3.63e-08	1.17e-07
interest_rate	.0530704	.0322387	1.65	0.100	-.0101163	.1162572
debt	-.0043176	.0103369	-0.42	0.676	-.0245775	.0159423
deficit	-5.45e-08	1.46e-07	-0.37	0.710	-3.41e-07	2.32e-07
party_type						
National	-1.524423	.7866865	-1.94	0.053	-3.0663	.0174545
Provincial	6.662709	11.89799	0.56	0.575	-16.65693	29.98235
win_margin	.0051572	.0113223	0.46	0.649	-.0170342	.0273485
abstentionism	.0074858	.0232522	0.32	0.747	-.0380877	.0530592
pop_share014	.1365083	.0550905	2.48	0.013	.0285329	.2444837
pop_share65plus	.0528449	.1459096	0.36	0.717	-.2331327	.3388225
_cons	-.1237165	3.587679	-0.03	0.972	-7.155438	6.908005

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.1_rpc_d_goods L2.L2.1_rpc_d_goods L1.Age L2.Age L1.2.sex L2.2.sex
 L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
 L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
 L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
 L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
 L2.pop_share014 L1.pop_share65plus L2.pop_share65plus

2, model(level):

D.L.1_rpc_d_goods D.L2.1_rpc_d_goods D.elec_t D.Age D.2.sex D.k_12centers
 D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(24) = 30.5951
Prob > chi2 = 0.1658

2-step moment functions, 3-step weighting matrix chi2(24) = 32.6183
Prob > chi2 = 0.1124

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -5.5989 Prob > |z| = 0.0000
H0: no autocorrelation of order 2: z = -0.3633 Prob > |z| = 0.7164

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .50427452
Step 2 f(b) = .48638334

Fitting reduced model 2:

Step 1 f(b) = .26787575

Group variable: **mun_id** Number of obs = 1042
Time variable: **year** Number of groups = 81

Moment conditions: linear = 51 Obs per group: min = 10
 nonlinear = 0 avg = 12.8642
 total = 51 max = 13

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_d_goods	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_d_goods						
L1.	.3163948	.0715231	4.42	0.000	.1762122	.4565775
L2.	.0540025	.0377115	1.43	0.152	-.0199108	.1279157
elec_t	-.0808147	.0708336	-1.14	0.254	-.219646	.0580167
Age	.0117206	.0129064	0.91	0.364	-.0135754	.0370166
sex						
Male	-.1432911	.2371135	-0.60	0.546	-.608025	.3214429
k_12centers	-.0029702	.0020621	-1.44	0.150	-.0070118	.0010715
gdp	9.64e-08	1.82e-08	5.28	0.000	6.06e-08	1.32e-07
interest_rate	.0401348	.0362565	1.11	0.268	-.0309267	.1111963
debt	-.0136678	.009574	-1.43	0.153	-.0324324	.0050969
deficit	-2.36e-08	1.35e-07	-0.17	0.861	-2.88e-07	2.41e-07
party_type						
National	-1.519224	1.15374	-1.32	0.188	-3.780512	.742064
Provincial	8.939613	12.60071	0.71	0.478	-15.75733	33.63656
win_margin	.0007403	.0122564	0.06	0.952	-.0232818	.0247623
abstentionism	.0134643	.0182356	0.74	0.460	-.0222768	.0492055
pop_share014	.1571989	.0582205	2.70	0.007	.0430889	.271309
pop_share65plus	.1239672	.1632104	0.76	0.448	-.1959192	.4438536
_cons	-.4879935	3.857539	-0.13	0.899	-8.04863	7.072643

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.l_rpc_d_goods L2.L2.l_rpc_d_goods L3.L2.l_rpc_d_goods L1.Age L2.Age
L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
L3.k_12centers L1.gdp L2.gdp L3.gdp L3.interest_rate L1.debt L2.debt
L3.debt L1.deficit L2.deficit L3.deficit L1.2bn.party_type
L2.2bn.party_type L3.2bn.party_type L1.3.party_type L2.3.party_type
L3.3.party_type L1.win_margin L2.win_margin L3.win_margin L1.abstentionism
L2.abstentionism L3.abstentionism L1.pop_share014 L2.pop_share014
L3.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus

2, model(level):

D.L.l_rpc_d_goods D.L2.l_rpc_d_goods D.elec_t D.Age D.2.sex D.k_12centers
D.gdp D.interest_rate D.debt D.deficit

```
3, model(level):
   _cons
```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(36) = **39.3971**
Prob > chi2 = **0.3204**

2-step moment functions, 3-step weighting matrix chi2(36) = **47.5482**
Prob > chi2 = **0.0943**

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-5.3835** Prob > |z| = **0.0000**

H0: no autocorrelation of order 2: z = **-0.6110** Prob > |z| = **0.5412**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.55086284**

Step 2 f(b) = **.66113775**

Fitting reduced model 2:

Step 1 f(b) = **.46350471**

Group variable: **mun_id** Number of obs = **1042**

Time variable: **year** Number of groups = **81**

Moment conditions: linear = **61** Obs per group: min = **10**
 nonlinear = **0** avg = **12.8642**
 total = **61** max = **13**

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_d_goods	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_d_goods						
L1.	.3523226	.063661	5.53	0.000	.2275493	.4770959
L2.	.0740729	.0468274	1.58	0.114	-.0177072	.165853
elec_t	-.0956485	.0663277	-1.44	0.149	-.2256485	.0343514
Age	.001877	.0098223	0.19	0.848	-.0173744	.0211284
sex						
Male	-.0151391	.253741	-0.06	0.952	-.5124623	.482184
k_12centers	-.0042741	.0020424	-2.09	0.036	-.008277	-.0002712
gdp	9.25e-08	1.63e-08	5.67	0.000	6.05e-08	1.25e-07
interest_rate	.0003066	.027847	0.01	0.991	-.0542724	.0548857
debt	-.013557	.0096662	-1.40	0.161	-.0325024	.0053883
deficit	3.94e-08	1.22e-07	0.32	0.747	-2.00e-07	2.79e-07
party_type						
National	-.8375703	.8347923	-1.00	0.316	-2.473733	.7985927
Provincial	10.78457	10.31383	1.05	0.296	-9.430169	30.9993
win_margin	.0002199	.0107418	0.02	0.984	-.0208337	.0212734
abstentionism	.018831	.0146348	1.29	0.198	-.0098527	.0475148
pop_share014	.1197212	.0318886	3.75	0.000	.0572207	.1822218
pop_share65plus	-.0099419	.0885182	-0.11	0.911	-.1834344	.1635505
_cons	.8493354	2.453731	0.35	0.729	-3.959888	5.658559

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
```

```
L1.L2.1_rpc_d_goods L2.L2.1_rpc_d_goods L3.L2.1_rpc_d_goods
L4.L2.1_rpc_d_goods L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex
L4.2.sex L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp
L2.gdp L3.gdp L4.gdp L1.debt L3.debt L4.debt L1.deficit L2.deficit
L3.deficit L4.deficit L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type
L4.2bn.party_type L1.3.party_type L2.3.party_type L3.3.party_type
L4.3.party_type L1.win_margin L2.win_margin L3.win_margin L4.win_margin
L1.abstentionism L2.abstentionism L3.abstentionism L4.abstentionism
```

```

L1.pop_share014 L2.pop_share014 L3.pop_share014 L4.pop_share014
L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus L4.pop_share65plus
2, model(level):
  D.L1_rpc_d_goods D.L2.1_rpc_d_goods D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(46) = 53.5522
Prob > chi2 = 0.2071

2-step moment functions, 3-step weighting matrix chi2(46) = 62.7449
Prob > chi2 = 0.0507

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = -5.3165 Prob > |z| = 0.0000
H0: no autocorrelation of order 2: z = -0.7847 Prob > |z| = 0.4326

Generalized method of moments estimation

Fitting full model:
Step 1 f(b) = .21500051
Step 2 f(b) = .15907319

Fitting reduced model 2:
Step 1 f(b) = 4.736e-19

Group variable: **mun_id** Number of obs = 1125
Time variable: **year** Number of groups = 81

Moment conditions: linear = 25 Obs per group: min = 11
 nonlinear = 0 avg = 13.88889
 total = 25 max = 14

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_d_goods	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_d_goods						
L1.	.3182132	.0689034	4.62	0.000	.1831651	.4532613
elec_t						
--.	-.2320799	.1418055	-1.64	0.102	-.5100135	.0458537
L1.	-.1633729	.1656327	-0.99	0.324	-.488007	.1612612
Age	.0304432	.0149512	2.04	0.042	.0011394	.0597471
sex						
Male	-.1136887	.3117795	-0.36	0.715	-.7247653	.4973879
k_12centers	-.0016012	.0027821	-0.58	0.565	-.0070539	.0038516
gdp	7.19e-08	2.62e-08	2.74	0.006	2.06e-08	1.23e-07
interest_rate	.0415159	.0450021	0.92	0.356	-.0466865	.1297184
debt	-.0043079	.0124309	-0.35	0.729	-.0286719	.0200562
deficit	7.51e-08	2.37e-07	0.32	0.751	-3.89e-07	5.39e-07
party_type						
National	.1318874	.6782217	0.19	0.846	-1.197403	1.461178
Provincial	1.230995	11.04514	0.11	0.911	-20.41709	22.87908
win_margin	-.0148409	.0185974	-0.80	0.425	-.0512912	.0216094
abstentionism	.0392535	.0323621	1.21	0.225	-.024175	.102682
pop_share014	.1027685	.0464558	2.21	0.027	.0117167	.1938202
pop_share65plus	.1843022	.1234494	1.49	0.135	-.0576542	.4262587
_cons	-2.997743	3.845622	-0.78	0.436	-10.53502	4.539538

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L1_rpc_d_goods L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate

```

```

L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
L1.abstentionism L1.pop_share014 L1.pop_share65plus
2, model(level):
  D.L.1_rpc_d_goods D.elec_t D.L.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(10) = **12.8849**
Prob > chi2 = **0.2302**

2-step moment functions, 3-step weighting matrix chi2(10) = **13.7741**
Prob > chi2 = **0.1835**

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = **-5.5387** Prob > |z| = **0.0000**
H0: no autocorrelation of order 2: z = **0.7540** Prob > |z| = **0.4508**

Generalized method of moments estimation

Fitting full model:
Step 1 f(b) = **.47237489**
Step 2 f(b) = **.28878266**

Fitting reduced model 2:
Step 1 f(b) = **.19887863**

Group variable: **mun_id** Number of obs = **1125**
Time variable: **year** Number of groups = **81**

Moment conditions: linear = **39** Obs per group: min = **11**
 nonlinear = **0** avg = **13.88889**
 total = **39** max = **14**

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_d_goods	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_d_goods						
L1.	.3623038	.0563765	6.43	0.000	.2518078	.4727997
elec_t						
--.	-.216605	.0766532	-2.83	0.005	-.3668424	-.0663675
L1.	-.2294208	.0970249	-2.36	0.018	-.4195862	-.0392555
Age	.0200794	.0124397	1.61	0.106	-.0043019	.0444607
sex						
Male	-.0964571	.242221	-0.40	0.690	-.5712016	.3782875
k_12centers	-.0013146	.0018676	-0.70	0.482	-.004975	.0023459
gdp	7.71e-08	1.83e-08	4.22	0.000	4.13e-08	1.13e-07
interest_rate	-.0118512	.0357285	-0.33	0.740	-.0818778	.0581754
debt	-.0142539	.0065987	-2.16	0.031	-.0271871	-.0013206
deficit	1.82e-07	1.21e-07	1.51	0.131	-5.45e-08	4.19e-07
party_type						
National	-.197369	.6785147	-0.29	0.771	-1.527233	1.132495
Provincial	5.641804	8.864255	0.64	0.524	-11.73182	23.01542
win_margin	.0030678	.0113462	0.27	0.787	-.0191703	.0253059
abstentionism	.0176019	.020407	0.86	0.388	-.0223951	.0575989
pop_share014	.0992169	.0350541	2.83	0.005	.0305122	.1679216
pop_share65plus	.1192205	.0808795	1.47	0.140	-.0393005	.2777414
_cons	.1074452	3.125737	0.03	0.973	-6.018887	6.233777

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L.1_rpc_d_goods L2.L.1_rpc_d_goods L1.Age L2.Age L1.2.sex L2.2.sex

```

```

L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
2, model(level):
  D.L1.rpc_d_goods D.elec_t D.L.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(24) = **23.3914**
Prob > chi2 = **0.4968**

2-step moment functions, 3-step weighting matrix chi2(24) = **28.5885**
Prob > chi2 = **0.2360**

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = **-5.1163** Prob > |z| = **0.0000**
H0: no autocorrelation of order 2: z = **0.7574** Prob > |z| = **0.4488**

Generalized method of moments estimation

Fitting full model:
Step 1 f(b) = **.52712822**
Step 2 f(b) = **.52932079**

Fitting reduced model 2:
Step 1 f(b) = **.39783821**

Group variable: **mun_id** Number of obs = **1125**
Time variable: **year** Number of groups = **81**

Moment conditions: linear = **51** Obs per group: min = **11**
 nonlinear = **0** avg = **13.88889**
 total = **51** max = **14**

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_d_goods	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_d_goods						
L1.	.3218058	.0650869	4.94	0.000	.1942377	.4493738
elec_t						
--.	-.2041393	.0850751	-2.40	0.016	-.3708835	-.0373951
L1.	-.2392093	.1112786	-2.15	0.032	-.4573113	-.0211072
Age	.0020591	.0106139	0.19	0.846	-.0187438	.0228619
sex						
Male	-.1914054	.2925792	-0.65	0.513	-.76485	.3820392
k_12centers	-.0029869	.0017616	-1.70	0.090	-.0064396	.0004658
gdp	9.48e-08	1.64e-08	5.77	0.000	6.26e-08	1.27e-07
interest_rate	-.0216153	.0337438	-0.64	0.522	-.087752	.0445215
debt	-.0125372	.0077574	-1.62	0.106	-.0277415	.002667
deficit	1.89e-07	1.66e-07	1.14	0.255	-1.37e-07	5.14e-07
party_type						
National	-.2355735	.8508321	-0.28	0.782	-1.903174	1.432027
Provincial	6.705422	6.911774	0.97	0.332	-6.841406	20.25225
win_margin	-.0008859	.008524	-0.10	0.917	-.0175926	.0158207
abstentionism	.0198965	.0163966	1.21	0.225	-.0122402	.0520332
pop_share014	.1213141	.0349259	3.47	0.001	.0528605	.1897676
pop_share65plus	.064741	.0945808	0.68	0.494	-.1206339	.2501159
_cons	.9002138	2.524099	0.36	0.721	-4.04693	5.847358

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L1_rpc_d_goods L2.L1_rpc_d_goods L3.L1_rpc_d_goods L1.Age L2.Age
  L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
  L3.k_12centers L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate
  L3.interest_rate L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit
  L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L1.3.party_type
  L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
  L1.abstentionism L2.abstentionism L3.abstentionism L1.pop_share014
  L2.pop_share014 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus
  L3.pop_share65plus
2, model(level):
  D.L1_rpc_d_goods D.Age D.2.sex D.k_12centers D.gdp D.interest_rate D.debt
  D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

```
2-step moment functions, 2-step weighting matrix      chi2(36)      =    42.8750
                                                         Prob > chi2    =    0.2001
```

```
2-step moment functions, 3-step weighting matrix      chi2(36)      =    48.2149
                                                         Prob > chi2    =    0.0839
```

Arellano-Bond test for autocorrelation of the first-differenced residuals

```
H0: no autocorrelation of order 1:      z =    -5.3869      Prob > |z|    =    0.0000
H0: no autocorrelation of order 2:      z =     0.3979      Prob > |z|    =    0.6907
```

Generalized method of moments estimation

Fitting full model:

```
Step 1      f(b) =    .5590635
Step 2      f(b) =    .6343516
```

Fitting reduced model 2:

```
Step 1      f(b) =    .53541558
```

```
Group variable: mun_id      Number of obs      =    1125
Time variable: year      Number of groups    =     81
```

```
Moment conditions:      linear =     61      Obs per group:      min =     11
                        nonlinear =     0                        avg =    13.88889
                        total =     61                        max =     14
```

(Std. err. adjusted for 81 clusters in mun_id)

l_rpc_d_goods	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_d_goods						
L1.	.3462258	.059753	5.79	0.000	.2291121	.4633394
elec_t						
--.	-.2019691	.0715787	-2.82	0.005	-.3422609	-.0616773
L1.	-.2249696	.0939222	-2.40	0.017	-.4090537	-.0408855
Age	.0020307	.0086411	0.24	0.814	-.0149056	.018967
sex						
Male	-.1223822	.2856938	-0.43	0.668	-.6823318	.4375674
k_12centers	-.0026931	.0016318	-1.65	0.099	-.0058914	.0005051
gdp	8.78e-08	1.44e-08	6.09	0.000	5.95e-08	1.16e-07
interest_rate	-.0467632	.0300785	-1.55	0.120	-.105716	.0121895
debt	-.0151662	.0076256	-1.99	0.047	-.0301122	-.0002203
deficit	2.00e-07	1.48e-07	1.35	0.176	-8.94e-08	4.89e-07
party_type						
National	-.0573213	.61109	-0.09	0.925	-1.255036	1.140393
Provincial	6.837006	7.175743	0.95	0.341	-7.227192	20.9012

win_margin	-.0036034	.0085961	-0.42	0.675	-.0204515	.0132448
abstentionism	.0191319	.0125332	1.53	0.127	-.0054327	.0436965
pop_share014	.1029382	.0303994	3.39	0.001	.0433565	.1625199
pop_share65plus	.0403692	.0783264	0.52	0.606	-.1131477	.1938861
_cons	1.619398	2.221182	0.73	0.466	-2.734038	5.972835

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L1_rpc_d_goods L2.L1_rpc_d_goods L3.L1_rpc_d_goods L4.L1_rpc_d_goods
  L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex L4.2.sex
  L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp L2.gdp
  L3.gdp L4.gdp L4.interest_rate L2.debt L3.debt L4.debt L1.deficit
  L2.deficit L3.deficit L4.deficit L1.2bn.party_type L2.2bn.party_type
  L3.2bn.party_type L4.2bn.party_type L1.3.party_type L2.3.party_type
  L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin L3.win_margin
  L4.win_margin L1.abstentionism L2.abstentionism L3.abstentionism
  L4.abstentionism L1.pop_share014 L2.pop_share014 L3.pop_share014
  L4.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus
  L4.pop_share65plus
2, model(level):
  D.L1_rpc_d_goods D.Age D.2.sex D.k_12centers D.gdp D.interest_rate D.debt
  D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

```
2-step moment functions, 2-step weighting matrix      chi2(46)      =    51.3825
                                                         Prob > chi2 =    0.2711
```

```
2-step moment functions, 3-step weighting matrix      chi2(46)      =    58.7699
                                                         Prob > chi2 =    0.0980
```

Arellano-Bond test for autocorrelation of the first-differenced residuals

```
H0: no autocorrelation of order 1:      z =    -5.5955      Prob > |z| =    0.0000
H0: no autocorrelation of order 2:      z =     0.5553      Prob > |z| =    0.5787
```

Generalized method of moments estimation

Fitting full model:

```
Step 1      f(b) = .16214976
Step 2      f(b) = .11483343
```

```
Group variable: mun_id      Number of obs      =    1042
Time variable: year      Number of groups      =     81
```

```
Moment conditions:      linear =     26      Obs per group:      min =     10
                        nonlinear =     0      avg =    12.8642
                        total =     26      max =     13
```

(Std. err. adjusted for 81 clusters in mun_id)

l_rpc_d_goods	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_d_goods						
L1.	.367531	.0505561	7.27	0.000	.2684429	.4666191
L2.	.058951	.0436299	1.35	0.177	-.0265621	.144464
elec_t						
--.	-.064995	.128471	-0.51	0.613	-.3167935	.1868035
L1.	-.133727	.1412978	-0.95	0.344	-.4106655	.1432116
Age	.0282094	.014606	1.93	0.053	-.0004177	.0568366
sex						
Male	-.1961965	.3237901	-0.61	0.545	-.8308134	.4384203
k_12centers	-.0002223	.0020639	-0.11	0.914	-.0042676	.003823
gdp	1.63e-08	2.82e-08	0.58	0.564	-3.91e-08	7.16e-08
interest_rate	.0731908	.042309	1.73	0.084	-.0097332	.1561149
debt	.0095016	.0128249	0.74	0.459	-.0156348	.0346379

deficit	-4.00e-08	1.84e-07	-0.22	0.828	-4.00e-07	3.20e-07
party_type						
National	-1.265945	.7496535	-1.69	0.091	-2.735239	.2033489
Provincial	1.779678	10.92585	0.16	0.871	-19.63459	23.19394
win_margin	.0010464	.0123164	0.08	0.932	-.0230932	.0251861
abstentionism	.0113314	.0222743	0.51	0.611	-.0323254	.0549881
pop_share014	.0695291	.0310592	2.24	0.025	.0086542	.1304041
pop_share65plus	.109234	.0736871	1.48	0.138	-.0351901	.2536582
_cons	.7653068	2.252546	0.34	0.734	-3.649603	5.180216

Instruments corresponding to the linear moment conditions:

- 1, model(diff):
 - L1.L2.l_rpc_d_goods L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
 - L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
 - L1.abstentionism L1.pop_share014 L1.pop_share65plus
- 2, model(level):
 - D.L.l_rpc_d_goods D.L2.l_rpc_d_goods D.elec_t D.L.elec_t D.Age D.2.sex
 - D.k_12centers D.gdp D.interest_rate D.debt D.deficit
- 3, model(level):
 - _cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(10) = 9.3015
 Prob > chi2 = 0.5037

2-step moment functions, 3-step weighting matrix chi2(10) = 10.3021
 Prob > chi2 = 0.4144

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -5.5243 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = -0.5542 Prob > |z| = 0.5794

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .40036956

Step 2 f(b) = .37573661

Fitting reduced model 2:

Step 1 f(b) = .17457891

Group variable: **mun_id** Number of obs = 1042
 Time variable: **year** Number of groups = 81

Moment conditions: linear = 40 Obs per group: min = 10
 nonlinear = 0 avg = 12.8642
 total = 40 max = 13

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_d_goods	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_d_goods						
L1.	.3287898	.0711438	4.62	0.000	.1893505	.4682292
L2.	.0539753	.0489047	1.10	0.270	-.0418762	.1498268
elec_t						
--.	-.1809103	.1135579	-1.59	0.111	-.4034797	.0416591
L1.	-.2429842	.137339	-1.77	0.077	-.5121637	.0261952
Age	.0245645	.0141044	1.74	0.082	-.0030797	.0522086
sex						
Male	-.1142202	.2719392	-0.42	0.674	-.6472112	.4187707
k_12centers	-.0014348	.0020124	-0.71	0.476	-.0053791	.0025094
gdp	7.73e-08	1.86e-08	4.16	0.000	4.09e-08	1.14e-07
interest_rate	.0051244	.0437657	0.12	0.907	-.0806548	.0909036

debt	-.0105149	.0105303	-1.00	0.318	-.0311538	.0101241
deficit	1.37e-07	1.94e-07	0.71	0.481	-2.44e-07	5.18e-07
party_type						
National	-1.080454	.8678572	-1.24	0.213	-2.781423	.6205146
Provincial	9.137246	12.51088	0.73	0.465	-15.38363	33.65812
win_margin	.0052118	.0102725	0.51	0.612	-.014922	.0253456
abstentionism	.0119357	.0201419	0.59	0.553	-.0275417	.0514131
pop_share014	.1139795	.0555652	2.05	0.040	.0050736	.2228853
pop_share65plus	.0754524	.1327281	0.57	0.570	-.1846898	.3355947
_cons	.5031296	3.380373	0.15	0.882	-6.122279	7.128539

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.1_rpc_d_goods L2.L2.1_rpc_d_goods L1.Age L2.Age L1.2.sex L2.2.sex
 L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
 L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
 L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
 L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
 L2.pop_share014 L1.pop_share65plus L2.pop_share65plus

2, model(level):

D.L.1_rpc_d_goods D.L2.1_rpc_d_goods D.elec_t D.L.elec_t D.Age D.2.sex
 D.k_12centers D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(24) = 30.4347
 Prob > chi2 = 0.1708

2-step moment functions, 3-step weighting matrix chi2(24) = 33.2865
 Prob > chi2 = 0.0982

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -5.6221 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = -0.6259 Prob > |z| = 0.5314

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .46122461

Step 2 f(b) = .45306134

Fitting reduced model 2:

Step 1 f(b) = .30990246

Group variable: **mun_id** Number of obs = 1042

Time variable: **year** Number of groups = 81

Moment conditions: linear = 51 Obs per group: min = 10
 nonlinear = 0 avg = 12.8642
 total = 51 max = 13

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_d_goods	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_d_goods						
L1.	.3190192	.0694702	4.59	0.000	.1828602	.4551782
L2.	.0668328	.0397118	1.68	0.092	-.011001	.1446665
elec_t						
--.	-.223367	.0986077	-2.27	0.023	-.4166344	-.0300995
L1.	-.2834122	.1245625	-2.28	0.023	-.5275502	-.0392742
Age	.0122731	.011769	1.04	0.297	-.0107937	.0353399
sex						

Male	-.1952053	.2307504	-0.85	0.398	-.6474678	.2570572
k_12centers	-.0022525	.0018762	-1.20	0.230	-.0059298	.0014249
gdp	8.38e-08	1.76e-08	4.77	0.000	4.94e-08	1.18e-07
interest_rate	-.0036104	.0421253	-0.09	0.932	-.0861744	.0789537
debt	-.0175532	.009044	-1.94	0.052	-.0352791	.0001727
deficit	1.97e-07	1.80e-07	1.10	0.273	-1.55e-07	5.49e-07
party_type						
National	-.7264971	1.07877	-0.67	0.501	-2.840848	1.387854
Provincial	8.988325	11.34103	0.79	0.428	-13.23968	31.21633
win_margin	.0010512	.0119708	0.09	0.930	-.0224111	.0245135
abstentionism	.0120548	.0149647	0.81	0.421	-.0172755	.041385
pop_share014	.1290312	.0576499	2.24	0.025	.0160395	.2420228
pop_share65plus	.1611344	.1372027	1.17	0.240	-.1077779	.4300467
_cons	.2711524	3.531842	0.08	0.939	-6.651131	7.193436

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.1_rpc_d_goods L2.L2.1_rpc_d_goods L3.L2.1_rpc_d_goods L1.Age L2.Age
 L3.Age L1.2_sex L2.2_sex L3.2_sex L1.k_12centers L2.k_12centers
 L3.k_12centers L1.gdp L2.gdp L3.gdp L3.interest_rate L1.debt L2.debt
 L3.debt L1.deficit L2.deficit L3.deficit L1.2bn.party_type
 L2.2bn.party_type L3.2bn.party_type L1.3.party_type L2.3.party_type
 L3.3.party_type L1.win_margin L2.win_margin L3.win_margin L1.abstentionism
 L2.abstentionism L3.abstentionism L1.pop_share014 L2.pop_share014
 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus

2, model(level):

D.L.1_rpc_d_goods D.L2.1_rpc_d_goods D.elec_t D.Age D.2.sex D.k_12centers
 D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(35) = 36.6980
 Prob > chi2 = 0.3900

2-step moment functions, 3-step weighting matrix chi2(35) = 46.1635
 Prob > chi2 = 0.0982

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -5.3733 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = -1.0848 Prob > |z| = 0.2780

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .50685505

Step 2 f(b) = .60903457

Fitting reduced model 2:

Step 1 f(b) = .45638154

Group variable: **mun_id**

Number of obs = 1042

Time variable: **year**

Number of groups = 81

Moment conditions: linear = 61
 nonlinear = 0
 total = 61

Obs per group: min = 10
 avg = 12.8642
 max = 13

(Std. err. adjusted for 81 clusters in `mun_id`)

<code>l_rpc_d_goods</code>	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
<code>l_rpc_d_goods</code>						
L1.	.3617239	.0636099	5.69	0.000	.2370507	.486397
L2.	.0874492	.0466513	1.87	0.061	-.0039856	.178884
elec_t						
--.	-.2251372	.0780951	-2.88	0.004	-.3782009	-.0720735
L1.	-.2795992	.0987917	-2.83	0.005	-.4732274	-.085971
Age	.0045335	.0090735	0.50	0.617	-.0132502	.0223172
sex						
Male	-.0838702	.2267777	-0.37	0.712	-.5283464	.3606059
k_12centers	-.0029384	.0017638	-1.67	0.096	-.0063955	.0005186
gdp	8.24e-08	1.50e-08	5.49	0.000	5.30e-08	1.12e-07
interest_rate	-.0448341	.0309848	-1.45	0.148	-.1055633	.0158951
debt	-.0187005	.0089192	-2.10	0.036	-.0361818	-.0012192
deficit	2.30e-07	1.34e-07	1.71	0.087	-3.35e-08	4.93e-07
party_type						
National	-.3620176	.7460358	-0.49	0.627	-1.824221	1.100186
Provincial	10.34547	9.359294	1.11	0.269	-7.998413	28.68934
win_margin	.0007372	.0107643	0.07	0.945	-.0203604	.0218348
abstentionism	.019857	.0118363	1.68	0.093	-.0033418	.0430557
pop_share014	.1059738	.0321129	3.30	0.001	.0430337	.1689138
pop_share65plus	.0585209	.079204	0.74	0.460	-.096716	.2137578
_cons	.9202033	2.41298	0.38	0.703	-3.809151	5.649558

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.1_rpc_d_goods L2.L2.1_rpc_d_goods L3.L2.1_rpc_d_goods
L4.L2.1_rpc_d_goods L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex
L4.2.sex L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp
L2.gdp L3.gdp L4.gdp L1.debt L3.debt L4.debt L1.deficit L2.deficit
L3.deficit L4.deficit L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type
L4.2bn.party_type L1.3.party_type L2.3.party_type L3.3.party_type
L4.3.party_type L1.win_margin L2.win_margin L3.win_margin L4.win_margin
L1.abstentionism L2.abstentionism L3.abstentionism L4.abstentionism
L1.pop_share014 L2.pop_share014 L3.pop_share014 L4.pop_share014
L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus L4.pop_share65plus

2, model(level):

D.L.1_rpc_d_goods D.L2.1_rpc_d_goods D.Age D.2.sex D.k_12centers D.gdp
D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(45) = 49.3318
Prob > chi2 = 0.3041

2-step moment functions, 3-step weighting matrix chi2(45) = 59.2246
Prob > chi2 = 0.0758

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -5.3930 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = -1.1757 Prob > |z| = 0.2397

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .01118397

Step 2 f(b) = .37403944

Fitting reduced model 2:
Step 1 $f(b) = 1.521e-16$

Group variable: **mun_id** Number of obs = **1131**
Time variable: **year** Number of groups = **81**

Moment conditions: linear = **23** Obs per group: min = **11**
nonlinear = **0** avg = **13.96296**
total = **23** max = **14**

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_total_expenses	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_total_expenses						
L1.	.8716255	.0347593	25.08	0.000	.8034986	.9397524
elec_t	-.0089178	.0116669	-0.76	0.445	-.0317844	.0139488
Age	-.0000286	.0022367	-0.01	0.990	-.0044124	.0043552
sex						
Male	-.0292877	.048627	-0.60	0.547	-.1245949	.0660196
k_12centers	-.0003982	.0003269	-1.22	0.223	-.0010389	.0002424
gdp	1.15e-08	4.07e-09	2.83	0.005	3.56e-09	1.95e-08
interest_rate	-.0142883	.0028677	-4.98	0.000	-.0199089	-.0086678
debt	-.0090775	.0011682	-7.77	0.000	-.0113672	-.0067879
deficit	3.26e-08	2.08e-08	1.56	0.118	-8.23e-09	7.34e-08
party_type						
National	-.0846533	.1252432	-0.68	0.499	-.3301254	.1608188
Provincial	-.0655854	.7945693	-0.08	0.934	-1.622913	1.491742
win_margin	.0009912	.0021086	0.47	0.638	-.0031416	.005124
abstentionism	.001847	.0038858	0.48	0.635	-.005769	.009463
pop_share014	.0120358	.0123545	0.97	0.330	-.0121785	.0362501
pop_share65plus	.0149041	.0224878	0.66	0.507	-.0291711	.0589793
_cons	1.950888	.9430476	2.07	0.039	.1025483	3.799227

Instruments corresponding to the linear moment conditions:

- 1, model(diff):
L1.L1_rpc_total_expenses L1.Age L1.2.sex L1.k_12centers L1.gdp L1.debt
L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin L1.abstentionism
L1.pop_share014 L1.pop_share65plus
- 2, model(level):
D.L1_rpc_total_expenses D.elec_t D.Age D.2.sex D.k_12centers D.gdp
D.interest_rate D.debt D.deficit
- 3, model(level):
_cons

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix $\chi^2(9) = 30.2972$
Prob > $\chi^2 = 0.0004$

2-step moment functions, 3-step weighting matrix $\chi^2(9) = 65.8035$
Prob > $\chi^2 = 0.0000$

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: $z = -3.9290$ Prob > $|z| = 0.0001$
H0: no autocorrelation of order 2: $z = 2.0396$ Prob > $|z| = 0.0414$

Generalized method of moments estimation

Fitting full model:
Step 1 $f(b) = .02289137$
Step 2 $f(b) = .63976366$

Fitting reduced model 2:
Step 1 $f(b) = .37132989$

Group variable: **mun_id** Number of obs = **1131**
 Time variable: **year** Number of groups = **81**

Moment conditions: linear = **37** Obs per group: min = **11**
 nonlinear = **0** avg = **13.96296**
 total = **37** max = **14**

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_total_expenses	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_total_expenses						
L1.	.7851087	.0440577	17.82	0.000	.6987572	.8714602
elec_t	.0061028	.0090235	0.68	0.499	-.0115829	.0237885
Age	-.0018335	.001855	-0.99	0.323	-.0054692	.0018021
sex						
Male	.0087835	.0423172	0.21	0.836	-.0741566	.0917236
k_12centers	-.0016662	.0006428	-2.59	0.010	-.0029261	-.0004064
gdp	2.47e-08	2.33e-09	10.63	0.000	2.02e-08	2.93e-08
interest_rate	-.0212374	.0020279	-10.47	0.000	-.025212	-.0172629
debt	-.0056458	.0006711	-8.41	0.000	-.0069611	-.0043305
deficit	-4.30e-08	9.29e-09	-4.63	0.000	-6.12e-08	-2.48e-08
party_type						
National	-.093698	.0843902	-1.11	0.267	-.2590998	.0717038
Provincial	.1443433	1.104645	0.13	0.896	-2.02072	2.309407
win_margin	.0005633	.0014686	0.38	0.701	-.002315	.0034417
abstentionism	-.0012908	.0032822	-0.39	0.694	-.0077238	.0051422
pop_share014	.0365519	.0050546	7.23	0.000	.0266452	.0464587
pop_share65plus	-.0346028	.015757	-2.20	0.028	-.0654858	-.0037197
_cons	2.837878	.5376958	5.28	0.000	1.784014	3.891743

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L1_rpc_total_expenses L2.L1_rpc_total_expenses L1.Age L2.Age L1.2.sex
  L2.2.sex L1.k_12centers L2.k_12centers L1.gdp L2.gdp L2.interest_rate
  L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type L2.2bn.party_type
  L1.3.party_type L2.3.party_type L1.win_margin L2.win_margin
  L1.abstentionism L2.abstentionism L1.pop_share014 L2.pop_share014
  L1.pop_share65plus L2.pop_share65plus
2, model(level):
  D.L1_rpc_total_expenses D.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions
 H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(23) = **51.8209**
 Prob > chi2 = **0.0005**

2-step moment functions, 3-step weighting matrix chi2(23) = **75.1843**
 Prob > chi2 = **0.0000**

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-4.2769** Prob > |z| = **0.0000**
 H0: no autocorrelation of order 2: z = **2.2777** Prob > |z| = **0.0227**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.02700169**
 Step 2 f(b) = **.86901503**

Fitting reduced model 2:

Step 1 f(b) = **.64755877**

Group variable: **mun_id** Number of obs = **1131**
 Time variable: **year** Number of groups = **81**

Moment conditions: linear = **49** Obs per group: min = **11**
 nonlinear = **0** avg = **13.96296**
 total = **49** max = **14**

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_total_expenses	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_total_expenses						
L1.	.8278528	.0300033	27.59	0.000	.7690474	.8866583
elec_t	.0043878	.0093748	0.47	0.640	-.0139865	.0227621
Age	-.0020276	.0021144	-0.96	0.338	-.0061717	.0021166
sex						
Male	.004348	.0477313	0.09	0.927	-.0892035	.0978996
k_12centers	-.0014799	.0006593	-2.24	0.025	-.0027721	-.0001876
gdp	2.36e-08	2.27e-09	10.40	0.000	1.92e-08	2.81e-08
interest_rate	-.0227029	.0021009	-10.81	0.000	-.0268206	-.0185852
debt	-.0063615	.0007166	-8.88	0.000	-.007766	-.0049571
deficit	-2.76e-08	1.05e-08	-2.63	0.008	-4.81e-08	-7.06e-09
party_type						
National	-.095632	.0958549	-1.00	0.318	-.2835041	.0922402
Provincial	-.5142718	1.06862	-0.48	0.630	-2.608728	1.580184
win_margin	.0001041	.0016643	0.06	0.950	-.0031579	.0033661
abstentionism	-.0011783	.0036058	-0.33	0.744	-.0082456	.005889
pop_share014	.0362494	.005673	6.39	0.000	.0251306	.0473682
pop_share65plus	-.0334029	.0162302	-2.06	0.040	-.0652135	-.0015924
_cons	2.258444	.4637096	4.87	0.000	1.34959	3.167299

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L1_rpc_total_expenses L2.L1_rpc_total_expenses
  L3.L1_rpc_total_expenses L1.Age L2.Age L3.Age L1.2.sex L2.2.sex L3.2.sex
  L1.k_12centers L2.k_12centers L3.k_12centers L1.gdp L2.gdp L3.gdp
  L1.interest_rate L2.interest_rate L3.interest_rate L2.debt L3.debt
  L1.deficit L2.deficit L3.deficit L1.2bn.party_type L2.2bn.party_type
  L3.2bn.party_type L1.3.party_type L2.3.party_type L3.3.party_type
  L1.win_margin L2.win_margin L3.win_margin L1.abstentionism L2.abstentionism
  L3.abstentionism L1.pop_share014 L2.pop_share014 L3.pop_share014
  L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus
2, model(level):
  D.L1_rpc_total_expenses D.Age D.2.sex D.k_12centers D.gdp D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(35) = **70.3902**
 Prob > chi2 = **0.0004**

2-step moment functions, 3-step weighting matrix chi2(35) = **79.5087**
 Prob > chi2 = **0.0000**

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-4.2432** Prob > |z| = **0.0000**
 H0: no autocorrelation of order 2: z = **2.4750** Prob > |z| = **0.0133**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.02818229**
 Step 2 f(b) = **.91689919**

Fitting reduced model 2:

Step 1 f(b) = .87405173

Group variable: **mun_id**

Number of obs = 1131

Time variable: **year**

Number of groups = 81

Moment conditions:

linear =	59
nonlinear =	0
total =	59

Obs per group:

min =	11
avg =	13.96296
max =	14

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_total_expenses	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_total_expenses						
L1.	.8379196	.0325075	25.78	0.000	.7742061	.9016331
elec_t	.0042037	.0086151	0.49	0.626	-.0126815	.021089
Age	-.0026277	.0019052	-1.38	0.168	-.0063619	.0011064
sex						
Male	.0133208	.0464352	0.29	0.774	-.0776904	.1043321
k_12centers	-.0013746	.0005456	-2.52	0.012	-.002444	-.0003052
gdp	2.31e-08	2.23e-09	10.36	0.000	1.87e-08	2.75e-08
interest_rate	-.0227301	.0020518	-11.08	0.000	-.0267516	-.0187086
debt	-.0064139	.0006433	-9.97	0.000	-.0076748	-.0051531
deficit	-2.96e-08	9.43e-09	-3.13	0.002	-4.80e-08	-1.11e-08
party_type						
National	-.1006279	.0819554	-1.23	0.220	-.2612574	.0600017
Provincial	-.3715676	.9561127	-0.39	0.698	-2.245514	1.502379
win_margin	7.53e-06	.0014165	0.01	0.996	-.0027688	.0027838
abstentionism	-.0009299	.0031708	-0.29	0.769	-.0071445	.0052846
pop_share014	.0359062	.005809	6.18	0.000	.0245209	.0472916
pop_share65plus	-.0333162	.0163951	-2.03	0.042	-.06545	-.0011824
_cons	2.131997	.4661252	4.57	0.000	1.218409	3.045586

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L1.rpc_total_expenses L2.L1.rpc_total_expenses
 L3.L1.rpc_total_expenses L4.L1.rpc_total_expenses L1.Age L2.Age L3.Age
 L4.Age L1.2.sex L2.2.sex L3.2.sex L4.2.sex L1.k_12centers L2.k_12centers
 L3.k_12centers L4.k_12centers L1.gdp L2.gdp L3.gdp L4.gdp L4.interest_rate
 L2.debt L3.debt L4.debt L1.deficit L2.deficit L3.deficit L4.deficit
 L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L4.2bn.party_type
 L1.3.party_type L2.3.party_type L3.3.party_type L4.3.party_type
 L1.win_margin L2.win_margin L3.win_margin L4.win_margin L1.abstentionism
 L2.abstentionism L3.abstentionism L4.abstentionism L1.pop_share014
 L2.pop_share014 L3.pop_share014 L4.pop_share014 L1.pop_share65plus
 L2.pop_share65plus L3.pop_share65plus L4.pop_share65plus

2, model(level):

D.L1.rpc_total_expenses D.Age D.2.sex D.k_12centers D.gdp D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(45) = 74.2688
 Prob > chi2 = 0.0039

2-step moment functions, 3-step weighting matrix chi2(45) = 80.1665
 Prob > chi2 = 0.0010

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -4.1373 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = 2.4114 Prob > |z| = 0.0159

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.00929871**
 Step 2 f(b) = **.50825439**

Fitting reduced model 2:

Step 1 f(b) = **5.057e-13**

Group variable: **mun_id**Number of obs = **1051**Time variable: **year**Number of groups = **81**

Moment conditions: linear = **24** Obs per group: min = **11**
 nonlinear = **0** avg = **12.97531**
 total = **24** max = **13**

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_total_expenses	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_total_expenses						
L1.	.7512387	.1302445	5.77	0.000	.4959641	1.006513
L2.	.193701	.0916777	2.11	0.035	.0140161	.3733859
elec_t	-.0128069	.0133019	-0.96	0.336	-.0388781	.0132643
Age	-.0023917	.002672	-0.90	0.371	-.0076288	.0028453
sex						
Male	.0862278	.0555512	1.55	0.121	-.0226505	.195106
k_12centers	-.001346	.0004446	-3.03	0.002	-.0022174	-.0004747
gdp	3.09e-08	6.58e-09	4.71	0.000	1.81e-08	4.38e-08
interest_rate	-.0264205	.007174	-3.68	0.000	-.0404812	-.0123597
_debt	-.0112167	.0033714	-3.33	0.001	-.0178246	-.0046088
deficit	-2.69e-08	1.87e-08	-1.44	0.151	-6.36e-08	9.81e-09
party_type						
National	-.0181141	.0819926	-0.22	0.825	-.1788167	.1425885
Provincial	1.481074	1.29465	1.14	0.253	-1.056393	4.01854
win_margin	-.0011912	.0039859	-0.30	0.765	-.0090034	.006621
abstentionism	.0036013	.0055346	0.65	0.515	-.0072464	.0144489
pop_share014	.0434219	.010151	4.28	0.000	.0235263	.0633175
pop_share65plus	-.0271372	.0173889	-1.56	0.119	-.0612188	.0069445
_cons	-.0586852	1.842912	-0.03	0.975	-3.670727	3.553357

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.l_rpc_total_expenses L1.Age L1.2.sex L1.k_12centers L1.gdp
 L1.interest_rate L1.debt L1.deficit L1.2bn.party_type L1.3.party_type
 L1.win_margin L1.abstentionism L1.pop_share014 L1.pop_share65plus

2, model(level):

D.L.l_rpc_total_expenses D.L2.l_rpc_total_expenses D.elec_t D.Age D.2.sex
 D.k_12centers D.gdp D.interest_rate D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(9) = **41.1686**
 Prob > chi2 = **0.0000**

2-step moment functions, 3-step weighting matrix chi2(9) = **68.2901**
 Prob > chi2 = **0.0000**

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-3.2425** Prob > |z| = **0.0012**H0: no autocorrelation of order 2: z = **-0.8516** Prob > |z| = **0.3945**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .01902099

Step 2 f(b) = .63655634

Fitting reduced model 2:

Step 1 f(b) = .39314916

Group variable: **mun_id**

Number of obs = 1051

Time variable: **year**

Number of groups = 81

Moment conditions: linear = 38

Obs per group: min = 11

nonlinear = 0

avg = 12.97531

total = 38

max = 13

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_total_expenses	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_total_expenses						
L1.	.5027548	.051542	9.75	0.000	.4017344	.6037753
L2.	.2768587	.0413639	6.69	0.000	.195787	.3579304
elec_t	-.0109136	.0091039	-1.20	0.231	-.0287569	.0069297
Age	-.0022188	.0019838	-1.12	0.263	-.006107	.0016693
sex						
Male	.0212078	.0492087	0.43	0.666	-.0752394	.117655
k_12centers	-.0020504	.000668	-3.07	0.002	-.0033596	-.0007413
gdp	3.20e-08	2.10e-09	15.23	0.000	2.79e-08	3.62e-08
interest_rate	-.0190264	.0024047	-7.91	0.000	-.0237396	-.0143132
_debt	-.0087902	.0011584	-7.59	0.000	-.0110606	-.0065197
deficit	-1.33e-08	1.26e-08	-1.06	0.290	-3.81e-08	1.14e-08
party_type						
National	-.0727498	.0990202	-0.73	0.463	-.2668259	.1213263
Provincial	.3974056	1.23532	0.32	0.748	-2.023777	2.818588
win_margin	.0001438	.0016307	0.09	0.930	-.0030523	.0033398
abstentionism	-.0006196	.0030411	-0.20	0.839	-.00658	.0053408
pop_share014	.0415741	.0044231	9.40	0.000	.032905	.0502433
pop_share65plus	-.0301661	.0122207	-2.47	0.014	-.0541182	-.0062139
_cons	2.76869	.582293	4.75	0.000	1.627416	3.909963

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.1_rpc_total_expenses L2.L2.1_rpc_total_expenses L1.Age L2.Age
 L1.2.sex L2.2.sex L1.k_12centers L2.k_12centers L1.gdp L2.gdp
 L1.interest_rate L2.interest_rate L2.debt L1.deficit L2.deficit
 L1.2bn.party_type L2.2bn.party_type L1.3.party_type L2.3.party_type
 L1.win_margin L2.win_margin L1.abstentionism L2.abstentionism
 L1.pop_share014 L2.pop_share014 L1.pop_share65plus L2.pop_share65plus

2, model(level):

D.L.1_rpc_total_expenses D.L2.1_rpc_total_expenses D.elec_t D.Age D.2.sex
 D.k_12centers D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(23) = 51.5611
 Prob > chi2 = 0.0006

2-step moment functions, 3-step weighting matrix chi2(23) = 76.4382
 Prob > chi2 = 0.0000

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -4.4820 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = -2.4616 Prob > |z| = 0.0138

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .02100669

Step 2 f(b) = .8004334

Fitting reduced model 2:

Step 1 f(b) = .65039649

Group variable: **mun_id** Number of obs = 1051Time variable: **year** Number of groups = 81

Moment conditions:	linear =	49	Obs per group:	min =	11
	nonlinear =	0		avg =	12.97531
	total =	49		max =	13

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_total_expenses	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_total_expenses						
L1.	.5583896	.0593964	9.40	0.000	.4419748	.6748045
L2.	.2569164	.0535745	4.80	0.000	.1519124	.3619205
elec_t	-.0154737	.0096591	-1.60	0.109	-.0344052	.0034579
Age	-.0027213	.0020302	-1.34	0.180	-.0067004	.0012578
sex						
Male	.0020361	.0477165	0.04	0.966	-.0914866	.0955589
k_12centers	-.0016175	.0005952	-2.72	0.007	-.002784	-.0004511
gdp	3.15e-08	2.73e-09	11.54	0.000	2.61e-08	3.68e-08
interest_rate	-.0208448	.0027697	-7.53	0.000	-.0262733	-.0154162
_debt	-.0099372	.001265	-7.86	0.000	-.0124166	-.0074578
deficit	-1.71e-09	1.29e-08	-0.13	0.894	-2.69e-08	2.35e-08
party_type						
National	-.111789	.0961385	-1.16	0.245	-.300217	.076639
Provincial	-.5572215	1.258575	-0.44	0.658	-3.023983	1.909539
win_margin	.0009766	.0016158	0.60	0.546	-.0021904	.0041436
abstentionism	-.000241	.0032084	-0.08	0.940	-.0065293	.0060474
pop_share014	.0382594	.0052592	7.27	0.000	.0279515	.0485673
pop_share65plus	-.0255573	.0153282	-1.67	0.095	-.0556001	.0044854
_cons	2.383871	.5705181	4.18	0.000	1.265676	3.502066

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.l_rpc_total_expenses L2.L2.l_rpc_total_expenses
 L3.L2.l_rpc_total_expenses L1.Age L2.Age L3.Age L1.2.sex L2.2.sex L3.2.sex
 L1.k_12centers L2.k_12centers L3.k_12centers L1.gdp L2.gdp L3.gdp
 L2.interest_rate L3.interest_rate L2.debt L3.debt L1.deficit L2.deficit
 L3.deficit L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type
 L1.3.party_type L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin
 L3.win_margin L1.abstentionism L2.abstentionism L3.abstentionism
 L1.pop_share014 L2.pop_share014 L3.pop_share014 L1.pop_share65plus
 L2.pop_share65plus L3.pop_share65plus

2, model(level):

D.L.l_rpc_total_expenses D.L2.l_rpc_total_expenses D.Age D.2.sex
 D.k_12centers D.gdp D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix	chi2(34)	=	64.8351
	Prob > chi2	=	0.0011

2-step moment functions, 3-step weighting matrix	chi2(34)	=	78.6627
	Prob > chi2	=	0.0000

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-4.7911** Prob > |z| = **0.0000**
H0: no autocorrelation of order 2: z = **-1.7477** Prob > |z| = **0.0805**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.02333175**
Step 2 f(b) = **.89580213**

Fitting reduced model 2:

Step 1 f(b) = **.84557794**

Group variable: **mun_id** Number of obs = **1051**
Time variable: **year** Number of groups = **81**

Moment conditions: linear = **59** Obs per group: min = **11**
nonlinear = **0** avg = **12.97531**
total = **59** max = **13**

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_total_expenses	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_total_expenses						
L1.	.5848103	.0606226	9.65	0.000	.4659922	.7036285
L2.	.2560559	.054691	4.68	0.000	.1488634	.3632484
elec_t	-.0181172	.0090343	-2.01	0.045	-.0358241	-.0004103
Age	-.0029648	.0017622	-1.68	0.092	-.0064186	.000489
sex						
Male	.0001404	.042491	0.00	0.997	-.0831405	.0834213
k_12centers	-.0013361	.0004994	-2.68	0.007	-.0023149	-.0003573
gdp	3.11e-08	2.70e-09	11.53	0.000	2.58e-08	3.64e-08
interest_rate	-.0214324	.0025459	-8.42	0.000	-.0264222	-.0164426
debt	-.010439	.0011694	-8.93	0.000	-.012731	-.008147
deficit	-4.94e-11	1.17e-08	-0.00	0.997	-2.30e-08	2.29e-08
party_type						
National	-.1092853	.0724266	-1.51	0.131	-.2512387	.0326681
Provincial	-.4827004	1.115498	-0.43	0.665	-2.669035	1.703635
win_margin	.0002868	.0014019	0.20	0.838	-.0024609	.0030345
abstentionism	.0010611	.0029922	0.35	0.723	-.0048035	.0069258
pop_share014	.0372183	.0055666	6.69	0.000	.0263079	.0481288
pop_share65plus	-.0253667	.0159839	-1.59	0.113	-.0566946	.0059613
_cons	1.969647	.5796711	3.40	0.001	.8335121	3.105781

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.l_rpc_total_expenses L2.L2.l_rpc_total_expenses
L3.L2.l_rpc_total_expenses L4.L2.l_rpc_total_expenses L1.Age L2.Age L3.Age
L4.Age L1.2.sex L2.2.sex L3.2.sex L4.2.sex L1.k_12centers L2.k_12centers
L3.k_12centers L4.k_12centers L1.gdp L2.gdp L3.gdp L4.gdp L2.debt L3.debt
L4.debt L1.deficit L2.deficit L3.deficit L4.deficit L1.2bn.party_type
L2.2bn.party_type L3.2bn.party_type L4.2bn.party_type L1.3.party_type
L2.3.party_type L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin
L3.win_margin L4.win_margin L1.abstentionism L2.abstentionism
L3.abstentionism L4.abstentionism L1.pop_share014 L2.pop_share014
L3.pop_share014 L4.pop_share014 L1.pop_share65plus L2.pop_share65plus
L3.pop_share65plus L4.pop_share65plus

2, model(level):

D.L.l_rpc_total_expenses D.L2.l_rpc_total_expenses D.Age D.2.sex
D.k_12centers D.gdp D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix $\chi^2(44) = 72.5600$
 Prob > $\chi^2 = 0.0043$

2-step moment functions, 3-step weighting matrix $\chi^2(44) = 79.2913$
 Prob > $\chi^2 = 0.0009$

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: $z = -4.9220$ Prob > $|z| = 0.0000$
 H0: no autocorrelation of order 2: $z = -1.6360$ Prob > $|z| = 0.1018$

Generalized method of moments estimation

Fitting full model:

Step 1 $f(b) = .01218008$

Step 2 $f(b) = .33907619$

Group variable: **mun_id** Number of obs = **1131**

Time variable: **year** Number of groups = **81**

Moment conditions: linear = **24** Obs per group: min = **11**
 nonlinear = **0** avg = **13.96296**
 total = **24** max = **14**

(Std. err. adjusted for **81** clusters in **mun_id**)

	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_total_expenses						
l_rpc_total_expenses						
L1.	.8866151	.0377823	23.47	0.000	.8125632	.960667
elec_t						
--.	-.0277548	.0195652	-1.42	0.156	-.0661018	.0105923
L1.	-.0272467	.0224808	-1.21	0.226	-.0713082	.0168148
Age	-.0005368	.0020812	-0.26	0.796	-.004616	.0035423
sex						
Male	-.0313397	.0435187	-0.72	0.471	-.1166347	.0539552
k_12centers	-.0002947	.0003658	-0.81	0.421	-.0010117	.0004223
gdp	1.09e-08	5.06e-09	2.15	0.032	9.65e-10	2.08e-08
interest_rate	-.0203098	.0063875	-3.18	0.001	-.0328291	-.0077905
debt	-.0099284	.0014356	-6.92	0.000	-.012742	-.0071147
deficit	6.18e-08	3.36e-08	1.84	0.066	-4.08e-09	1.28e-07
party_type						
National	-.0781521	.1343941	-0.58	0.561	-.3415596	.1852554
Provincial	-.2677985	.7663792	-0.35	0.727	-1.769874	1.234277
win_margin	.0016257	.002095	0.78	0.438	-.0024805	.0057318
abstentionism	.0003435	.0038292	0.09	0.929	-.0071616	.0078486
pop_share014	.0060577	.0146203	0.41	0.679	-.0225976	.0347131
pop_share65plus	.005696	.0259649	0.22	0.826	-.0451942	.0565862
_cons	2.193514	.7579535	2.89	0.004	.7079523	3.679075

Instruments corresponding to the linear moment conditions:

1, model(diff):

 L1.L1_rpc_total_expenses L1.Age L1.2.sex L1.k_12centers L1.gdp L1.debt
 L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin L1.abstentionism
 L1.pop_share014 L1.pop_share65plus

2, model(level):

 D.L1_rpc_total_expenses D.elec_t D.L.elec_t D.Age D.2.sex D.k_12centers
 D.gdp D.interest_rate D.debt D.deficit

3, model(level):

 _cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix $\chi^2(9) = 27.4652$
 Prob > $\chi^2 = 0.0012$

2-step moment functions, 3-step weighting matrix chi2(9) = 66.0366
 Prob > chi2 = 0.0000

Arellano-Bond test for autocorrelation of the first-differenced residuals
 H0: no autocorrelation of order 1: z = -4.9471 Prob > |z| = 0.0000
 H0: no autocorrelation of order 2: z = 1.5374 Prob > |z| = 0.1242

Generalized method of moments estimation

Fitting full model:
 Step 1 f(b) = .02283709
 Step 2 f(b) = .67039538

Fitting reduced model 2:
 Step 1 f(b) = .34799688

Group variable: **mun_id** Number of obs = 1131
 Time variable: **year** Number of groups = 81
 Moment conditions: linear = 38 Obs per group: min = 11
 nonlinear = 0 avg = 13.96296
 total = 38 max = 14

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_total_expenses	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_total_expenses						
L1.	.7951686	.0366459	21.70	0.000	.7233439	.8669933
elec_t						
--.	.0051044	.0114547	0.45	0.656	-.0173463	.0275551
L1.	-.0064826	.0109036	-0.59	0.552	-.0278533	.014888
Age	-.001787	.0018596	-0.96	0.337	-.0054317	.0018577
sex						
Male	.0062574	.0410055	0.15	0.879	-.0741118	.0866267
k_12centers	-.001556	.000616	-2.53	0.012	-.0027632	-.0003487
gdp	2.33e-08	2.31e-09	10.07	0.000	1.87e-08	2.78e-08
interest_rate	-.0211038	.0031349	-6.73	0.000	-.0272482	-.0149595
debt	-.0060084	.000842	-7.14	0.000	-.0076586	-.0043581
deficit	-3.22e-08	1.38e-08	-2.33	0.020	-5.92e-08	-5.14e-09
party_type						
National	-.0884806	.0882565	-1.00	0.316	-.2614601	.0844989
Provincial	-.0165891	1.015756	-0.02	0.987	-2.007434	1.974256
win_margin	.0007562	.0014547	0.52	0.603	-.002095	.0036074
abstentionism	-.0020339	.0032678	-0.62	0.534	-.0084388	.0043709
pop_share014	.0350224	.0053755	6.52	0.000	.0244865	.0455582
pop_share65plus	-.0287004	.0157257	-1.83	0.068	-.0595222	.0021214
_cons	2.776894	.4774536	5.82	0.000	1.841102	3.712686

Instruments corresponding to the linear moment conditions:

1, model(diff):
 L1.L1_rpc_total_expenses L2.L1_rpc_total_expenses L1.Age L2.Age L1.2.sex
 L2.2.sex L1.k_12centers L2.k_12centers L1.gdp L2.gdp L2.interest_rate
 L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type L2.2bn.party_type
 L1.3.party_type L2.3.party_type L1.win_margin L2.win_margin
 L1.abstentionism L2.abstentionism L1.pop_share014 L2.pop_share014
 L1.pop_share65plus L2.pop_share65plus
 2, model(level):
 D.L1_rpc_total_expenses D.elec_t D.L.elec_t D.Age D.2.sex D.k_12centers
 D.gdp D.interest_rate D.debt D.deficit
 3, model(level):
 _cons

Sargan-Hansen test of the overidentifying restrictions
 H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix $\chi^2(23) = 54.3020$
 Prob > $\chi^2 = 0.0002$

2-step moment functions, 3-step weighting matrix $\chi^2(23) = 75.8353$
 Prob > $\chi^2 = 0.0000$

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: $z = -4.2420$ Prob > $|z| = 0.0000$
 H0: no autocorrelation of order 2: $z = 2.3609$ Prob > $|z| = 0.0182$

Generalized method of moments estimation

Fitting full model:

Step 1 $f(b) = .02679448$
 Step 2 $f(b) = .7983684$

Fitting reduced model 2:

Step 1 $f(b) = .65440096$

Group variable: **mun_id** Number of obs = 1131
 Time variable: **year** Number of groups = 81

Moment conditions: linear = 49 Obs per group: min = 11
 nonlinear = 0 avg = 13.96296
 total = 49 max = 14

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_total_expenses	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_total_expenses						
L1.	.8148879	.0315387	25.84	0.000	.7530732	.8767026
elec_t						
--	.0030332	.0120111	0.25	0.801	-.0205081	.0265744
L1.	-.0077563	.0127947	-0.61	0.544	-.0328334	.0173209
Age	-.0017575	.0019821	-0.89	0.375	-.0056422	.0021273
sex						
Male	-.000639	.0416111	-0.02	0.988	-.0821954	.0809173
k_12centers	-.0014348	.0006205	-2.31	0.021	-.0026509	-.0002186
gdp	2.36e-08	2.54e-09	9.30	0.000	1.86e-08	2.86e-08
interest_rate	-.0232587	.0032896	-7.07	0.000	-.0297061	-.0168112
debt	-.0063759	.000812	-7.85	0.000	-.0079674	-.0047844
deficit	-2.33e-08	1.58e-08	-1.48	0.140	-5.43e-08	7.65e-09
party_type						
National	-.0725875	.0822048	-0.88	0.377	-.233706	.088531
Provincial	-.4613362	.9241898	-0.50	0.618	-2.272715	1.350043
win_margin	.0007262	.0014433	0.50	0.615	-.0021026	.003555
abstentionism	-.0023494	.0032	-0.73	0.463	-.0086213	.0039225
pop_share014	.0357301	.0055815	6.40	0.000	.0247906	.0466697
pop_share65plus	-.0329185	.0148001	-2.22	0.026	-.0619261	-.0039109
_cons	2.512375	.425961	5.90	0.000	1.677507	3.347243

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L1.rpc_total_expenses L2.L1.rpc_total_expenses
 L3.L1.rpc_total_expenses L1.Age L2.Age L3.Age L1.2.sex L2.2.sex L3.2.sex
 L1.k_12centers L2.k_12centers L3.k_12centers L1.gdp L2.gdp L3.gdp
 L1.interest_rate L2.interest_rate L3.interest_rate L2.debt L3.debt
 L1.deficit L2.deficit L3.deficit L1.2bn.party_type L2.2bn.party_type
 L3.2bn.party_type L1.3.party_type L2.3.party_type L3.3.party_type
 L1.win_margin L2.win_margin L3.win_margin L1.abstentionism L2.abstentionism
 L3.abstentionism L1.pop_share014 L2.pop_share014 L3.pop_share014
 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus

2, model(level):

D.L1.rpc_total_expenses D.Age D.2.sex D.k_12centers D.gdp D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(34) = 64.6678
Prob > chi2 = 0.0012

2-step moment functions, 3-step weighting matrix chi2(34) = 79.4657
Prob > chi2 = 0.0000

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = -4.3425 Prob > |z| = 0.0000
H0: no autocorrelation of order 2: z = 2.4839 Prob > |z| = 0.0130

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .02805839
Step 2 f(b) = .83348992

Fitting reduced model 2:

Step 1 f(b) = .75509272

Group variable: **mun_id** Number of obs = 1131
Time variable: **year** Number of groups = 81

Moment conditions: linear = 59 Obs per group: min = 11
 nonlinear = 0 avg = 13.96296
 total = 59 max = 14

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_total_expenses	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_total_expenses						
L1.	.8189093	.0310322	26.39	0.000	.7580874	.8797312
elec_t						
--.	.0031176	.0113098	0.28	0.783	-.0190493	.0252844
L1.	-.005404	.0136758	-0.40	0.693	-.032208	.0214
Age	-.0021033	.0018556	-1.13	0.257	-.0057402	.0015336
sex						
Male	.0004432	.0391478	0.01	0.991	-.0762851	.0771715
k_12centers	-.0013889	.0005456	-2.55	0.011	-.0024583	-.0003195
gdp	2.34e-08	2.62e-09	8.94	0.000	1.83e-08	2.86e-08
interest_rate	-.0225463	.0034311	-6.57	0.000	-.0292711	-.0158215
debt	-.0063393	.0007676	-8.26	0.000	-.0078438	-.0048348
deficit	-2.64e-08	1.54e-08	-1.71	0.087	-5.67e-08	3.87e-09
party_type						
National	-.0807273	.0702353	-1.15	0.250	-.2183859	.0569313
Provincial	-.3895112	.8665768	-0.45	0.653	-2.08797	1.308948
win_margin	.0005267	.0012863	0.41	0.682	-.0019944	.0030479
abstentionism	-.002084	.0029431	-0.71	0.479	-.0078524	.0036844
pop_share014	.0355612	.0057382	6.20	0.000	.0243145	.0468079
pop_share65plus	-.0335205	.0150925	-2.22	0.026	-.0631012	-.0039398
_cons	2.457697	.3977897	6.18	0.000	1.678043	3.23735

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L.1_rpc_total_expenses L2.L.1_rpc_total_expenses
L3.L.1_rpc_total_expenses L4.L.1_rpc_total_expenses L1.Age L2.Age L3.Age
L4.Age L1.2.sex L2.2.sex L3.2.sex L4.2.sex L1.k_12centers L2.k_12centers
L3.k_12centers L4.k_12centers L1.gdp L2.gdp L3.gdp L4.gdp L4.interest_rate
L2.debt L3.debt L4.debt L1.deficit L2.deficit L3.deficit L4.deficit
L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L4.2bn.party_type
L1.3.party_type L2.3.party_type L3.3.party_type L4.3.party_type


```

L1.win_margin L2.win_margin L3.win_margin L4.win_margin L1.abstentionism
L2.abstentionism L3.abstentionism L4.abstentionism L1.pop_share014
L2.pop_share014 L3.pop_share014 L4.pop_share014 L1.pop_share65plus
L2.pop_share65plus L3.pop_share65plus L4.pop_share65plus
2, model(level):
D.L1_rpc_total_expenses D.Age D.2.sex D.k_12centers D.gdp D.deficit
3, model(level):
_cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(44) = 67.5127
Prob > chi2 = 0.0129

2-step moment functions, 3-step weighting matrix chi2(44) = 79.9570
Prob > chi2 = 0.0007

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = -4.2611 Prob > |z| = 0.0000
H0: no autocorrelation of order 2: z = 2.4325 Prob > |z| = 0.0150

Generalized method of moments estimation

Fitting full model:
Step 1 f(b) = .00974509
Step 2 f(b) = .49188793

Group variable: **mun_id** Number of obs = 1051
Time variable: **year** Number of groups = 81

Moment conditions: linear = 25 Obs per group: min = 11
 nonlinear = 0 avg = 12.97531
 total = 25 max = 13

(Std. err. adjusted for 81 clusters in **mun_id**)

	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_total_expenses						
l_rpc_total_expenses						
L1.	.7605687	.1348883	5.64	0.000	.4961924	1.024945
L2.	.1823697	.0970632	1.88	0.060	-.0078706	.3726101
elec_t						
--.	-.0055478	.0190072	-0.29	0.770	-.0428011	.0317056
L1.	.0095428	.0181473	0.53	0.599	-.0260253	.045111
Age	-.0024352	.00256	-0.95	0.341	-.0074528	.0025824
sex						
Male	.0833821	.0511827	1.63	0.103	-.0169342	.1836984
k_12centers	-.0013697	.0004584	-2.99	0.003	-.0022681	-.0004713
gdp	3.09e-08	7.16e-09	4.32	0.000	1.69e-08	4.50e-08
interest_rate	-.0242018	.0090091	-2.69	0.007	-.0418594	-.0065442
debt	-.0108414	.003599	-3.01	0.003	-.0178953	-.0037875
deficit	-3.57e-08	2.74e-08	-1.30	0.192	-8.93e-08	1.79e-08
party_type						
National	-.0251342	.079855	-0.31	0.753	-.1816472	.1313787
Provincial	1.455745	1.274707	1.14	0.253	-1.042634	3.954124
win_margin	-.0009785	.003783	-0.26	0.796	-.008393	.0064361
abstentionism	.0031117	.0054079	0.58	0.565	-.0074875	.0137109
pop_share014	.0440554	.0107285	4.11	0.000	.0230279	.0650828
pop_share65plus	-.030331	.0181823	-1.67	0.095	-.0659676	.0053057
_cons	-.0273175	1.7689	-0.02	0.988	-3.494298	3.439663

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
L1.L2.l_rpc_total_expenses L1.Age L1.2.sex L1.k_12centers L1.gdp
L1.interest_rate L1.debt L1.deficit L1.2bn.party_type L1.3.party_type

```

```

L1.win_margin L1.abstentionism L1.pop_share014 L1.pop_share65plus
2, model(level):
  D.L1_rpc_total_expenses D.L2.1_rpc_total_expenses D.elec_t D.L.elec_t
  D.Age D.2.sex D.k_12centers D.gdp D.interest_rate D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(9) = 39.8429
Prob > chi2 = 0.0000

2-step moment functions, 3-step weighting matrix chi2(9) = 67.8197
Prob > chi2 = 0.0000

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = -3.3066 Prob > |z| = 0.0009
H0: no autocorrelation of order 2: z = -0.6559 Prob > |z| = 0.5119

Generalized method of moments estimation

Fitting full model:
Step 1 f(b) = .01896057
Step 2 f(b) = .59851027

Fitting reduced model 2:
Step 1 f(b) = .39140531

Group variable: **mun_id** Number of obs = 1051
Time variable: **year** Number of groups = 81

Moment conditions: linear = 39 Obs per group: min = 11
 nonlinear = 0 avg = 12.97531
 total = 39 max = 13

(Std. err. adjusted for 81 clusters in **mun_id**)

	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_total_expenses						
l_rpc_total_expenses						
L1.	.5114419	.0600518	8.52	0.000	.3937425	.6291413
L2.	.2688542	.0442943	6.07	0.000	.1820389	.3556694
elec_t						
--.	-.0057322	.0119388	-0.48	0.631	-.0291318	.0176674
L1.	.0014128	.0120312	0.12	0.907	-.0221679	.0249936
Age	-.0023581	.0019442	-1.21	0.225	-.0061686	.0014525
sex						
Male	.0188615	.0427511	0.44	0.659	-.0649291	.1026521
k_12centers	-.0018731	.00067	-2.80	0.005	-.0031862	-.00056
gdp	3.19e-08	2.51e-09	12.73	0.000	2.70e-08	3.68e-08
interest_rate	-.0196189	.0034401	-5.70	0.000	-.0263614	-.0128764
debt	-.0087497	.001305	-6.70	0.000	-.0113074	-.006192
deficit	-1.36e-08	1.80e-08	-0.75	0.452	-4.89e-08	2.18e-08
party_type						
National	-.0792406	.0874811	-0.91	0.365	-.2507003	.0922191
Provincial	.1829296	1.026718	0.18	0.859	-1.8294	2.19526
win_margin	.0006248	.0015626	0.40	0.689	-.0024379	.0036875
abstentionism	-.0014158	.002839	-0.50	0.618	-.0069801	.0041484
pop_share014	.0408117	.0057766	7.07	0.000	.0294898	.0521335
pop_share65plus	-.035429	.0141275	-2.51	0.012	-.0631183	-.0077397
_cons	2.868194	.5901123	4.86	0.000	1.711595	4.024793

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L2.1_rpc_total_expenses L2.L2.1_rpc_total_expenses L1.Age L2.Age

```

```

L1.2.sex L2.2.sex L1.k_12centers L2.k_12centers L1.gdp L2.gdp
L1.interest_rate L2.interest_rate L2.debt L1.deficit L2.deficit
L1.2bn.party_type L2.2bn.party_type L1.3.party_type L2.3.party_type
L1.win_margin L2.win_margin L1.abstentionism L2.abstentionism
L1.pop_share014 L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
2, model(level):
  D.L1_rpc_total_expenses D.L2.1_rpc_total_expenses D.elec_t D.L.elec_t
  D.Age D.2.sex D.k_12centers D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(23) = **48.4793**
Prob > chi2 = **0.0015**

2-step moment functions, 3-step weighting matrix chi2(23) = **76.6505**
Prob > chi2 = **0.0000**

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = **-4.5889** Prob > |z| = **0.0000**
H0: no autocorrelation of order 2: z = **-2.0606** Prob > |z| = **0.0393**

Generalized method of moments estimation

Fitting full model:
Step 1 f(b) = **.02090213**
Step 2 f(b) = **.73634597**

Fitting reduced model 2:
Step 1 f(b) = **.65451379**

Group variable: **mun_id** Number of obs = **1051**
Time variable: **year** Number of groups = **81**

Moment conditions: linear = **49** Obs per group: min = **11**
 nonlinear = **0** avg = **12.97531**
 total = **49** max = **13**

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_total_expenses	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_total_expenses						
L1.	.5562573	.0599261	9.28	0.000	.4388043	.6737104
L2.	.2572497	.0526052	4.89	0.000	.1541454	.3603539
elec_t						
--.	-.0122903	.0122396	-1.00	0.315	-.0362796	.011699
L1.	-.001213	.0133129	-0.09	0.927	-.0273058	.0248797
Age	-.0029334	.0019223	-1.53	0.127	-.006701	.0008342
sex						
Male	.0032936	.0417277	0.08	0.937	-.0784912	.0850784
k_12centers	-.0014897	.0005524	-2.70	0.007	-.0025724	-.000407
gdp	3.13e-08	2.79e-09	11.22	0.000	2.59e-08	3.68e-08
interest_rate	-.0215796	.0037926	-5.69	0.000	-.0290131	-.0141462
debt	-.0098206	.0012855	-7.64	0.000	-.0123401	-.0073011
deficit	-5.28e-09	1.89e-08	-0.28	0.780	-4.22e-08	3.17e-08
party_type						
National	-.113677	.0834441	-1.36	0.173	-.2772245	.0498704
Provincial	-.5566594	1.088446	-0.51	0.609	-2.689975	1.576656
win_margin	.0009947	.0014722	0.68	0.499	-.0018907	.0038801
abstentionism	-.0007839	.0029562	-0.27	0.791	-.006578	.0050102
pop_share014	.0382251	.0054025	7.08	0.000	.0276364	.0488137
pop_share65plus	-.0284894	.0161034	-1.77	0.077	-.0600514	.0030726
_cons	2.470508	.577413	4.28	0.000	1.338799	3.602217

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L2.l_rpc_total_expenses L2.L2.l_rpc_total_expenses
  L3.L2.l_rpc_total_expenses L1.Age L2.Age L3.Age L1.2.sex L2.2.sex L3.2.sex
  L1.k_12centers L2.k_12centers L3.k_12centers L1.gdp L2.gdp L3.gdp
  L2.interest_rate L3.interest_rate L2.debt L3.debt L1.deficit L2.deficit
  L3.deficit L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type
  L1.3.party_type L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin
  L3.win_margin L1.abstentionism L2.abstentionism L3.abstentionism
  L1.pop_share014 L2.pop_share014 L3.pop_share014 L1.pop_share65plus
  L2.pop_share65plus L3.pop_share65plus
2, model(level):
  D.L.l_rpc_total_expenses D.L2.l_rpc_total_expenses D.Age D.2.sex
  D.k_12centers D.gdp D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

```
2-step moment functions, 2-step weighting matrix      chi2(33)      =    59.6440
                                                        Prob > chi2    =    0.0030
```

```
2-step moment functions, 3-step weighting matrix      chi2(33)      =    78.7094
                                                        Prob > chi2    =    0.0000
```

Arellano-Bond test for autocorrelation of the first-differenced residuals

```
H0: no autocorrelation of order 1:      z =    -4.9020      Prob > |z|    =    0.0000
H0: no autocorrelation of order 2:      z =    -1.7538      Prob > |z|    =    0.0795
```

Generalized method of moments estimation

Fitting full model:

```
Step 1      f(b) =    .02325825
Step 2      f(b) =    .83495847
```

Fitting reduced model 2:

```
Step 1      f(b) =    .73304448
```

```
Group variable: mun_id      Number of obs      =    1051
Time variable: year      Number of groups    =    81
```

```
Moment conditions:      linear =    59      Obs per group:      min =    11
                        nonlinear =    0      avg =    12.97531
                        total =    59      max =    13
```

(Std. err. adjusted for 81 clusters in mun_id)

	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_total_expenses						
l_rpc_total_expenses						
L1.	.5855103	.0623165	9.40	0.000	.4633722	.7076485
L2.	.259086	.0546845	4.74	0.000	.1519064	.3662657
elec_t						
--.	-.0147752	.0116167	-1.27	0.203	-.0375435	.0079932
L1.	-.0012082	.0141055	-0.09	0.932	-.0288544	.0264381
Age	-.003314	.0016481	-2.01	0.044	-.0065443	-.0000837
sex						
Male	.0026111	.0380224	0.07	0.945	-.0719114	.0771337
k_12centers	-.0012395	.0004498	-2.76	0.006	-.0021212	-.0003578
gdp	3.06e-08	2.84e-09	10.80	0.000	2.51e-08	3.62e-08
interest_rate	-.0220903	.0038307	-5.77	0.000	-.0295984	-.0145822
debt	-.010344	.0011147	-9.28	0.000	-.0125287	-.0081594
deficit	-4.21e-09	1.79e-08	-0.24	0.814	-3.93e-08	3.09e-08
party_type						
National	-.1203627	.0572804	-2.10	0.036	-.2326301	-.0080952

Provincial	-.4434364	.9860951	-0.45	0.653	-2.376147	1.489275
win_margin	.0003408	.0012834	0.27	0.791	-.0021745	.0028561
abstentionism	.0006578	.0027067	0.24	0.808	-.0046472	.0059629
pop_share014	.0367539	.0057844	6.35	0.000	.0254166	.0480911
pop_share65plus	-.0275823	.0170977	-1.61	0.107	-.0610932	.0059285
_cons	1.997036	.5970217	3.34	0.001	.8268952	3.167177

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L2.1_rpc_total_expenses L2.L2.1_rpc_total_expenses
  L3.L2.1_rpc_total_expenses L4.L2.1_rpc_total_expenses L1.Age L2.Age L3.Age
  L4.Age L1.2.sex L2.2.sex L3.2.sex L4.2.sex L1.k_12centers L2.k_12centers
  L3.k_12centers L4.k_12centers L1.gdp L2.gdp L3.gdp L4.gdp L2.debt L3.debt
  L4.debt L1.deficit L2.deficit L3.deficit L4.deficit L1.2bn.party_type
  L2.2bn.party_type L3.2bn.party_type L4.2bn.party_type L1.3.party_type
  L2.3.party_type L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin
  L3.win_margin L4.win_margin L1.abstentionism L2.abstentionism
  L3.abstentionism L4.abstentionism L1.pop_share014 L2.pop_share014
  L3.pop_share014 L4.pop_share014 L1.pop_share65plus L2.pop_share65plus
  L3.pop_share65plus L4.pop_share65plus
2, model(level):
  D.L.1_rpc_total_expenses D.L2.1_rpc_total_expenses D.Age D.2.sex
  D.k_12centers D.gdp D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(43) = **67.6316**
 Prob > chi2 = **0.0096**

2-step moment functions, 3-step weighting matrix chi2(43) = **79.3029**
 Prob > chi2 = **0.0006**

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-4.9363** Prob > |z| = **0.0000**

H0: no autocorrelation of order 2: z = **-1.6667** Prob > |z| = **0.0956**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.00720393**

Step 2 f(b) = **.26741975**

Fitting reduced model 2:

Step 1 f(b) = **3.206e-21**

Group variable: **mun_id** Number of obs = **1125**

Time variable: **year** Number of groups = **81**

Moment conditions: linear = **24** Obs per group: min = **11**
 nonlinear = **0** avg = **13.88889**
 total = **24** max = **14**

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_remu_bas	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_remu_bas						
L1.	.8006194	.1723888	4.64	0.000	.4627435	1.138495
elec_t	-.027498	.0245336	-1.12	0.262	-.075583	.0205869
Age	.0021128	.0027764	0.76	0.447	-.0033289	.0075544
sex						
Male	-.0790215	.056932	-1.39	0.165	-.1906062	.0325632
k_12centers	-.0008135	.0005221	-1.56	0.119	-.0018368	.0002098
gdp	1.64e-08	8.76e-09	1.87	0.062	-8.06e-10	3.35e-08
interest_rate	-.009609	.008058	-1.19	0.233	-.0254025	.0061845

debt	-.0069191	.0019182	-3.61	0.000	-.0106788	-.0031594
deficit	5.29e-08	2.38e-08	2.22	0.027	6.13e-09	9.96e-08
party_type						
National	.1654285	.1922502	0.86	0.390	-.2113749	.5422319
Provincial	3.596202	2.330294	1.54	0.123	-.9710911	8.163494
win_margin	.0000479	.0030699	0.02	0.988	-.005969	.0060648
abstentionism	.0097572	.0061469	1.59	0.112	-.0022905	.0218049
pop_share014	.0185554	.0155012	1.20	0.231	-.0118264	.0489373
pop_share65plus	.0537942	.0334658	1.61	0.108	-.0117976	.119386
_cons	.4405626	1.3931	0.32	0.752	-2.289863	3.170988

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L1_rpc_remu_bas L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
L1.abstentionism L1.pop_share014 L1.pop_share65plus

2, model(level):

D.L1_rpc_remu_bas D.elec_t D.Age D.2.sex D.k_12centers D.gdp
D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(10) = 21.6610
Prob > chi2 = 0.0169

2-step moment functions, 3-step weighting matrix chi2(10) = 30.9441
Prob > chi2 = 0.0006

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -3.6445 Prob > |z| = 0.0003

H0: no autocorrelation of order 2: z = -0.6159 Prob > |z| = 0.5379

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .0144905

Step 2 f(b) = .44560892

Fitting reduced model 2:

Step 1 f(b) = .28976136

Group variable: **mun_id** Number of obs = 1125

Time variable: **year** Number of groups = 81

Moment conditions: linear = 38 Obs per group: min = 11
 nonlinear = 0 avg = 13.88889
 total = 38 max = 14

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_remu_bas	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_remu_bas						
L1.	.7569144	.1225609	6.18	0.000	.5166994	.9971294
elec_t	-.0229017	.0149627	-1.53	0.126	-.0522281	.0064246
Age	-.0000598	.0021781	-0.03	0.978	-.0043289	.0042092
sex						
Male	-.0104219	.0539441	-0.19	0.847	-.1161503	.0953066
k_12centers	-.0009818	.0003556	-2.76	0.006	-.0016787	-.0002848
gdp	1.77e-08	4.09e-09	4.31	0.000	9.63e-09	2.57e-08
interest_rate	-.0093909	.0051736	-1.82	0.069	-.0195309	.0007491
debt	-.0061793	.0009708	-6.37	0.000	-.0080821	-.0042766
deficit	4.97e-08	2.01e-08	2.48	0.013	1.04e-08	8.91e-08

party_type						
National	.2673488	.287068	0.93	0.352	-.2952941	.8299917
Provincial	1.256023	1.313206	0.96	0.339	-1.317813	3.82986
win_margin	-.0015446	.0038656	-0.40	0.689	-.0091211	.0060318
abstentionism	.0055902	.0035288	1.58	0.113	-.0013261	.0125066
pop_share014	.0201477	.0096663	2.08	0.037	.0012021	.0390932
pop_share65plus	.0485643	.0139429	3.48	0.000	.0212368	.0758919
_cons	1.04173	1.224828	0.85	0.395	-1.358889	3.442349

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L1_rpc_remu_bas L2.L1_rpc_remu_bas L1.Age L2.Age L1.2.sex L2.2.sex
  L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
  L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
  L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
  L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
  L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
2, model(level):
  D.L1_rpc_remu_bas D.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(24) = 36.0943
 Prob > chi2 = 0.0537

2-step moment functions, 3-step weighting matrix chi2(24) = 38.4333
 Prob > chi2 = 0.0313

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -3.7417 Prob > |z| = 0.0002

H0: no autocorrelation of order 2: z = -0.4487 Prob > |z| = 0.6536

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .02993553

Step 2 f(b) = .62311905

Fitting reduced model 2:

Step 1 f(b) = .55259583

Group variable: **mun_id** Number of obs = 1125

Time variable: **year** Number of groups = 81

Moment conditions: linear = 51 Obs per group: min = 11
 nonlinear = 0 avg = 13.88889
 total = 51 max = 14

(Std. err. adjusted for 81 clusters in **mun_id**)

	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_remu_bas						
l_rpc_remu_bas L1.	.7091217	.1138576	6.23	0.000	.485965	.9322784
elec_t	-.0256549	.0121961	-2.10	0.035	-.0495587	-.001751
Age	.0002846	.0025915	0.11	0.913	-.0047947	.0053639
sex						
Male	-.0021832	.0431721	-0.05	0.960	-.0867989	.0824326
k_12centers	-.0005949	.0003728	-1.60	0.111	-.0013256	.0001358
gdp	1.82e-08	3.39e-09	5.35	0.000	1.15e-08	2.48e-08
interest_rate	-.006452	.0050444	-1.28	0.201	-.0163389	.0034349
debt	-.0063899	.0011754	-5.44	0.000	-.0086937	-.0040861
deficit	6.71e-08	1.95e-08	3.44	0.001	2.89e-08	1.05e-07

party_type						
National	.3106775	.2493391	1.25	0.213	-.1780181	.7993732
Provincial	-.2295552	1.487405	-0.15	0.877	-3.144816	2.685705
win_margin	-.0019518	.0034882	-0.56	0.576	-.0087885	.0048848
abstentionism	.0031645	.0044079	0.72	0.473	-.0054749	.0118039
pop_share014	.0154246	.0075854	2.03	0.042	.0005575	.0302916
pop_share65plus	.0473551	.0199405	2.37	0.018	.0082724	.0864378
_cons	1.664962	1.117306	1.49	0.136	-.5249178	3.854841

Instruments corresponding to the linear moment conditions:

- 1, model(diff):
 - L1.L.1_rpc_remu_bas L2.L.1_rpc_remu_bas L3.L.1_rpc_remu_bas L1.Age L2.Age
 - L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
 - L3.k_12centers L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate
 - L3.interest_rate L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit
 - L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L1.3.party_type
 - L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
 - L1.abstentionism L2.abstentionism L3.abstentionism L1.pop_share014
 - L2.pop_share014 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus
 - L3.pop_share65plus
- 2, model(level):
 - D.L.1_rpc_remu_bas D.Age D.2.sex D.k_12centers D.gdp D.interest_rate D.debt
 - D.deficit
- 3, model(level):
 - _cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(37) = 50.4726
 Prob > chi2 = 0.0689

2-step moment functions, 3-step weighting matrix chi2(37) = 58.9496
 Prob > chi2 = 0.0124

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -3.7031 Prob > |z| = 0.0002

H0: no autocorrelation of order 2: z = -0.3289 Prob > |z| = 0.7423

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .03244589

Step 2 f(b) = .70225137

Fitting reduced model 2:

Step 1 f(b) = .5979997

Group variable: **mun_id** Number of obs = 1125

Time variable: **year** Number of groups = 81

Moment conditions: linear = 61 Obs per group: min = 11
 nonlinear = 0 avg = 13.88889
 total = 61 max = 14

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_remu_bas	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_remu_bas						
L1.	.7182443	.1007706	7.13	0.000	.5207375	.9157511
elec_t	-.0225007	.011827	-1.90	0.057	-.0456811	.0006797
Age	.0001483	.0024298	0.06	0.951	-.004614	.0049106
sex						
Male	-.0050294	.0422265	-0.12	0.905	-.0877919	.077733
k_12centers	-.0005522	.0002924	-1.89	0.059	-.0011254	.0000209
gdp	1.79e-08	3.41e-09	5.24	0.000	1.12e-08	2.46e-08
interest_rate	-.0043872	.0043712	-1.00	0.316	-.0129547	.0041803

debt	-.0063114	.0011453	-5.51	0.000	-.0085562	-.0040667
deficit	6.98e-08	2.01e-08	3.47	0.001	3.04e-08	1.09e-07
party_type						
National	.3971463	.2662099	1.49	0.136	-.1246155	.9189081
Provincial	.3590078	1.097692	0.33	0.744	-1.792429	2.510445
win_margin	-.0012089	.0021298	-0.57	0.570	-.0053833	.0029654
abstentionism	.0032902	.0038192	0.86	0.389	-.0041953	.0107757
pop_share014	.0136816	.0085129	1.61	0.108	-.0030035	.0303666
pop_share65plus	.0430445	.0219256	1.96	0.050	.0000711	.0860179
_cons	1.544425	1.029812	1.50	0.134	-.4739693	3.562818

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L.1_rpc_remu_bas L2.L.1_rpc_remu_bas L3.L.1_rpc_remu_bas
 L4.L.1_rpc_remu_bas L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex
 L4.2.sex L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp
 L2.gdp L3.gdp L4.gdp L4.interest_rate L2.debt L3.debt L4.debt L1.deficit
 L2.deficit L3.deficit L4.deficit L1.2bn.party_type L2.2bn.party_type
 L3.2bn.party_type L4.2bn.party_type L1.3.party_type L2.3.party_type
 L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin L3.win_margin
 L4.win_margin L1.abstentionism L2.abstentionism L3.abstentionism
 L4.abstentionism L1.pop_share014 L2.pop_share014 L3.pop_share014
 L4.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus
 L4.pop_share65plus

2, model(level):

D.L.1_rpc_remu_bas D.Age D.2.sex D.k_12centers D.gdp D.interest_rate D.debt
 D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(47) = 56.8824
 Prob > chi2 = 0.1531

2-step moment functions, 3-step weighting matrix chi2(47) = 65.3765
 Prob > chi2 = 0.0392

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -3.8726 Prob > |z| = 0.0001

H0: no autocorrelation of order 2: z = -0.3132 Prob > |z| = 0.7541

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .01045507

Step 2 f(b) = .15506712

Fitting reduced model 2:

Step 1 f(b) = 1.464e-16

Group variable: mun_id

Number of obs = 1042

Time variable: year

Number of groups = 81

Moment conditions: linear = 25 Obs per group: min = 10
 nonlinear = 0 avg = 12.8642
 total = 25 max = 13

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_remu_bas	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_remu_bas						
L1.	.8089739	.1228753	6.58	0.000	.5681428	1.049805
L2.	.0490027	.0964666	0.51	0.611	-.1400683	.2380736
elec_t	-.0376351	.0216211	-1.74	0.082	-.0800116	.0047415
Age	.0012781	.0045673	0.28	0.780	-.0076737	.0102299
sex						
Male	-.0843375	.0790879	-1.07	0.286	-.2393469	.0706718
k_12centers	-.0002072	.0006742	-0.31	0.759	-.0015286	.0011143
gdp	2.26e-08	8.28e-09	2.73	0.006	6.36e-09	3.88e-08
interest_rate	-.0117552	.0073505	-1.60	0.110	-.0261619	.0026516
debt	-.0121496	.0036669	-3.31	0.001	-.0193365	-.0049627
deficit	9.02e-08	4.69e-08	1.92	0.054	-1.71e-09	1.82e-07
party_type						
National	.1976189	.4629987	0.43	0.670	-.7098419	1.10508
Provincial	-1.130049	3.071831	-0.37	0.713	-7.150727	4.890628
win_margin	.0012793	.0042445	0.30	0.763	-.0070398	.0095984
abstentionism	.0085146	.008367	1.02	0.309	-.0078845	.0249136
pop_share014	.0232075	.0149761	1.55	0.121	-.006145	.0525601
pop_share65plus	.0927751	.0390064	2.38	0.017	.016324	.1692263
_cons	-.2927459	1.20345	-0.24	0.808	-2.651465	2.065973

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L2.1_rpc_remu_bas L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
  L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
  L1.abstentionism L1.pop_share014 L1.pop_share65plus
2, model(level):
  D.L.1_rpc_remu_bas D.L2.1_rpc_remu_bas D.elec_t D.Age D.2.sex D.k_12centers
  D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(10)    =    12.5604
                                                         Prob > chi2 =    0.2493

```

```

2-step moment functions, 3-step weighting matrix      chi2(10)    =    16.8915
                                                         Prob > chi2 =    0.0768

```

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-3.1235** Prob > |z| = **0.0018**H0: no autocorrelation of order 2: z = **-1.6273** Prob > |z| = **0.1037**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.01965146**Step 2 f(b) = **.43366825**

Fitting reduced model 2:

Step 1 f(b) = **.25937465**Group variable: **mun_id**Number of obs = **1042**Time variable: **year**Number of groups = **81**

```

Moment conditions:  linear =    39      Obs per group:  min =    10
                   nonlinear =    0                      avg =   12.8642
                   total =    39                      max =    13

```

(Std. err. adjusted for 81 clusters in `mun_id`)

<code>l_rpc_remu_bas</code>	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
<code>l_rpc_remu_bas</code>						
L1.	.7376653	.1363282	5.41	0.000	.470467	1.004864
L2.	-.0494921	.085643	-0.58	0.563	-.2173493	.118365
elec_t	-.0346834	.0181232	-1.91	0.056	-.0702043	.0008375
Age	.0036586	.0029953	1.22	0.222	-.0022122	.0095294
sex						
Male	-.0731267	.0627609	-1.17	0.244	-.1961359	.0498825
k_12centers	.0000622	.0005534	0.11	0.911	-.0010224	.0011468
gdp	1.83e-08	4.27e-09	4.29	0.000	9.93e-09	2.67e-08
interest_rate	-.0065907	.0057883	-1.14	0.255	-.0179356	.0047542
debt	-.0080657	.0015177	-5.31	0.000	-.0110404	-.0050911
deficit	8.60e-08	2.96e-08	2.90	0.004	2.80e-08	1.44e-07
party_type						
National	.1046012	.3156454	0.33	0.740	-.5140525	.7232548
Provincial	-3.230824	2.892043	-1.12	0.264	-8.899124	2.437477
win_margin	.0004065	.0034766	0.12	0.907	-.0064075	.0072205
abstentionism	.006174	.0057566	1.07	0.283	-.0051087	.0174568
pop_share014	.0053927	.0140992	0.38	0.702	-.0222413	.0330267
pop_share65plus	.0646534	.0189584	3.41	0.001	.0274955	.1018112
_cons	1.919468	1.380667	1.39	0.164	-.7865886	4.625525

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L2.1_rpc_remu_bas L2.L2.1_rpc_remu_bas L1.Age L2.Age L1.2.sex L2.2.sex
  L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
  L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
  L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
  L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
  L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
2, model(level):
  D.L.1_rpc_remu_bas D.L2.1_rpc_remu_bas D.elec_t D.Age D.2.sex D.k_12centers
  D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(24)    =   35.1271
                                                         Prob > chi2 =    0.0665

```

```

2-step moment functions, 3-step weighting matrix      chi2(24)    =   52.2433
                                                         Prob > chi2 =    0.0007

```

Arellano-Bond test for autocorrelation of the first-differenced residuals

```

H0: no autocorrelation of order 1:      z =   -3.5417   Prob > |z| =    0.0004
H0: no autocorrelation of order 2:      z =    0.3261   Prob > |z| =    0.7443

```

Generalized method of moments estimation

Fitting full model:

```

Step 1      f(b) = .02527931
Step 2      f(b) = .54389301

```

Fitting reduced model 2:

```

Step 1      f(b) = .3994942

```

Group variable: `mun_id`

Number of obs = 1042

Time variable: `year`

Number of groups = 81

Moment conditions: linear = 51 Obs per group: min = 10
 nonlinear = 0 avg = 12.8642
 total = 51 max = 13

(Std. err. adjusted for 81 clusters in `mun_id`)

<code>l_rpc_remu_bas</code>	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
<code>l_rpc_remu_bas</code>						
L1.	.6888727	.1340992	5.14	0.000	.4260432	.9517022
L2.	-.0260421	.0732891	-0.36	0.722	-.1696861	.1176019
elec_t	-.028286	.0138708	-2.04	0.041	-.0554722	-.0010997
Age	.0007743	.0026299	0.29	0.768	-.0043802	.0059289
sex						
Male	.0030817	.0531694	0.06	0.954	-.1011284	.1072918
k_12centers	-.00037	.0004587	-0.81	0.420	-.0012689	.000529
gdp	1.84e-08	3.67e-09	5.03	0.000	1.13e-08	2.56e-08
interest_rate	-.0065648	.005067	-1.30	0.195	-.0164959	.0033664
debt	-.0066685	.0014732	-4.53	0.000	-.0095559	-.0037812
deficit	6.70e-08	2.28e-08	2.94	0.003	2.23e-08	1.12e-07
party_type						
National	.3009168	.305421	0.99	0.325	-.2976973	.8995308
Provincial	-1.674335	2.145239	-0.78	0.435	-5.878925	2.530256
win_margin	-.0005508	.0031241	-0.18	0.860	-.0066738	.0055723
abstentionism	.0024306	.0046073	0.53	0.598	-.0065995	.0114606
pop_share014	.011291	.0128526	0.88	0.380	-.0138996	.0364817
pop_share65plus	.0541563	.0182199	2.97	0.003	.018446	.0898666
_cons	2.16684	1.479074	1.46	0.143	-.7320925	5.065773

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L2.l_rpc_remu_bas L2.L2.l_rpc_remu_bas L3.L2.l_rpc_remu_bas L1.Age
  L2.Age L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
  L3.k_12centers L1.gdp L2.gdp L3.gdp L3.interest_rate L1.debt L2.debt
  L3.debt L1.deficit L2.deficit L3.deficit L1.2bn.party_type
  L2.2bn.party_type L3.2bn.party_type L1.3.party_type L2.3.party_type
  L3.3.party_type L1.win_margin L2.win_margin L3.win_margin L1.abstentionism
  L2.abstentionism L3.abstentionism L1.pop_share014 L2.pop_share014
  L3.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus
2, model(level):
  D.L.l_rpc_remu_bas D.L2.l_rpc_remu_bas D.elec_t D.Age D.2.sex D.k_12centers
  D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(36) = 44.0553
 Prob > chi2 = 0.1676

2-step moment functions, 3-step weighting matrix chi2(36) = 58.9780
 Prob > chi2 = 0.0092

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -3.8015 Prob > |z| = 0.0001
 H0: no autocorrelation of order 2: z = 0.0558 Prob > |z| = 0.9555

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .0282207
 Step 2 f(b) = .62390953

Fitting reduced model 2:

Step 1 f(b) = .48996968

Group variable: **mun_id** Number of obs = **1042**
 Time variable: **year** Number of groups = **81**

Moment conditions: linear = **61** Obs per group: min = **10**
 nonlinear = **0** avg = **12.8642**
 total = **61** max = **13**

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_remu_bas	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_remu_bas						
L1.	.7007331	.1011147	6.93	0.000	.5025519	.8989142
L2.	-.0343438	.0774996	-0.44	0.658	-.1862402	.1175527
elec_t	-.0318491	.0136592	-2.33	0.020	-.0586206	-.0050775
Age	.0004614	.002199	0.21	0.834	-.0038485	.0047713
sex						
Male	-.0041665	.0505164	-0.08	0.934	-.1031769	.0948439
k_12centers	-.0004097	.0003367	-1.22	0.224	-.0010697	.0002503
gdp	1.93e-08	3.78e-09	5.11	0.000	1.19e-08	2.68e-08
interest_rate	-.0040635	.0039845	-1.02	0.308	-.0118731	.003746
debt	-.0070628	.0015683	-4.50	0.000	-.0101365	-.0039891
deficit	8.12e-08	1.94e-08	4.18	0.000	4.31e-08	1.19e-07
party_type						
National	.4565384	.2707642	1.69	0.092	-.0741496	.9872265
Provincial	-.3752598	1.397479	-0.27	0.788	-3.114269	2.363749
win_margin	-.0010648	.0024638	-0.43	0.666	-.0058937	.0037641
abstentionism	.0036553	.0046024	0.79	0.427	-.0053653	.0126759
pop_share014	.0061994	.0116068	0.53	0.593	-.0165494	.0289482
pop_share65plus	.0486041	.022564	2.15	0.031	.0043795	.0928287
_cons	2.082548	1.226933	1.70	0.090	-.3221962	4.487292

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.1_rpc_remu_bas L2.L2.1_rpc_remu_bas L3.L2.1_rpc_remu_bas
 L4.L2.1_rpc_remu_bas L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex
 L4.2.sex L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp
 L2.gdp L3.gdp L4.gdp L1.debt L3.debt L4.debt L1.deficit L2.deficit
 L3.deficit L4.deficit L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type
 L4.2bn.party_type L1.3.party_type L2.3.party_type L3.3.party_type
 L4.3.party_type L1.win_margin L2.win_margin L3.win_margin L4.win_margin
 L1.abstentionism L2.abstentionism L3.abstentionism L4.abstentionism
 L1.pop_share014 L2.pop_share014 L3.pop_share014 L4.pop_share014
 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus L4.pop_share65plus

2, model(level):

D.L.1_rpc_remu_bas D.L2.1_rpc_remu_bas D.Age D.2.sex D.k_12centers D.gdp
 D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(46) = **50.5367**
 Prob > chi2 = **0.2990**

2-step moment functions, 3-step weighting matrix chi2(46) = **64.9581**
 Prob > chi2 = **0.0341**

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-4.1342** Prob > |z| = **0.0000**

H0: no autocorrelation of order 2: z = **0.2435** Prob > |z| = **0.8076**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .00717823

Step 2 f(b) = .27105573

Fitting reduced model 2:

Step 1 f(b) = 1.107e-19

Group variable: **mun_id**

Number of obs = 1125

Time variable: **year**

Number of groups = 81

Moment conditions: linear = 25

Obs per group: min = 11

nonlinear = 0

avg = 13.88889

total = 25

max = 14

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_remu_bas	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_remu_bas						
L1.	.7893258	.1715042	4.60	0.000	.4531838	1.125468
elec_t						
--	-.0094033	.0316929	-0.30	0.767	-.0715203	.0527136
L1.	.0224096	.0233559	0.96	0.337	-.0233672	.0681864
Age	.0020922	.0028143	0.74	0.457	-.0034238	.0076082
sex						
Male	-.079351	.0572965	-1.38	0.166	-.1916501	.0329481
k_12centers	-.0008384	.000516	-1.62	0.104	-.0018496	.0001729
gdp	1.61e-08	8.70e-09	1.85	0.064	-9.41e-10	3.32e-08
interest_rate	-.0049644	.0104849	-0.47	0.636	-.0255143	.0155856
debt	-.0062461	.002352	-2.66	0.008	-.0108559	-.0016362
deficit	3.42e-08	3.29e-08	1.04	0.298	-3.03e-08	9.87e-08
party_type						
National	.157105	.1918242	0.82	0.413	-.2188635	.5330735
Provincial	3.632502	2.342765	1.55	0.121	-.9592341	8.224237
win_margin	-.0001326	.0030239	-0.04	0.965	-.0060594	.0057941
abstentionism	.0105434	.0058499	1.80	0.071	-.0009223	.022009
pop_share014	.0201887	.0148489	1.36	0.174	-.0089147	.0492921
pop_share65plus	.0564672	.0315934	1.79	0.074	-.0054546	.118389
_cons	.3583309	1.394056	0.26	0.797	-2.373969	3.090631

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L1.l_rpc_remu_bas L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
 L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
 L1.abstentionism L1.pop_share014 L1.pop_share65plus

2, model(level):

D.L1.l_rpc_remu_bas D.elec_t D.L.elec_t D.Age D.2.sex D.k_12centers D.gdp
 D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(10) = 21.9555
 Prob > chi2 = 0.0153

2-step moment functions, 3-step weighting matrix chi2(10) = 31.4180
 Prob > chi2 = 0.0005

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -3.6233 Prob > |z| = 0.0003

H0: no autocorrelation of order 2: z = -0.6485 Prob > |z| = 0.5166

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .01419511

Step 2 f(b) = .41759259

Fitting reduced model 2:

Step 1 f(b) = .29178912

Group variable: **mun_id**

Number of obs = 1125

Time variable: **year**

Number of groups = 81

Moment conditions: linear = 39

Obs per group: min = 11

nonlinear = 0

avg = 13.88889

total = 39

max = 14

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_remu_bas	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_remu_bas						
L1.	.7160264	.1255696	5.70	0.000	.4699145	.9621382
elec_t						
--.	-.0064268	.0154562	-0.42	0.678	-.0367204	.0238669
L1.	.0284808	.0172021	1.66	0.098	-.0052348	.0621963
Age	-.0002992	.0019227	-0.16	0.876	-.0040677	.0034693
sex						
Male	-.0223929	.0466991	-0.48	0.632	-.1139215	.0691358
k_12centers	-.0010972	.0004043	-2.71	0.007	-.0018897	-.0003047
gdp	1.84e-08	3.82e-09	4.81	0.000	1.09e-08	2.59e-08
interest_rate	-.0023419	.0066947	-0.35	0.726	-.0154632	.0107794
debt	-.0055004	.0011331	-4.85	0.000	-.0077211	-.0032796
deficit	3.13e-08	2.31e-08	1.35	0.176	-1.40e-08	7.65e-08
party_type						
National	.2103542	.2301407	0.91	0.361	-.2407133	.6614217
Provincial	1.319961	1.251132	1.06	0.291	-1.132213	3.772135
win_margin	-.001247	.0038612	-0.32	0.747	-.0088147	.0063207
abstentionism	.0061364	.0032515	1.89	0.059	-.0002364	.0125093
pop_share014	.0199423	.0078219	2.55	0.011	.0046117	.0352729
pop_share65plus	.046762	.0140903	3.32	0.001	.0191455	.0743784
_cons	1.359292	1.193729	1.14	0.255	-.9803738	3.698959

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L1.l_rpc_remu_bas L2.L1.l_rpc_remu_bas L1.Age L2.Age L1.2.sex L2.2.sex
 L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
 L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
 L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
 L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
 L2.pop_share014 L1.pop_share65plus L2.pop_share65plus

2, model(level):

D.L1.l_rpc_remu_bas D.elec_t D.L.elec_t D.Age D.2.sex D.k_12centers D.gdp
 D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix

chi2(24) = 33.8250

Prob > chi2 = 0.0878

2-step moment functions, 3-step weighting matrix

chi2(24) = 38.2277

Prob > chi2 = 0.0329

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-3.4889** Prob > |z| = **0.0005**
H0: no autocorrelation of order 2: z = **-0.5257** Prob > |z| = **0.5991**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.02893812**
Step 2 f(b) = **.61072521**

Fitting reduced model 2:

Step 1 f(b) = **.55831882**

Group variable: **mun_id** Number of obs = **1125**
Time variable: **year** Number of groups = **81**

Moment conditions: linear = **51** Obs per group: min = **11**
nonlinear = **0** avg = **13.88889**
total = **51** max = **14**

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_remu_bas	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_remu_bas						
L1.	.6919933	.1162415	5.95	0.000	.4641642	.9198225
elec_t						
--.	-.0070423	.0227093	-0.31	0.756	-.0515518	.0374671
L1.	.0311072	.0278446	1.12	0.264	-.0234671	.0856816
Age	-.0007042	.0031805	-0.22	0.825	-.0069377	.0055294
sex						
Male	.0085989	.0483393	0.18	0.859	-.0861443	.1033421
k_12centers	-.0007275	.0004236	-1.72	0.086	-.0015577	.0001027
gdp	1.91e-08	3.62e-09	5.28	0.000	1.20e-08	2.62e-08
interest_rate	-.0010821	.0071964	-0.15	0.880	-.0151869	.0130227
debt	-.0053731	.001844	-2.91	0.004	-.0089872	-.001759
deficit	3.95e-08	4.10e-08	0.96	0.335	-4.09e-08	1.20e-07
party_type						
National	.3198557	.2640551	1.21	0.226	-.1976827	.8373941
Provincial	-.2006568	1.491545	-0.13	0.893	-3.124031	2.722717
win_margin	-.0009534	.0039191	-0.24	0.808	-.0086347	.006728
abstentionism	.0030475	.0043228	0.70	0.481	-.0054251	.0115201
pop_share014	.0170275	.0084126	2.02	0.043	.000539	.0335159
pop_share65plus	.0360705	.0258134	1.40	0.162	-.0145229	.0866638
_cons	1.756211	1.082985	1.62	0.105	-.3663998	3.878822

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L.1_rpc_remu_bas L2.L.1_rpc_remu_bas L3.L.1_rpc_remu_bas L1.Age L2.Age
L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
L3.k_12centers L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate
L3.interest_rate L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit
L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L1.3.party_type
L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
L1.abstentionism L2.abstentionism L3.abstentionism L1.pop_share014
L2.pop_share014 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus
L3.pop_share65plus

2, model(level):

D.L.1_rpc_remu_bas D.Age D.2.sex D.k_12centers D.gdp D.interest_rate D.debt
D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(36) = **49.4687**
 Prob > chi2 = **0.0668**

2-step moment functions, 3-step weighting matrix chi2(36) = **57.6445**
 Prob > chi2 = **0.0125**

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-3.6759** Prob > |z| = **0.0002**
 H0: no autocorrelation of order 2: z = **-0.4130** Prob > |z| = **0.6796**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.03147429**

Step 2 f(b) = **.64584674**

Fitting reduced model 2:

Step 1 f(b) = **.58343417**

Group variable: **mun_id** Number of obs = **1125**
 Time variable: **year** Number of groups = **81**

Moment conditions: linear = **61** Obs per group: min = **11**
 nonlinear = **0** avg = **13.88889**
 total = **61** max = **14**

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_remu_bas	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_remu_bas						
L1.	.690769	.1017978	6.79	0.000	.491249	.8902889
elec_t						
--.	-.004586	.0187955	-0.24	0.807	-.0414245	.0322526
L1.	.0355956	.0250639	1.42	0.156	-.0135287	.0847199
Age	-.0007152	.0026447	-0.27	0.787	-.0058987	.0044684
sex						
Male	.0009288	.0441571	0.02	0.983	-.0856176	.0874751
k_12centers	-.000712	.000375	-1.90	0.058	-.0014469	.0000229
gdp	1.93e-08	3.70e-09	5.21	0.000	1.20e-08	2.66e-08
interest_rate	.0020224	.0063376	0.32	0.750	-.0103991	.0144439
debt	-.0051853	.0016911	-3.07	0.002	-.0084998	-.0018708
deficit	3.82e-08	3.53e-08	1.08	0.279	-3.09e-08	1.07e-07
party_type						
National	.3649672	.2591685	1.41	0.159	-.1429937	.872928
Provincial	.229537	1.123946	0.20	0.838	-1.973357	2.432431
win_margin	-.0007301	.0020482	-0.36	0.722	-.0047444	.0032843
abstentionism	.0030199	.0036848	0.82	0.412	-.0042022	.010242
pop_share014	.0156234	.0086632	1.80	0.071	-.0013561	.0326029
pop_share65plus	.0332194	.0251073	1.32	0.186	-.0159899	.0824287
_cons	1.740584	.9765153	1.78	0.075	-.1733509	3.654519

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L1.l_rpc_remu_bas L2.L1.l_rpc_remu_bas L3.L1.l_rpc_remu_bas
 L4.L1.l_rpc_remu_bas L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex
 L4.2.sex L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp
 L2.gdp L3.gdp L4.gdp L4.interest_rate L2.debt L3.debt L4.debt L1.deficit
 L2.deficit L3.deficit L4.deficit L1.2bn.party_type L2.2bn.party_type
 L3.2bn.party_type L4.2bn.party_type L1.3.party_type L2.3.party_type
 L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin L3.win_margin
 L4.win_margin L1.abstentionism L2.abstentionism L3.abstentionism
 L4.abstentionism L1.pop_share014 L2.pop_share014 L3.pop_share014
 L4.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus
 L4.pop_share65plus

2, model(level):

```
1, model(diff):
L1.L2.1_rpc_remu bas L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
L1.debt L1.deficit L1.2bn_party_type L1.3.party_type L1.win_margin
L1.abstentionism L1.pop_share014 L1.pop_share65plus
2, model(level):
D.L.1_rpc_remu bas D.L2.1_rpc_remu bas D.elec_t D.L.elec_t D.Age D.2.sex
D.k_12centers D.gdp D.interest_rate D.debt D.deficit
```

```
3, model(level):
    _cons
```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

```
2-step moment functions, 2-step weighting matrix      chi2(10)      =    12.7334
                                                         Prob > chi2    =    0.2390
```

```
2-step moment functions, 3-step weighting matrix      chi2(10)      =    18.0856
                                                         Prob > chi2    =    0.0535
```

Arellano-Bond test for autocorrelation of the first-differenced residuals

```
H0: no autocorrelation of order 1:      z =    -2.9978      Prob > |z|    =    0.0027
H0: no autocorrelation of order 2:      z =    -1.7061      Prob > |z|    =    0.0880
```

Generalized method of moments estimation

Fitting full model:

```
Step 1          f(b) =    .01952167
Step 2          f(b) =    .42851214
```

Fitting reduced model 2:

```
Step 1          f(b) =    .25528422
```

```
Group variable: mun_id          Number of obs      =    1042
Time variable: year            Number of groups   =     81
```

```
Moment conditions:      linear =    40      Obs per group:   min =    10
                        nonlinear =    0      avg =    12.8642
                        total =    40      max =    13
```

(Std. err. adjusted for 81 clusters in mun_id)

l_rpc_remu_bas	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_remu_bas						
L1.	.7172191	.1465322	4.89	0.000	.4300213	1.004417
L2.	-.0333352	.1060148	-0.31	0.753	-.2411205	.1744501
elec_t						
L1.	-.0204151	.0263579	-0.77	0.439	-.0720757	.0312455
L2.	.0160666	.027247	0.59	0.555	-.0373365	.0694698
Age	.0026188	.0039383	0.66	0.506	-.0051001	.0103377
sex						
Male	-.0644629	.0682642	-0.94	0.345	-.1982582	.0693325
k_12centers	.000088	.0005925	0.15	0.882	-.0010733	.0012494
gdp	1.82e-08	4.15e-09	4.39	0.000	1.01e-08	2.64e-08
interest_rate	-.0041381	.0072675	-0.57	0.569	-.0183822	.010106
debt	-.0075764	.0018298	-4.14	0.000	-.0111627	-.0039901
deficit	7.07e-08	5.00e-08	1.42	0.157	-2.72e-08	1.69e-07
party_type						
National	.0947432	.2963455	0.32	0.749	-.4860833	.6755697
Provincial	-3.558332	3.019669	-1.18	0.239	-9.476774	2.36011
win_margin	.0011495	.003823	0.30	0.764	-.0063434	.0086425
abstentionism	.0046735	.0061547	0.76	0.448	-.0073896	.0167365
pop_share014	.0076126	.0159522	0.48	0.633	-.0236531	.0388783
pop_share65plus	.0603893	.0197497	3.06	0.002	.0216806	.0990979
_cons	2.014993	1.432794	1.41	0.160	-.7932316	4.823218

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
```

```
    L1.L2.1_rpc_remu_bas L2.L2.1_rpc_remu_bas L1.Age L2.Age L1.2.sex L2.2.sex
    L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
    L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
    L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
    L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
```

```

L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
2, model(level):
  D.L1_rpc_remu_bas D.L2.1_rpc_remu_bas D.elec_t D.L.elec_t D.Age D.2.sex
  D.k_12centers D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(24) = 34.7095
Prob > chi2 = 0.0728

2-step moment functions, 3-step weighting matrix chi2(24) = 57.3210
Prob > chi2 = 0.0002

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -2.9930 Prob > |z| = 0.0028
H0: no autocorrelation of order 2: z = 0.0762 Prob > |z| = 0.9393

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .02486193
Step 2 f(b) = .54121057

Fitting reduced model 2:

Step 1 f(b) = .39175823

Group variable: **mun_id** Number of obs = 1042
Time variable: **year** Number of groups = 81

Moment conditions: linear = 51 Obs per group: min = 10
 nonlinear = 0 avg = 12.8642
 total = 51 max = 13

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_remu_bas	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_remu_bas						
L1.	.6704656	.1391299	4.82	0.000	.3977761	.9431551
L2.	-.0233876	.0775084	-0.30	0.763	-.1753011	.128526
elec_t						
--.	-.0214038	.016985	-1.26	0.208	-.0546938	.0118863
L1.	.0153578	.0203296	0.76	0.450	-.0244874	.0552031
Age	.000288	.0029049	0.10	0.921	-.0054055	.0059816
sex						
Male	.008329	.0556305	0.15	0.881	-.1007049	.1173628
k_12centers	-.0004278	.0004765	-0.90	0.369	-.0013618	.0005062
gdp	1.95e-08	3.57e-09	5.47	0.000	1.25e-08	2.65e-08
interest_rate	-.0039064	.0064159	-0.61	0.543	-.0164813	.0086686
debt	-.0065	.0014746	-4.41	0.000	-.0093901	-.0036099
deficit	5.56e-08	3.18e-08	1.75	0.081	-6.82e-09	1.18e-07
party_type						
National	.2729541	.2756889	0.99	0.322	-.2673863	.8132945
Provincial	-1.75672	2.205326	-0.80	0.426	-6.079079	2.56564
win_margin	-.0002274	.0031736	-0.07	0.943	-.0064476	.0059928
abstentionism	.0022665	.004826	0.47	0.639	-.0071924	.0117253
pop_share014	.0128234	.0133009	0.96	0.335	-.0132459	.0388928
pop_share65plus	.0530596	.0183646	2.89	0.004	.0170657	.0890535
_cons	2.275224	1.536975	1.48	0.139	-.7371914	5.287639

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L2.1_rpc_remu_bas L2.L2.1_rpc_remu_bas L3.L2.1_rpc_remu_bas L1.Age

```

```

L2.Age L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
L3.k_12centers L1.gdp L2.gdp L3.gdp L3.interest_rate L1.debt L2.debt
L3.debt L1.deficit L2.deficit L3.deficit L1.2bn.party_type
L2.2bn.party_type L3.2bn.party_type L1.3.party_type L2.3.party_type
L3.3.party_type L1.win_margin L2.win_margin L3.win_margin L1.abstentionism
L2.abstentionism L3.abstentionism L1.pop_share014 L2.pop_share014
L3.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus
2, model(level):
D.L1_rpc_remu_bas D.L2.1_rpc_remu_bas D.elec_t D.Age D.2.sex D.k_12centers
D.gdp D.interest_rate D.debt D.deficit
3, model(level):
_cons

```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(35)      =    43.8381
                                                        Prob > chi2   =    0.1453

```

```

2-step moment functions, 3-step weighting matrix      chi2(35)      =    59.6224
                                                        Prob > chi2   =    0.0059

```

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-3.4499** Prob > |z| = **0.0006**

H0: no autocorrelation of order 2: z = **-0.0212** Prob > |z| = **0.9831**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.02785553**

Step 2 f(b) = **.6256488**

Fitting reduced model 2:

Step 1 f(b) = **.49339679**

Group variable: **mun_id**

Number of obs = **1042**

Time variable: **year**

Number of groups = **81**

```

Moment conditions:      linear =    61      Obs per group:  min =    10
                      nonlinear =    0                      avg =   12.8642
                      total =    61                      max =    13

```

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_remu_bas	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_remu_bas						
L1.	.6878083	.10757	6.39	0.000	.4769749	.8986417
L2.	-.0353293	.0811076	-0.44	0.663	-.1942973	.1236387
elec_t						
--.	-.0246399	.0180274	-1.37	0.172	-.059973	.0106932
L1.	.0155312	.0206815	0.75	0.453	-.0250037	.0560661
Age	.0002138	.0023425	0.09	0.927	-.0043775	.004805
sex						
Male	.0006611	.0545477	0.01	0.990	-.1062505	.1075727
k_12centers	-.000502	.0003737	-1.34	0.179	-.0012345	.0002304
gdp	2.05e-08	3.65e-09	5.63	0.000	1.34e-08	2.77e-08
interest_rate	-.0015291	.0053982	-0.28	0.777	-.0121095	.0090513
debt	-.0068175	.0015959	-4.27	0.000	-.0099454	-.0036897
deficit	6.99e-08	2.98e-08	2.34	0.019	1.15e-08	1.28e-07
party_type						
National	.438406	.2664827	1.65	0.100	-.0838906	.9607025
Provincial	-.3872837	1.437482	-0.27	0.788	-3.204696	2.430129
win_margin	-.0009194	.0024584	-0.37	0.708	-.0057378	.0038989
abstentionism	.0036249	.0047147	0.77	0.442	-.0056157	.0128656
pop_share014	.0075993	.0128018	0.59	0.553	-.0174917	.0326903

pop_share65plus	.045313	.0228335	1.98	0.047	.0005602	.0900658
_cons	2.159977	1.353419	1.60	0.111	-.4926761	4.812629

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L2.1_rpc_remu_bas L2.L2.1_rpc_remu_bas L3.L2.1_rpc_remu_bas
  L4.L2.1_rpc_remu_bas L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex
  L4.2.sex L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp
  L2.gdp L3.gdp L4.gdp L1.debt L3.debt L4.debt L1.deficit L2.deficit
  L3.deficit L4.deficit L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type
  L4.2bn.party_type L1.3.party_type L2.3.party_type L3.3.party_type
  L4.3.party_type L1.win_margin L2.win_margin L3.win_margin L4.win_margin
  L1.abstentionism L2.abstentionism L3.abstentionism L4.abstentionism
  L1.pop_share014 L2.pop_share014 L3.pop_share014 L4.pop_share014
  L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus L4.pop_share65plus
2, model(level):
  D.L.1_rpc_remu_bas D.L2.1_rpc_remu_bas D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix	chi2(45)	=	50.6776
	Prob > chi2	=	0.2596

2-step moment functions, 3-step weighting matrix	chi2(45)	=	65.8353
	Prob > chi2	=	0.0230

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1:	z =	-3.8811	Prob > z	=	0.0001
H0: no autocorrelation of order 2:	z =	0.2408	Prob > z	=	0.8097

Generalized method of moments estimation

Fitting full model:

Step 1	f(b) =	.0204955
Step 2	f(b) =	.29977304

Fitting reduced model 2:

Step 1	f(b) =	1.193e-21
--------	--------	-----------

Group variable: mun_id	Number of obs	=	1125
Time variable: year	Number of groups	=	81

Moment conditions:	linear =	24	Obs per group:	min =	11
	nonlinear =	0		avg =	13.88889
	total =	24		max =	14

(Std. err. adjusted for 81 clusters in mun_id)

l_rpc_remu_ev	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_remu_ev						
L1.	.4974453	.1464884	3.40	0.001	.2103334	.7845572
elec_t	-.047906	.0277699	-1.73	0.085	-.1023339	.006522
Age	.0060336	.004729	1.28	0.202	-.003235	.0153022
sex						
Male	-.1652642	.1194345	-1.38	0.166	-.3993515	.0688231
k_12centers	.0004019	.0007618	0.53	0.598	-.0010912	.001895
gdp	1.09e-08	4.97e-09	2.20	0.028	1.19e-09	2.07e-08
interest_rate	-.008929	.0107554	-0.83	0.406	-.0300093	.0121512
debt	-.0088503	.0027944	-3.17	0.002	-.0143272	-.0033734
deficit	1.10e-07	5.10e-08	2.15	0.031	9.77e-09	2.10e-07
party_type						
National	.1080563	.2677623	0.40	0.687	-.4167482	.6328609
Provincial	2.754117	3.776856	0.73	0.466	-4.648384	10.15662

win_margin	-.0030292	.0051263	-0.59	0.555	-.0130766	.0070182
abstentionism	.0145546	.0093042	1.56	0.118	-.0036813	.0327904
pop_share014	.0124675	.0120157	1.04	0.299	-.0110828	.0360178
pop_share65plus	.1472919	.0400234	3.68	0.000	.0688474	.2257364
_cons	1.441312	1.014178	1.42	0.155	-.5464411	3.429065

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L1_rpc_remu_ev L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
  L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
  L1.abstentionism L1.pop_share014 L1.pop_share65plus
2, model(level):
  D.L1_rpc_remu_ev D.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(10) = 24.2816
 Prob > chi2 = 0.0069

2-step moment functions, 3-step weighting matrix chi2(10) = 25.9315
 Prob > chi2 = 0.0038

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -3.8472 Prob > |z| = 0.0001

H0: no autocorrelation of order 2: z = 0.6668 Prob > |z| = 0.5049

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .03551762

Step 2 f(b) = .52102365

Fitting reduced model 2:

Step 1 f(b) = .35425105

Group variable: mun_id Number of obs = 1125

Time variable: year Number of groups = 81

Moment conditions: linear = 38 Obs per group: min = 11
 nonlinear = 0 avg = 13.88889
 total = 38 max = 14

(Std. err. adjusted for 81 clusters in mun_id)

	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_remu_ev						
l_rpc_remu_ev						
L1.	.5410359	.1367871	3.96	0.000	.2729381	.8091337
elec_t	-.0208688	.0282823	-0.74	0.461	-.076301	.0345634
Age	-.0000156	.0052102	-0.00	0.998	-.0102274	.0101962
sex						
Male	-.0327538	.0920188	-0.36	0.722	-.2131073	.1475997
k_12centers	-.0004941	.0006588	-0.75	0.453	-.0017853	.0007971
gdp	1.79e-08	4.90e-09	3.65	0.000	8.30e-09	2.75e-08
interest_rate	-.0187044	.0085308	-2.19	0.028	-.0354244	-.0019844
debt	-.0067658	.0020043	-3.38	0.001	-.0106943	-.0028374
deficit	4.83e-08	3.83e-08	1.26	0.208	-2.68e-08	1.23e-07
party_type						
National	.1587411	.2898582	0.55	0.584	-.4093705	.7268528
Provincial	2.50127	3.179869	0.79	0.432	-3.731159	8.733699
win_margin	-.0006792	.0043352	-0.16	0.876	-.0091759	.0078176
abstentionism	.0057722	.0086124	0.67	0.503	-.0111078	.0226522

pop_share014	.0178518	.0121074	1.47	0.140	-.0058783	.0415819
pop_share65plus	.0703202	.0411792	1.71	0.088	-.0103895	.1510299
_cons	2.026749	.9024447	2.25	0.025	.2579899	3.795508

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L1_rpc_remu_ev L2.L1_rpc_remu_ev L1.Age L2.Age L1.2.sex L2.2.sex
  L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
  L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
  L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
  L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
  L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
2, model(level):
  D.L1_rpc_remu_ev D.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(24) = 42.2029
 Prob > chi2 = 0.0122

2-step moment functions, 3-step weighting matrix chi2(24) = 47.3059
 Prob > chi2 = 0.0031

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -4.2913 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = 0.9126 Prob > |z| = 0.3614

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .05629159

Step 2 f(b) = .61522163

Fitting reduced model 2:

Step 1 f(b) = .54428763

Group variable: **mun_id** Number of obs = 1125
 Time variable: **year** Number of groups = 81

Moment conditions: linear = 51 Obs per group: min = 11
 nonlinear = 0 avg = 13.88889
 total = 51 max = 14

(Std. err. adjusted for 81 clusters in **mun_id**)

	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_remu_ev						
l_rpc_remu_ev						
L1.	.6388525	.0862165	7.41	0.000	.4698713	.8078337
elec_t	-.0117122	.0260472	-0.45	0.653	-.0627637	.0393393
Age	-.0035301	.0045714	-0.77	0.440	-.0124898	.0054296
sex						
Male	.043627	.0556503	0.78	0.433	-.0654455	.1526996
k_12centers	-.0003874	.0005983	-0.65	0.517	-.0015601	.0007853
gdp	1.88e-08	4.59e-09	4.08	0.000	9.76e-09	2.78e-08
interest_rate	-.0193649	.0071991	-2.69	0.007	-.0334749	-.0052549
debt	-.0064885	.0021704	-2.99	0.003	-.0107424	-.0022347
deficit	4.27e-08	3.69e-08	1.16	0.247	-2.96e-08	1.15e-07
party_type						
National	.3848668	.3836227	1.00	0.316	-.36702	1.136754
Provincial	.3811588	2.308652	0.17	0.869	-4.143717	4.906034
win_margin	.001041	.0038855	0.27	0.789	-.0065745	.0086566
abstentionism	-.0022142	.0075077	-0.29	0.768	-.016929	.0125006

pop_share014	.0208051	.0113773	1.83	0.067	-.001494	.0431043
pop_share65plus	.0280949	.0369698	0.76	0.447	-.0443646	.1005544
_cons	1.901136	.7247891	2.62	0.009	.4805751	3.321696

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L1_rpc_remu_ev L2.L1_rpc_remu_ev L3.L1_rpc_remu_ev L1.Age L2.Age
 L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
 L3.k_12centers L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate
 L3.interest_rate L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit
 L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L1.3.party_type
 L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
 L1.abstentionism L2.abstentionism L3.abstentionism L1.pop_share014
 L2.pop_share014 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus
 L3.pop_share65plus

2, model(level):

D.L1_rpc_remu_ev D.Age D.2.sex D.k_12centers D.gdp D.interest_rate D.debt
 D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(37) = 49.8330
 Prob > chi2 = 0.0773

2-step moment functions, 3-step weighting matrix chi2(37) = 53.9425
 Prob > chi2 = 0.0355

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -4.2594 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = 1.3380 Prob > |z| = 0.1809

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .06175534

Step 2 f(b) = .69417538

Fitting reduced model 2:

Step 1 f(b) = .65311449

Group variable: mun_id

Number of obs = 1125

Time variable: year

Number of groups = 81

Moment conditions: linear = 61 Obs per group: min = 11
 nonlinear = 0 avg = 13.88889
 total = 61 max = 14

(Std. err. adjusted for 81 clusters in mun_id)

l_rpc_remu_ev	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_remu_ev L1.	.6284672	.0824433	7.62	0.000	.4668813	.7900532
elec_t	-.0073821	.0224613	-0.33	0.742	-.0514055	.0366413
Age	-.001625	.0036094	-0.45	0.653	-.0086993	.0054493
sex						
Male	.0351318	.0522878	0.67	0.502	-.0673504	.137614
k_12centers	-.0005386	.0005152	-1.05	0.296	-.0015485	.0004712
gdp	1.88e-08	4.13e-09	4.55	0.000	1.07e-08	2.69e-08
interest_rate	-.0182266	.0066613	-2.74	0.006	-.0312825	-.0051706
debt	-.0060833	.0022442	-2.71	0.007	-.0104819	-.0016848
deficit	5.21e-08	2.86e-08	1.82	0.068	-3.93e-09	1.08e-07
party_type						
National	.2742963	.3629883	0.76	0.450	-.4371476	.9857403
Provincial	.8652606	1.931552	0.45	0.654	-2.920512	4.651034

win_margin	.0007952	.0033025	0.24	0.810	-.0056775	.007268
abstentionism	-.0015298	.0062225	-0.25	0.806	-.0137258	.0106661
pop_share014	.0180356	.010535	1.71	0.087	-.0026126	.0386839
pop_share65plus	.0189325	.0338115	0.56	0.576	-.0473368	.0852018
_cons	2.082242	.6758696	3.08	0.002	.757562	3.406922

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L1_rpc_remu_ev L2.L1_rpc_remu_ev L3.L1_rpc_remu_ev L4.L1_rpc_remu_ev
  L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex L4.2.sex
  L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp L2.gdp
  L3.gdp L4.gdp L4.interest_rate L2.debt L3.debt L4.debt L1.deficit
  L2.deficit L3.deficit L4.deficit L1.2bn.party_type L2.2bn.party_type
  L3.2bn.party_type L4.2bn.party_type L1.3.party_type L2.3.party_type
  L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin L3.win_margin
  L4.win_margin L1.abstentionism L2.abstentionism L3.abstentionism
  L4.abstentionism L1.pop_share014 L2.pop_share014 L3.pop_share014
  L4.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus
  L4.pop_share65plus
2, model(level):
  D.L1_rpc_remu_ev D.Age D.2.sex D.k_12centers D.gdp D.interest_rate D.debt
  D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(47) = 56.2282
 Prob > chi2 = 0.1676

2-step moment functions, 3-step weighting matrix chi2(47) = 60.7716
 Prob > chi2 = 0.0855

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -4.2952 Prob > |z| = 0.0000
 H0: no autocorrelation of order 2: z = 1.2305 Prob > |z| = 0.2185

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .01320127
 Step 2 f(b) = .20507791

Fitting reduced model 2:

Step 1 f(b) = 1.143e-18

Group variable: **mun_id** Number of obs = 1042
 Time variable: **year** Number of groups = 81

Moment conditions: linear = 25 Obs per group: min = 10
 nonlinear = 0 avg = 12.8642
 total = 25 max = 13

(Std. err. adjusted for 81 clusters in **mun_id**)

	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_remu_ev						
l_rpc_remu_ev						
L1.	.7922679	.0813534	9.74	0.000	.6328182	.9517177
L2.	.0148902	.0794219	0.19	0.851	-.1407738	.1705543
elec_t	-.0445875	.0274786	-1.62	0.105	-.0984445	.0092696
Age	.001309	.0076642	0.17	0.864	-.0137125	.0163304
sex						
Male	-.1017699	.1042233	-0.98	0.329	-.3060438	.102504
k_12centers	.0008012	.0010567	0.76	0.448	-.0012699	.0028722
gdp	2.89e-08	8.48e-09	3.40	0.001	1.22e-08	4.55e-08
interest_rate	-.0164977	.010049	-1.64	0.101	-.0361933	.0031979

debt	-.0157553	.0036151	-4.36	0.000	-.0228408	-.0086698
deficit	1.00e-07	4.54e-08	2.21	0.027	1.12e-08	1.89e-07
party_type						
National	.5764298	.694052	0.83	0.406	-.783887	1.936747
Provincial	-2.499794	4.589709	-0.54	0.586	-11.49546	6.49587
win_margin	-.001532	.0034277	-0.45	0.655	-.0082503	.0051863
abstentionism	.0051387	.0071973	0.71	0.475	-.0089678	.0192453
pop_share014	.013519	.0138805	0.97	0.330	-.0136864	.0407243
pop_share65plus	.0823368	.0359779	2.29	0.022	.0118214	.1528522
_cons	-.0871614	.8688083	-0.10	0.920	-1.789994	1.615672

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.1_rpc_remu_ev L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
L1.abstentionism L1.pop_share014 L1.pop_share65plus

2, model(level):

D.L.1_rpc_remu_ev D.L2.1_rpc_remu_ev D.elec_t D.Age D.2.sex D.k_12centers
D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(10) = 16.6113
Prob > chi2 = 0.0834

2-step moment functions, 3-step weighting matrix chi2(10) = 23.1614
Prob > chi2 = 0.0102

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -5.7269 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = 1.1038 Prob > |z| = 0.2697

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .02855575

Step 2 f(b) = .44747643

Fitting reduced model 2:

Step 1 f(b) = .21137062

Group variable: **mun_id** Number of obs = 1042

Time variable: **year** Number of groups = 81

Moment conditions: linear = 39 Obs per group: min = 10
 nonlinear = 0 avg = 12.8642
 total = 39 max = 13

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_remu_ev	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_remu_ev						
L1.	.7403292	.0841262	8.80	0.000	.5754449	.9052135
L2.	.0645255	.0920795	0.70	0.483	-.1159471	.2449981
elec_t	-.0458321	.0344151	-1.33	0.183	-.1132845	.0216202
Age	.0006547	.0056847	0.12	0.908	-.010487	.0117964
sex						
Male	-.0314276	.0809451	-0.39	0.698	-.1900771	.1272219
k_12centers	.0003175	.0009309	0.34	0.733	-.001507	.002142
gdp	2.74e-08	6.84e-09	4.00	0.000	1.40e-08	4.08e-08
interest_rate	-.0213214	.0068673	-3.10	0.002	-.034781	-.0078618
debt	-.0144104	.0037274	-3.87	0.000	-.021716	-.0071048
deficit	1.12e-07	5.96e-08	1.88	0.061	-5.00e-09	2.29e-07

party_type						
National	.3896394	.5354944	0.73	0.467	-.6599104	1.439189
Provincial	-3.261582	4.44021	-0.73	0.463	-11.96423	5.44107
win_margin	-.0022679	.0043163	-0.53	0.599	-.0107277	.0061918
abstentionism	.0033459	.0077306	0.43	0.665	-.0118058	.0184976
pop_share014	.0079815	.0172807	0.46	0.644	-.0258882	.0418511
pop_share65plus	.0413117	.0430584	0.96	0.337	-.0430813	.1257046
_cons	.6963241	1.096829	0.63	0.526	-1.453422	2.84607

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L2.1_rpc_remu_ev L2.L2.1_rpc_remu_ev L1.Age L2.Age L1.2.sex L2.2.sex
  L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
  L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
  L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
  L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
  L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
2, model(level):
  D.L.1_rpc_remu_ev D.L2.1_rpc_remu_ev D.elec_t D.Age D.2.sex D.k_12centers
  D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(24) = 36.2456
 Prob > chi2 = 0.0519

2-step moment functions, 3-step weighting matrix chi2(24) = 44.9220
 Prob > chi2 = 0.0060

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -5.2397 Prob > |z| = 0.0000
 H0: no autocorrelation of order 2: z = 0.1930 Prob > |z| = 0.8470

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .03870574
 Step 2 f(b) = .51537206

Fitting reduced model 2:

Step 1 f(b) = .44435149

Group variable: **mun_id** Number of obs = 1042
 Time variable: **year** Number of groups = 81

Moment conditions: linear = 51 Obs per group: min = 10
 nonlinear = 0 avg = 12.8642
 total = 51 max = 13

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_remu_ev	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_remu_ev						
L1.	.7303443	.0794101	9.20	0.000	.5747034	.8859853
L2.	.008668	.0835168	0.10	0.917	-.1550218	.1723578
elec_t	-.0355736	.0329067	-1.08	0.280	-.1000695	.0289224
Age	-.0020402	.0042562	-0.48	0.632	-.0103823	.0063019
sex						
Male	.0085094	.0614728	0.14	0.890	-.111975	.1289938
k_12centers	-.0001421	.0007876	-0.18	0.857	-.0016857	.0014015
gdp	2.57e-08	5.73e-09	4.49	0.000	1.45e-08	3.70e-08
interest_rate	-.0201659	.0068505	-2.94	0.003	-.0335927	-.0067391
debt	-.0127804	.0032353	-3.95	0.000	-.0191216	-.0064393

deficit	8.30e-08	5.47e-08	1.52	0.129	-2.42e-08	1.90e-07
party_type						
National	.3974126	.3882167	1.02	0.306	-.3634782	1.158303
Provincial	-1.084717	3.403503	-0.32	0.750	-7.75546	5.586026
win_margin	-.0022616	.0042277	-0.53	0.593	-.0105478	.0060246
abstentionism	.0013338	.0068829	0.19	0.846	-.0121564	.014824
pop_share014	.0118655	.0183076	0.65	0.517	-.0240167	.0477478
pop_share65plus	.0471382	.0418807	1.13	0.260	-.0349465	.1292229
_cons	1.200864	.8780913	1.37	0.171	-.520163	2.921892

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.1_rpc_remu_ev L2.L2.1_rpc_remu_ev L3.L2.1_rpc_remu_ev L1.Age L2.Age
 L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
 L3.k_12centers L1.gdp L2.gdp L3.gdp L3.interest_rate L1.debt L2.debt
 L3.debt L1.deficit L2.deficit L3.deficit L1.2bn.party_type
 L2.2bn.party_type L3.2bn.party_type L1.3.party_type L2.3.party_type
 L3.3.party_type L1.win_margin L2.win_margin L3.win_margin L1.abstentionism
 L2.abstentionism L3.abstentionism L1.pop_share014 L2.pop_share014
 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus

2, model(level):

D.L.1_rpc_remu_ev D.L2.1_rpc_remu_ev D.elec_t D.Age D.2.sex D.k_12centers
 D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(36) = 41.7451
 Prob > chi2 = 0.2352

2-step moment functions, 3-step weighting matrix chi2(36) = 47.3645
 Prob > chi2 = 0.0974

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -5.4979 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = 0.7911 Prob > |z| = 0.4289

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .045372

Step 2 f(b) = .65238773

Fitting reduced model 2:

Step 1 f(b) = .56294767

Group variable: mun_id

Number of obs = 1042

Time variable: year

Number of groups = 81

Moment conditions: linear = 61 Obs per group: min = 10
 nonlinear = 0 avg = 12.8642
 total = 61 max = 13

(Std. err. adjusted for 81 clusters in mun_id)

l_rpc_remu_ev	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_remu_ev						
L1.	.6777307	.0696122	9.74	0.000	.5412934	.8141681
L2.	.0161278	.0677788	0.24	0.812	-.1167161	.1489718
elec_t	-.0469579	.026364	-1.78	0.075	-.0986304	.0047146
Age	-.0016148	.0031458	-0.51	0.608	-.0077804	.0045508
sex						
Male	-.0095489	.0533204	-0.18	0.858	-.1140549	.0949572
k_12centers	-.0001623	.0006714	-0.24	0.809	-.0014783	.0011537

gdp	2.85e-08	5.32e-09	5.36	0.000	1.80e-08	3.89e-08
interest_rate	-.0161113	.0065985	-2.44	0.015	-.0290442	-.0031784
debt	-.0138605	.0026553	-5.22	0.000	-.0190648	-.0086561
deficit	1.09e-07	4.01e-08	2.71	0.007	3.02e-08	1.87e-07
party_type						
National	.3678669	.3094793	1.19	0.235	-.2387015	.9744352
Provincial	.4654719	1.821413	0.26	0.798	-3.104431	4.035375
win_margin	-.0027449	.0034853	-0.79	0.431	-.0095759	.0040861
abstentionism	.0035875	.005139	0.70	0.485	-.0064847	.0136598
pop_share014	.0094518	.0130607	0.72	0.469	-.0161467	.0350504
pop_share65plus	.0583035	.0271773	2.15	0.032	.0050371	.11157
_cons	1.364704	.7389568	1.85	0.065	-.0836252	2.813032

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L2.l_rpc_remu_ev L2.L2.l_rpc_remu_ev L3.L2.l_rpc_remu_ev
  L4.L2.l_rpc_remu_ev L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex
  L4.2.sex L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp
  L2.gdp L3.gdp L4.gdp L1.debt L3.debt L4.debt L1.deficit L2.deficit
  L3.deficit L4.deficit L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type
  L4.2bn.party_type L1.3.party_type L2.3.party_type L3.3.party_type
  L4.3.party_type L1.win_margin L2.win_margin L3.win_margin L4.win_margin
  L1.abstentionism L2.abstentionism L3.abstentionism L4.abstentionism
  L1.pop_share014 L2.pop_share014 L3.pop_share014 L4.pop_share014
  L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus L4.pop_share65plus
2, model(level):
  D.L.l_rpc_remu_ev D.L2.l_rpc_remu_ev D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  cons

```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

[illegible][illegible]

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1:	z =	-5.6387	Prob > z =	0.0000
H0: no autocorrelation of order 2:	z =	0.4181	Prob > z =	0.6759

Generalized method of moments estimation

Fitting full model:

```

Step 1      f(b) = .01991359
Step 2      f(b) = .29782146

```

Fitting reduced model 2:

Step 1 $f(b) = 1.124e-21$

Group variable: **mun_id**

Number of obs = 1125

Time variable: **year** Number of groups

Number of groups = 81

```

Moment conditions:      linear =      25
                      nonlinear =      0
                      total =      25

```

```
Obs per group:    min =      11
                  avg =  13.88889
                  max =      14
```

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_remu_ev	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_remu_ev						
L1.	.4822501	.1462118	3.30	0.001	.1956803	.7688199
elec_t						
--.	-.0911357	.0526402	-1.73	0.083	-.1943085	.0120371
L1.	-.0488732	.0469951	-1.04	0.298	-.1409819	.0432354
Age	.0065728	.0045441	1.45	0.148	-.0023335	.0154791
sex						
Male	-.1749869	.1160406	-1.51	0.132	-.4024222	.0524484
k_12centers	.0004389	.0007492	0.59	0.558	-.0010294	.0019073
gdp	1.27e-08	5.74e-09	2.22	0.026	1.49e-09	2.40e-08
interest_rate	-.0198003	.0157632	-1.26	0.209	-.0506956	.0110951
debt	-.0107727	.003712	-2.90	0.004	-.0180481	-.0034973
deficit	1.56e-07	7.68e-08	2.04	0.042	5.79e-09	3.07e-07
party_type						
National	.0845319	.263877	0.32	0.749	-.4326575	.6017214
Provincial	2.978159	3.835214	0.78	0.437	-4.538723	10.49504
win_margin	-.0034815	.005293	-0.66	0.511	-.0138556	.0068925
abstentionism	.014998	.0087017	1.72	0.085	-.0020571	.0320531
pop_share014	.0089809	.0142974	0.63	0.530	-.0190416	.0370033
pop_share65plus	.1539419	.0391509	3.93	0.000	.0772076	.2306762
_cons	1.764932	1.111577	1.59	0.112	-.4137184	3.943583

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L1_rpc_remu_ev L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
  L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
  L1.abstentionism L1.pop_share014 L1.pop_share65plus
2, model(level):
  D.L1_rpc_remu_ev D.elec_t D.L.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(10)    =    24.1235
                                                        Prob > chi2 =    0.0073

```

```

2-step moment functions, 3-step weighting matrix      chi2(10)    =    26.0355
                                                        Prob > chi2 =    0.0037

```

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-3.8247** Prob > |z| = **0.0001**H0: no autocorrelation of order 2: z = **0.4040** Prob > |z| = **0.6862**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.03428289**Step 2 f(b) = **.52205849**

Fitting reduced model 2:

Step 1 f(b) = **.34503531**Group variable: **mun_id**Number of obs = **1125**Time variable: **year**Number of groups = **81**

```

Moment conditions:      linear =    39
                        nonlinear =    0
                        total =    39

```

```

Obs per group:      min =    11
                    avg =  13.88889
                    max =    14

```

(Std. err. adjusted for 81 clusters in `mun_id`)

<code>l_rpc_remu_ev</code>	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
<code>l_rpc_remu_ev</code> <code>L1.</code>	.5637816	.122699	4.59	0.000	.3232961	.8042672
<code>elec_t</code> <code>--.</code>	-.0290645	.0408644	-0.71	0.477	-.1091573	.0510282
<code>L1.</code>	-.0125917	.0390776	-0.32	0.747	-.0891824	.063999
<code>Age</code>	-.0000843	.0051622	-0.02	0.987	-.010202	.0100334
<code>sex</code> <code>Male</code>	-.0400677	.0886697	-0.45	0.651	-.2138571	.1337217
<code>k_12centers</code>	-.0003705	.0006463	-0.57	0.566	-.0016372	.0008962
<code>gdp</code>	1.77e-08	5.11e-09	3.47	0.001	7.74e-09	2.78e-08
<code>interest_rate</code>	-.0216453	.0117701	-1.84	0.066	-.0447143	.0014237
<code>debt</code>	-.0070105	.0022445	-3.12	0.002	-.0114096	-.0026113
<code>deficit</code>	5.55e-08	5.00e-08	1.11	0.268	-4.26e-08	1.54e-07
<code>party_type</code> <code>National</code>	.185732	.2729764	0.68	0.496	-.349292	.7207559
<code>Provincial</code>	2.359492	3.035831	0.78	0.437	-3.590627	8.309611
<code>win_margin</code>	-.0003294	.0041107	-0.08	0.936	-.0083862	.0077274
<code>abstentionism</code>	.0054491	.0077162	0.71	0.480	-.0096744	.0205726
<code>pop_share014</code>	.018419	.0116417	1.58	0.114	-.0043983	.0412363
<code>pop_share65plus</code>	.0672674	.031314	2.15	0.032	.005893	.1286417
<code>_cons</code>	1.916175	.8710019	2.20	0.028	.2090429	3.623307

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L1.l_rpc_remu_ev L2.L1.l_rpc_remu_ev L1.Age L2.Age L1.2.sex L2.2.sex
  L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
  L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
  L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
  L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
  L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
2, model(level):
  D.L1.l_rpc_remu_ev D.elec_t D.L.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(24)      =      42.2867
                                                         Prob > chi2    =      0.0120

```

```

2-step moment functions, 3-step weighting matrix      chi2(24)      =      47.2468
                                                         Prob > chi2    =      0.0031

```

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-4.3796** Prob > |z| = **0.0000**H0: no autocorrelation of order 2: z = **0.9364** Prob > |z| = **0.3491**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.05569954**Step 2 f(b) = **.60526268**

Fitting reduced model 2:

Step 1 f(b) = **.5473318**Group variable: `mun_id`Number of obs = **1125**Time variable: `year`Number of groups = **81**

Fitting reduced model 2:

Step 1 f(b) = .65471877

Group variable: **mun_id**

Number of obs = 1125

Time variable: **year**

Number of groups = 81

Moment conditions:	linear =	61	Obs per group:	min =	11
	nonlinear =	0		avg =	13.88889
	total =	61		max =	14

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_remu_ev	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_remu_ev L1.	.6289667	.0833681	7.54	0.000	.4655683	.7923651
elec_t --.	-.0122972	.0319294	-0.39	0.700	-.0748776	.0502832
L1.	-.0105134	.0376212	-0.28	0.780	-.0842496	.0632229
Age	-.0013914	.0036928	-0.38	0.706	-.0086291	.0058464
sex						
Male	.0273066	.0537859	0.51	0.612	-.0781118	.132725
k_12centers	-.000458	.0005349	-0.86	0.392	-.0015064	.0005904
gdp	1.79e-08	4.17e-09	4.29	0.000	9.70e-09	2.60e-08
interest_rate	-.019483	.0094515	-2.06	0.039	-.0380075	-.0009585
debt	-.0063599	.0027652	-2.30	0.021	-.0117796	-.0009402
deficit	5.80e-08	4.92e-08	1.18	0.238	-3.84e-08	1.54e-07
party_type						
National	.2584057	.3575191	0.72	0.470	-.442319	.9591303
Provincial	.8550864	2.052458	0.42	0.677	-3.167657	4.87783
win_margin	.0009556	.003689	0.26	0.796	-.0062748	.0081859
abstentionism	-.0015641	.0069041	-0.23	0.821	-.015096	.0119677
pop_share014	.0159751	.0113049	1.41	0.158	-.006182	.0381323
pop_share65plus	.0233625	.0400064	0.58	0.559	-.0550486	.1017736
_cons	2.157316	.6892263	3.13	0.002	.8064572	3.508175

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L1.l_rpc_remu_ev L2.L1.l_rpc_remu_ev L3.L1.l_rpc_remu_ev L4.L1.l_rpc_remu_ev
 L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex L4.2.sex
 L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp L2.gdp
 L3.gdp L4.gdp L4.interest_rate L2.debt L3.debt L4.debt L1.deficit
 L2.deficit L3.deficit L4.deficit L1.2bn.party_type L2.2bn.party_type
 L3.2bn.party_type L4.2bn.party_type L1.3.party_type L2.3.party_type
 L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin L3.win_margin
 L4.win_margin L1.abstentionism L2.abstentionism L3.abstentionism
 L4.abstentionism L1.pop_share014 L2.pop_share014 L3.pop_share014
 L4.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus
 L4.pop_share65plus

2, model(level):

D.L1.l_rpc_remu_ev D.Age D.2.sex D.k_12centers D.gdp D.interest_rate D.debt
 D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix	chi2(46)	=	55.8511
	Prob > chi2	=	0.1515

2-step moment functions, 3-step weighting matrix	chi2(46)	=	60.9906
	Prob > chi2	=	0.0685

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-4.3051** Prob > |z| = **0.0000**
H0: no autocorrelation of order 2: z = **1.2446** Prob > |z| = **0.2133**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.01323986**
Step 2 f(b) = **.20588381**

Group variable: **mun_id** Number of obs = **1042**
Time variable: **year** Number of groups = **81**

Moment conditions: linear = **26** Obs per group: min = **10**
nonlinear = **0** avg = **12.8642**
total = **26** max = **13**

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_remu_ev	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_remu_ev						
L1.	.7916543	.0810887	9.76	0.000	.6327234	.9505853
L2.	.0119597	.0796481	0.15	0.881	-.1441477	.168067
elec_t						
--.	-.0514299	.0424958	-1.21	0.226	-.1347202	.0318604
L1.	-.0092515	.038535	-0.24	0.810	-.0847786	.0662757
Age	.0012029	.0075868	0.16	0.874	-.013667	.0160728
sex						
Male	-.0997831	.1025923	-0.97	0.331	-.3008603	.1012942
k_12centers	.0007778	.001041	0.75	0.455	-.0012624	.002818
gdp	2.89e-08	8.84e-09	3.27	0.001	1.16e-08	4.63e-08
interest_rate	-.0183465	.0123674	-1.48	0.138	-.0425861	.0058931
debt	-.0158861	.0040139	-3.96	0.000	-.0237532	-.008019
deficit	1.06e-07	5.98e-08	1.77	0.076	-1.12e-08	2.23e-07
party_type						
National	.5793448	.7007385	0.83	0.408	-.7940775	1.952767
Provincial	-2.370184	4.484583	-0.53	0.597	-11.1598	6.419436
win_margin	-.001457	.0033759	-0.43	0.666	-.0080737	.0051596
abstentionism	.0047629	.0068254	0.70	0.485	-.0086147	.0181406
pop_share014	.0128645	.014579	0.88	0.378	-.0157098	.0414389
pop_share65plus	.081377	.0353236	2.30	0.021	.0121439	.15061
_cons	.0155027	.8388924	0.02	0.985	-1.628696	1.659702

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.l_rpc_remu_ev L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
L1.abstentionism L1.pop_share014 L1.pop_share65plus

2, model(level):

D.L.l_rpc_remu_ev D.L2.l_rpc_remu_ev D.elec_t D.L.elec_t D.Age D.2.sex
D.k_12centers D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(10) = **16.6766**
Prob > chi2 = **0.0818**

2-step moment functions, 3-step weighting matrix chi2(10) = **23.2212**
Prob > chi2 = **0.0100**

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-5.7361** Prob > |z| = **0.0000**
H0: no autocorrelation of order 2: z = **1.1452** Prob > |z| = **0.2521**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.02829561**
Step 2 f(b) = **.45226049**

Fitting reduced model 2:

Step 1 f(b) = **.2084366**

Group variable: **mun_id** Number of obs = **1042**
Time variable: **year** Number of groups = **81**

Moment conditions: linear = **40** Obs per group: min = **10**
nonlinear = **0** avg = **12.8642**
total = **40** max = **13**

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_remu_ev	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_remu_ev						
L1.	.7387009	.0861332	8.58	0.000	.5698829	.9075189
L2.	.0628028	.0898256	0.70	0.484	-.1132522	.2388578
elec_t						
L1.	-.0549312	.0455579	-1.21	0.228	-.144223	.0343606
L2.	-.0141312	.0384399	-0.37	0.713	-.089472	.0612097
Age	.001068	.0058508	0.18	0.855	-.0103993	.0125353
sex						
Male	-.0350732	.0832963	-0.42	0.674	-.1983309	.1281845
k_12centers	.0003643	.0009184	0.40	0.692	-.0014358	.0021644
gdp	2.71e-08	6.73e-09	4.02	0.000	1.39e-08	4.03e-08
interest_rate	-.0237491	.0097164	-2.44	0.015	-.0427929	-.0047054
debt	-.0148146	.0041491	-3.57	0.000	-.0229466	-.0066826
deficit	1.25e-07	7.65e-08	1.64	0.101	-2.46e-08	2.75e-07
party_type						
National	.401316	.5223853	0.77	0.442	-.6225404	1.425172
Provincial	-3.169081	4.362916	-0.73	0.468	-11.72024	5.382077
win_margin	-.0023768	.0044305	-0.54	0.592	-.0110605	.0063069
abstentionism	.0036007	.0074383	0.48	0.628	-.0109782	.0181795
pop_share014	.0062189	.0168742	0.37	0.712	-.0268538	.0392917
pop_share65plus	.0451671	.0445142	1.01	0.310	-.0420792	.1324134
_cons	.7524018	1.069196	0.70	0.482	-1.343184	2.847987

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.1_rpc_remu_ev L2.L2.1_rpc_remu_ev L1.Age L2.Age L1.2.sex L2.2.sex
L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
L2.pop_share014 L1.pop_share65plus L2.pop_share65plus

2, model(level):

D.L.1_rpc_remu_ev D.L2.1_rpc_remu_ev D.elec_t D.L.elec_t D.Age D.2.sex
D.k_12centers D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(24) = 36.6331
 Prob > chi2 = 0.0476

2-step moment functions, 3-step weighting matrix chi2(24) = 44.3818
 Prob > chi2 = 0.0069

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -5.2494 Prob > |z| = 0.0000
 H0: no autocorrelation of order 2: z = 0.1988 Prob > |z| = 0.8424

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .03837436
 Step 2 f(b) = .51388194

Fitting reduced model 2:

Step 1 f(b) = .43307101

Group variable: **mun_id** Number of obs = 1042
 Time variable: **year** Number of groups = 81

Moment conditions: linear = 51 Obs per group: min = 10
 nonlinear = 0 avg = 12.8642
 total = 51 max = 13

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_remu_ev	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_remu_ev						
L1.	.7343419	.0792524	9.27	0.000	.57901	.8896737
L2.	.0040365	.0848935	0.05	0.962	-.1623517	.1704247
elec_t						
L1.	-.0395311	.0429366	-0.92	0.357	-.1236854	.0446232
L2.	-.0079289	.0376918	-0.21	0.833	-.0818035	.0659457
Age	-.001493	.0045233	-0.33	0.741	-.0103586	.0073726
sex						
Male	.0013149	.0633903	0.02	0.983	-.1229279	.1255577
k_12centers	-.0000972	.000852	-0.11	0.909	-.0017672	.0015727
gdp	2.49e-08	5.53e-09	4.50	0.000	1.40e-08	3.57e-08
interest_rate	-.0212629	.0092071	-2.31	0.021	-.0393086	-.0032172
debt	-.0128086	.0037175	-3.45	0.001	-.0200948	-.0055224
deficit	9.10e-08	7.79e-08	1.17	0.243	-6.17e-08	2.44e-07
party_type						
National	.3983586	.3906257	1.02	0.308	-.3672538	1.163971
Provincial	-1.146619	3.445146	-0.33	0.739	-7.898982	5.605744
win_margin	-.0022767	.0044043	-0.52	0.605	-.0109089	.0063555
abstentionism	.0017038	.0070515	0.24	0.809	-.0121169	.0155245
pop_share014	.0092082	.0202413	0.45	0.649	-.030464	.0488804
pop_share65plus	.0478311	.0421259	1.14	0.256	-.0347341	.1303963
_cons	1.260532	.8807306	1.43	0.152	-.4656679	2.986733

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.1_rpc_remu_ev L2.L2.1_rpc_remu_ev L3.L2.1_rpc_remu_ev L1.Age L2.Age
 L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
 L3.k_12centers L1.gdp L2.gdp L3.gdp L3.interest_rate L1.debt L2.debt
 L3.debt L1.deficit L2.deficit L3.deficit L1.2bn.party_type
 L2.2bn.party_type L3.2bn.party_type L1.3.party_type L2.3.party_type
 L3.3.party_type L1.win_margin L2.win_margin L3.win_margin L1.abstentionism
 L2.abstentionism L3.abstentionism L1.pop_share014 L2.pop_share014
 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus

2, model(level):

D.L.1_rpc_remu_ev D.L2.1_rpc_remu_ev D.elec_t D.Age D.2.sex D.k_12centers
 D.gdp D.interest_rate D.debt D.deficit

```
3, model(level):
    _cons
```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

```
2-step moment functions, 2-step weighting matrix      chi2(35)      =    41.6244
                                                         Prob > chi2    =    0.2046
```

```
2-step moment functions, 3-step weighting matrix      chi2(35)      =    47.4625
                                                         Prob > chi2    =    0.0778
```

Arellano-Bond test for autocorrelation of the first-differenced residuals

```
H0: no autocorrelation of order 1:      z =    -5.6100    Prob > |z|    =    0.0000
H0: no autocorrelation of order 2:      z =     0.8237    Prob > |z|    =    0.4101
```

Generalized method of moments estimation

Fitting full model:

```
Step 1      f(b) =    .04508511
Step 2      f(b) =    .6545651
```

Fitting reduced model 2:

```
Step 1      f(b) =    .56426124
```

```
Group variable: mun_id      Number of obs      =    1042
Time variable: year      Number of groups    =     81

Moment conditions:      linear =     61      Obs per group:   min =     10
                        nonlinear =     0      avg =    12.8642
                        total =     61      max =     13
```

(Std. err. adjusted for 81 clusters in mun_id)

l_rpc_remu_ev	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_remu_ev						
L1.	.6806397	.0695485	9.79	0.000	.5443272	.8169523
L2.	.0161683	.0680489	0.24	0.812	-.117205	.1495416
elec_t						
L1.	-.0585357	.0331417	-1.77	0.077	-.1234922	.0064208
L2.	-.0224969	.0342717	-0.66	0.512	-.0896681	.0446743
Age	-.001029	.0032826	-0.31	0.754	-.0074628	.0054048
sex						
Male	-.0105277	.052415	-0.20	0.841	-.1132592	.0922038
k_12centers	-.0000516	.0007467	-0.07	0.945	-.0015152	.0014119
gdp	2.73e-08	5.22e-09	5.24	0.000	1.71e-08	3.76e-08
interest_rate	-.0198369	.0085556	-2.32	0.020	-.0366055	-.0030683
debt	-.0143121	.0028866	-4.96	0.000	-.0199698	-.0086544
deficit	1.26e-07	5.30e-08	2.38	0.017	2.24e-08	2.30e-07
party_type						
National	.3872912	.3096852	1.25	0.211	-.2196807	.9942631
Provincial	.4602721	1.825936	0.25	0.801	-3.118498	4.039042
win_margin	-.0028373	.0035551	-0.80	0.425	-.0098052	.0041307
abstentionism	.003289	.0050146	0.66	0.512	-.0065394	.0131174
pop_share014	.0071225	.0139998	0.51	0.611	-.0203165	.0345615
pop_share65plus	.0638835	.0285822	2.24	0.025	.0078634	.1199035
_cons	1.429192	.7346017	1.95	0.052	-.0106011	2.868984

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
```

```
L1.L2.1_rpc_remu_ev L2.L2.1_rpc_remu_ev L3.L2.1_rpc_remu_ev
L4.L2.1_rpc_remu_ev L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex
L4.2.sex L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp
L2.gdp L3.gdp L4.gdp L1.debt L3.debt L4.debt L1.deficit L2.deficit
L3.deficit L4.deficit L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type
```

```

L4.2bn.party_type L1.3.party_type L2.3.party_type L3.3.party_type
L4.3.party_type L1.win_margin L2.win_margin L3.win_margin L4.win_margin
L1.abstentionism L2.abstentionism L3.abstentionism L4.abstentionism
L1.pop_share014 L2.pop_share014 L3.pop_share014 L4.pop_share014
L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus L4.pop_share65plus
2, model(level):
  D.L.1_rpc_remu_ev D.L2.1_rpc_remu_ev D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(45)      =    53.0198
                                                        Prob > chi2    =    0.1924

```

```

2-step moment functions, 3-step weighting matrix      chi2(45)      =    61.0942
                                                        Prob > chi2    =    0.0552

```

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = **-5.6802** Prob > |z| = **0.0000**
H0: no autocorrelation of order 2: z = **0.4035** Prob > |z| = **0.6866**

Generalized method of moments estimation

```

Fitting full model:
Step 1          f(b) = .26383212
Step 2          f(b) = .14736699

```

```

Fitting reduced model 2:
Step 1          f(b) = 6.491e-21

```

```

Group variable: mun_id                Number of obs      =    1080
Time variable: year                  Number of groups    =     80

```

```

Moment conditions:      linear =    24      Obs per group:   min =     7
                      nonlinear =    0      avg =    13.5
                      total =    24      max =    14

```

(Std. err. adjusted for 80 clusters in **mun_id**)

l_rpc_rentals	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_rentals						
L1.	.5612971	.0755229	7.43	0.000	.413275	.7093191
elec_t	.0513125	.1000045	0.51	0.608	-.1446928	.2473178
Age	.0005613	.0144398	0.04	0.969	-.0277401	.0288627
sex						
Male	.1849699	.3653701	0.51	0.613	-.5311423	.9010822
k_12centers	-.0003735	.0029107	-0.13	0.898	-.0060783	.0053313
gdp	-7.76e-09	2.45e-08	-0.32	0.752	-5.58e-08	4.03e-08
interest_rate	.0190792	.0291502	0.65	0.513	-.0380542	.0762126
debt	.001468	.0120747	0.12	0.903	-.022198	.025134
deficit	-2.59e-07	1.67e-07	-1.55	0.122	-5.87e-07	6.90e-08
party_type						
National	-.411207	1.878299	-0.22	0.827	-4.092606	3.270192
Provincial	-4.096418	12.60699	-0.32	0.745	-28.80566	20.61282
win_margin	.0062991	.0161158	0.39	0.696	-.0252873	.0378855
abstentionism	-.0280362	.0282412	-0.99	0.321	-.0833879	.0273156
pop_share014	.12274	.045189	2.72	0.007	.0341711	.2113088
pop_share65plus	.1921058	.1818907	1.06	0.291	-.1643933	.548605
_cons	.4660847	4.000994	0.12	0.907	-7.375719	8.307889

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L.1_rpc_rentals L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate

```

```

L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
L1.abstentionism L1.pop_share014 L1.pop_share65plus
2, model(level):
  D.L1_rpc_rentals D.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(10)    =    11.7894
                                                         Prob > chi2 =    0.2994

```

```

2-step moment functions, 3-step weighting matrix      chi2(10)    =    12.5792
                                                         Prob > chi2 =    0.2482

```

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = -6.0422 Prob > |z| = 0.0000
H0: no autocorrelation of order 2: z = 1.9917 Prob > |z| = 0.0464

Generalized method of moments estimation

```

Fitting full model:
Step 1          f(b) = .45854948
Step 2          f(b) = .2777683

```

```

Fitting reduced model 2:
Step 1          f(b) = .1773732

```

```

Group variable: mun_id          Number of obs      =    1080
Time variable: year            Number of groups   =     80

```

```

Moment conditions:      linear =    38      Obs per group:   min =     7
                       nonlinear =    0      avg =    13.5
                       total =    38      max =    14

```

(Std. err. adjusted for 80 clusters in mun_id)

l_rpc_rentals	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_rentals						
L1.	.528927	.0586135	9.02	0.000	.4140467	.6438073
elec_t	.0898684	.0981643	0.92	0.360	-.1025301	.2822669
Age	-.0166769	.0112886	-1.48	0.140	-.0388022	.0054484
sex						
Male	.3720713	.2353214	1.58	0.114	-.0891502	.8332928
k_12centers	-.0030352	.0018055	-1.68	0.093	-.006574	.0005035
gdp	2.06e-08	1.35e-08	1.52	0.128	-5.91e-09	4.71e-08
interest_rate	-.0263953	.0256596	-1.03	0.304	-.0766872	.0238966
debt	.0010091	.0090182	0.11	0.911	-.0166662	.0186845
deficit	-2.94e-07	1.23e-07	-2.40	0.016	-5.35e-07	-5.41e-08
party_type						
National	.0910928	1.329216	0.07	0.945	-2.514123	2.696309
Provincial	-2.607524	7.784869	-0.33	0.738	-17.86559	12.65054
win_margin	.0234245	.0139004	1.69	0.092	-.0038198	.0506689
abstentionism	-.0661765	.0260329	-2.54	0.011	-.1172	-.0151529
pop_share014	.1578176	.0387781	4.07	0.000	.0818139	.2338212
pop_share65plus	-.0197028	.1364857	-0.14	0.885	-.2872099	.2478042
_cons	3.712532	3.170845	1.17	0.242	-2.502209	9.927274

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L1_rpc_rentals L2.L1_rpc_rentals L1.Age L2.Age L1.2.sex L2.2.sex
  L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
  L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
  L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin

```



```

L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
2, model(level):
  D.L1_rpc_rentals D.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(24) = 22.2215
Prob > chi2 = 0.5661

2-step moment functions, 3-step weighting matrix chi2(24) = 23.5199
Prob > chi2 = 0.4893

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = -5.8679 Prob > |z| = 0.0000
H0: no autocorrelation of order 2: z = 1.4412 Prob > |z| = 0.1495

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .65143801
Step 2 f(b) = .42704889

Fitting reduced model 2:

Step 1 f(b) = .31804015

Group variable: **mun_id** Number of obs = 1080
Time variable: **year** Number of groups = 80

Moment conditions: linear = 52 Obs per group: min = 7
 nonlinear = 0 avg = 13.5
 total = 52 max = 14

(Std. err. adjusted for 80 clusters in **mun_id**)

l_rpc_rentals	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_rentals						
L1.	.5204223	.0538307	9.67	0.000	.4149161	.6259284
elec_t	.0789808	.0881031	0.90	0.370	-.0936981	.2516596
Age	-.0055096	.0086256	-0.64	0.523	-.0224155	.0113964
sex						
Male	.3190333	.2314399	1.38	0.168	-.1345806	.7726473
k_12centers	-.0022968	.0015335	-1.50	0.134	-.0053023	.0007087
gdp	2.07e-08	1.37e-08	1.51	0.131	-6.18e-09	4.76e-08
interest_rate	-.0341562	.0238844	-1.43	0.153	-.0809689	.0126565
debt	-.0019863	.0079108	-0.25	0.802	-.0174911	.0135186
deficit	-2.19e-07	9.37e-08	-2.34	0.019	-4.03e-07	-3.57e-08
party_type						
National	-.3824991	1.092404	-0.35	0.726	-2.523572	1.758574
Provincial	2.814299	7.163947	0.39	0.694	-11.22678	16.85538
win_margin	.0107947	.009197	1.17	0.241	-.007231	.0288205
abstentionism	-.0337906	.0184385	-1.83	0.067	-.0699295	.0023482
pop_share014	.1258804	.0299156	4.21	0.000	.0672469	.1845139
pop_share65plus	.0341974	.1226258	0.28	0.780	-.2061447	.2745395
_cons	2.326032	2.588439	0.90	0.369	-2.747215	7.399279

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L1_rpc_rentals L2.L1_rpc_rentals L3.L1_rpc_rentals L1.Age L2.Age
  L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
  L3.k_12centers L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate
  L3.interest_rate L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit

```

```

L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L1.3.party_type
L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
L1.abstentionism L2.abstentionism L3.abstentionism L1.pop_share014
L2.pop_share014 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus
L3.pop_share65plus
2, model(level):
  D.L1_rpc_rentals D.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(38) = **34.1639**
Prob > chi2 = **0.6475**

2-step moment functions, 3-step weighting matrix chi2(38) = **39.0729**
Prob > chi2 = **0.4214**

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = **-5.9480** Prob > |z| = **0.0000**
H0: no autocorrelation of order 2: z = **1.6264** Prob > |z| = **0.1039**

Generalized method of moments estimation

Fitting full model:
Step 1 f(b) = **.68560413**
Step 2 f(b) = **.47106142**

Fitting reduced model 2:
Step 1 f(b) = **.35154782**

Group variable: **mun_id** Number of obs = **1080**
Time variable: **year** Number of groups = **80**

Moment conditions: linear = **63** Obs per group: min = **7**
 nonlinear = **0** avg = **13.5**
 total = **63** max = **14**

(Std. err. adjusted for **80** clusters in **mun_id**)

l_rpc_rentals	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_rentals						
L1.	.5269217	.0543243	9.70	0.000	.420448	.6333955
elec_t	.0724364	.0625204	1.16	0.247	-.0501014	.1949742
Age	-.0045569	.0075405	-0.60	0.546	-.0193359	.0102221
sex						
Male	.3035964	.2025635	1.50	0.134	-.0934206	.7006135
k_12centers	-.0024734	.0016602	-1.49	0.136	-.0057272	.0007805
gdp	2.53e-08	1.39e-08	1.82	0.069	-1.94e-09	5.25e-08
interest_rate	-.0387741	.0226879	-1.71	0.087	-.0832415	.0056932
debt	-.0021332	.007348	-0.29	0.772	-.016535	.0122685
deficit	-2.34e-07	8.65e-08	-2.71	0.007	-4.04e-07	-6.46e-08
party_type						
National	-.4009499	.809417	-0.50	0.620	-1.987378	1.185478
Provincial	2.535742	6.8301	0.37	0.710	-10.85101	15.92249
win_margin	.0056863	.0089308	0.64	0.524	-.0118177	.0231903
abstentionism	-.0225186	.0198072	-1.14	0.256	-.06134	.0163027
pop_share014	.1274541	.0290586	4.39	0.000	.0705002	.184408
pop_share65plus	.0407185	.0991353	0.41	0.681	-.1535831	.23502
_cons	1.408342	2.166077	0.65	0.516	-2.837092	5.653775

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L1_rpc_rentals L2.L1_rpc_rentals L3.L1_rpc_rentals L4.L1_rpc_rentals

```

```

L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex L4.2.sex
L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp L2.gdp
L3.gdp L4.gdp L2.interest_rate L1.debt L2.debt L3.debt L4.debt L1.deficit
L2.deficit L3.deficit L4.deficit L1.2bn.party_type L2.2bn.party_type
L3.2bn.party_type L4.2bn.party_type L1.3.party_type L2.3.party_type
L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin L3.win_margin
L4.win_margin L1.abstentionism L2.abstentionism L3.abstentionism
L4.abstentionism L1.pop_share014 L2.pop_share014 L3.pop_share014
L4.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus
L4.pop_share65plus
2, model(level):
  D.L1_rpc_rentals D.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix      chi2(49)    =    37.6849
                                                         Prob > chi2 =    0.8803

2-step moment functions, 3-step weighting matrix      chi2(49)    =    44.6516
                                                         Prob > chi2 =    0.6499

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1:      z =    -5.7334    Prob > |z| =    0.0000
H0: no autocorrelation of order 2:      z =     1.6223    Prob > |z| =    0.1047

Generalized method of moments estimation

Fitting full model:
Step 1          f(b) =   .18047511
Step 2          f(b) =   .11375668

Fitting reduced model 2:
Step 1          f(b) =   7.954e-22

Group variable: mun_id          Number of obs      =    994
Time variable: year            Number of groups   =     80

Moment conditions:      linear =    25      Obs per group:   min =     6
                       nonlinear =    0      avg =    12.425
                       total =    25      max =    13

                               (Std. err. adjusted for 80 clusters in mun_id)

```

	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_rentals						
l_rpc_rentals						
L1.	.5913878	.0691277	8.56	0.000	.4559001	.7268755
L2.	.055435	.0627149	0.88	0.377	-.0674839	.1783539
elec_t	.1135152	.0889014	1.28	0.202	-.0607285	.2877588
Age	.0052288	.0148956	0.35	0.726	-.0239661	.0344237
sex						
Male	.1868872	.2684898	0.70	0.486	-.3393431	.7131176
k_12centers	-.0005079	.0016775	-0.30	0.762	-.0037957	.0027798
gdp	-3.30e-08	2.94e-08	-1.12	0.261	-9.06e-08	2.45e-08
interest_rate	.0190278	.0376387	0.51	0.613	-.0547428	.0927983
debt	.0148658	.0127692	1.16	0.244	-.0101615	.0398931
deficit	-3.23e-07	1.22e-07	-2.65	0.008	-5.62e-07	-8.39e-08
party_type						
National	-.9312037	.8955116	-1.04	0.298	-2.686374	.8239667
Provincial	1.475937	11.90293	0.12	0.901	-21.85338	24.80526
win_margin	.0005578	.0156221	0.04	0.972	-.030061	.0311766
abstentionism	-.0089607	.032628	-0.27	0.784	-.0729104	.0549891
pop_share014	.0980577	.0243021	4.03	0.000	.0504264	.145689

pop_share65plus	.1010657	.1177651	0.86	0.391	-.1297497	.3318811
_cons	.0585184	3.652484	0.02	0.987	-7.100219	7.217256

Instruments corresponding to the linear moment conditions:

- 1, model(diff):
 - L1.L2.1_rpc_rentals L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
 - L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
 - L1.abstentionism L1.pop_share014 L1.pop_share65plus
- 2, model(level):
 - D.L.1_rpc_rentals D.L2.1_rpc_rentals D.elec_t D.Age D.2.sex D.k_12centers
 - D.gdp D.interest_rate D.debt D.deficit
- 3, model(level):
 - _cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(10) = 9.1005
 Prob > chi2 = 0.5226

2-step moment functions, 3-step weighting matrix chi2(10) = 10.9759
 Prob > chi2 = 0.3594

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -5.7391 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = 1.7372 Prob > |z| = 0.0823

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .32876211

Step 2 f(b) = .34412469

Fitting reduced model 2:

Step 1 f(b) = .22879009

Group variable: **mun_id** Number of obs = 994
 Time variable: **year** Number of groups = 80

Moment conditions: linear = 39 Obs per group: min = 6
 nonlinear = 0 avg = 12.425
 total = 39 max = 13

(Std. err. adjusted for 80 clusters in **mun_id**)

l_rpc_rentals	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_rentals						
L1.	.5549585	.0861939	6.44	0.000	.3860216	.7238955
L2.	.0912971	.0813561	1.12	0.262	-.068158	.2507521
elec_t	.1095577	.0972199	1.13	0.260	-.0809899	.3001052
Age	-.0078957	.0150274	-0.53	0.599	-.0373489	.0215574
sex						
Male	.2658731	.1973949	1.35	0.178	-.1210137	.6527599
k_12centers	-.0026686	.002098	-1.27	0.203	-.0067806	.0014435
gdp	3.48e-08	2.49e-08	1.40	0.162	-1.40e-08	8.36e-08
interest_rate	-.058256	.0358829	-1.62	0.104	-.1285853	.0120733
debt	-.0056317	.0124096	-0.45	0.650	-.0299541	.0186906
deficit	-2.37e-07	1.26e-07	-1.88	0.060	-4.85e-07	1.04e-08
party_type						
National	-1.373434	.7908763	-1.74	0.082	-2.923523	.1766549
Provincial	.0554284	8.895138	0.01	0.995	-17.37872	17.48958
win_margin	.0129382	.0118696	1.09	0.276	-.0103258	.0362022
abstentionism	-.0387499	.0246821	-1.57	0.116	-.087126	.0096261
pop_share014	.1300056	.0312903	4.15	0.000	.0686778	.1913334
pop_share65plus	-.0955962	.1487432	-0.64	0.520	-.3871275	.1959352
_cons	3.759804	2.794908	1.35	0.179	-1.718115	9.237723

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L2.l_rpc_rentals L2.L2.l_rpc_rentals L1.Age L2.Age L1.2.sex L2.2.sex
  L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
  L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
  L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
  L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
  L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
2, model(level):
  D.L.l_rpc_rentals D.L2.l_rpc_rentals D.elec_t D.Age D.2.sex D.k_12centers
  D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix	chi2(24)	=	27.5300
	Prob > chi2	=	0.2804

2-step moment functions, 3-step weighting matrix	chi2(24)	=	29.9636
	Prob > chi2	=	0.1860

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-5.4673** Prob > |z| = **0.0000**

H0: no autocorrelation of order 2: z = **0.5270** Prob > |z| = **0.5982**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.47623596**

Step 2 f(b) = **.41378203**

Fitting reduced model 2:

Step 1 f(b) = **.29912571**

Group variable: mun_id	Number of obs	=	994
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Time variable: year	Number of groups	=	80
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Moment conditions:	linear =	53	Obs per group:	min =	6
	nonlinear =	0		avg =	12.425
	total =	53		max =	13

(Std. err. adjusted for 80 clusters in **mun_id**)

l_rpc_rentals	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_rentals						
L1.	.5358256	.0694915	7.71	0.000	.3996248	.6720265
L2.	.0928768	.0756815	1.23	0.220	-.0554562	.2412099
elec_t	.0536158	.0803521	0.67	0.505	-.1038713	.211103
Age	-.0107824	.0115159	-0.94	0.349	-.0333531	.0117884
sex						
Male	.2637227	.1946579	1.35	0.175	-.1177998	.6452451
k_12centers	-.0035159	.0017406	-2.02	0.043	-.0069273	-.0001044
gdp	4.55e-08	2.41e-08	1.89	0.059	-1.69e-09	9.27e-08
interest_rate	-.061154	.0335175	-1.82	0.068	-.1268471	.0045392
debt	-.0104011	.01149	-0.91	0.365	-.0329211	.0121188
deficit	-1.73e-07	1.04e-07	-1.67	0.095	-3.77e-07	3.03e-08
party_type						
National	-1.031179	.776338	-1.33	0.184	-2.552773	.4904157
Provincial	1.948562	6.91584	0.28	0.778	-11.60624	15.50336
win_margin	.0087286	.0122843	0.71	0.477	-.0153481	.0328053
abstentionism	-.0211066	.0220349	-0.96	0.338	-.0642942	.022081
pop_share014	.1230012	.0326013	3.77	0.000	.0591037	.1868986
pop_share65plus	-.0463503	.1230034	-0.38	0.706	-.2874326	.194732

_cons	2.578982	2.589641	1.00	0.319	-2.496621	7.654585
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Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L2.l_rpc_rentals L2.L2.l_rpc_rentals L3.L2.l_rpc_rentals L1.Age L2.Age
  L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
  L3.k_12centers L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate
  L3.interest_rate L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit
  L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L1.3.party_type
  L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
  L1.abstentionism L2.abstentionism L3.abstentionism L1.pop_share014
  L2.pop_share014 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus
  L3.pop_share65plus
2, model(level):
  D.L.l_rpc_rentals D.L2.l_rpc_rentals D.elec_t D.Age D.2.sex D.k_12centers
  D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix	chi2(38)	=	33.1026
	Prob > chi2	=	0.6951

2-step moment functions, 3-step weighting matrix	chi2(38)	=	41.7634
	Prob > chi2	=	0.3106

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1:	z =	-5.6193	Prob > z =	0.0000
H0: no autocorrelation of order 2:	z =	0.5334	Prob > z =	0.5938

Generalized method of moments estimation

Fitting full model:

Step 1	f(b) =	.52467227
Step 2	f(b) =	.48767649

Fitting reduced model 2:

Step 1	f(b) =	.37070515
--------	--------	------------------

Group variable: mun_id	Number of obs	=	994
Time variable: year	Number of groups	=	80

Moment conditions:	linear =	63	Obs per group:	min =	6
	nonlinear =	0		avg =	12.425
	total =	63		max =	13

(Std. err. adjusted for 80 clusters in **mun_id**)

l_rpc_rentals	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_rentals						
L1.	.5291517	.068703	7.70	0.000	.3944964	.6638071
L2.	.083808	.0654039	1.28	0.200	-.0443812	.2119972
elec_t	.0618141	.0731387	0.85	0.398	-.0815351	.2051634
Age	-.0086945	.0083385	-1.04	0.297	-.0250376	.0076486
sex						
Male	.2616988	.1750679	1.49	0.135	-.0814279	.6048255
k_12centers	-.0029049	.0015078	-1.93	0.054	-.0058602	.0000503
gdp	4.28e-08	2.23e-08	1.92	0.055	-9.18e-10	8.65e-08
interest_rate	-.0636569	.0299848	-2.12	0.034	-.1224261	-.0048877
debt	-.0105136	.0100468	-1.05	0.295	-.0302049	.0091777
deficit	-1.92e-07	9.53e-08	-2.01	0.044	-3.78e-07	-4.72e-09
party_type						
National	-.6836568	.6670944	-1.02	0.305	-1.991138	.6238242
Provincial	-.2456951	5.839563	-0.04	0.966	-11.69103	11.19964

win_margin	.0061575	.0107183	0.57	0.566	-.0148501	.027165
abstentionism	-.0217431	.0186839	-1.16	0.245	-.0583629	.0148766
pop_share014	.125422	.0278894	4.50	0.000	.0707599	.1800842
pop_share65plus	-.0155471	.0961936	-0.16	0.872	-.204083	.1729889
_cons	2.056943	2.242724	0.92	0.359	-2.338716	6.452602

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L2.l_rpc_rentals L2.L2.l_rpc_rentals L3.L2.l_rpc_rentals
  L4.L2.l_rpc_rentals L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex
  L4.2.sex L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp
  L2.gdp L3.gdp L4.gdp L2.interest_rate L2.debt L3.debt L4.debt L1.deficit
  L2.deficit L3.deficit L4.deficit L1.2bn.party_type L2.2bn.party_type
  L3.2bn.party_type L4.2bn.party_type L1.3.party_type L2.3.party_type
  L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin L3.win_margin
  L4.win_margin L1.abstentionism L2.abstentionism L3.abstentionism
  L4.abstentionism L1.pop_share014 L2.pop_share014 L3.pop_share014
  L4.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus
  L4.pop_share65plus
2, model(level):
  D.L1.l_rpc_rentals D.L2.l_rpc_rentals D.elec_t D.Age D.2.sex D.k_12centers
  D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(48) = 39.0141
 Prob > chi2 = 0.8192

2-step moment functions, 3-step weighting matrix chi2(48) = 54.1852
 Prob > chi2 = 0.2503

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -5.5062 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = 0.6658 Prob > |z| = 0.5056

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .28351223

Step 2 f(b) = .14974832

Fitting reduced model 2:

Step 1 f(b) = 1.790e-20

Group variable: **mun_id**

Number of obs = 1080

Time variable: **year**

Number of groups = 80

Moment conditions: linear = 25 Obs per group: min = 7
 nonlinear = 0 avg = 13.5
 total = 25 max = 14

(Std. err. adjusted for 80 clusters in **mun_id**)

l_rpc_rentals	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_rentals						
L1.	.5527956	.0697706	7.92	0.000	.4160478	.6895434
elec_t						
--.	-.1238151	.1723857	-0.72	0.473	-.4616849	.2140547
L1.	-.2137545	.1482148	-1.44	0.149	-.5042501	.0767412
Age	-.0000347	.0139294	-0.00	0.998	-.0273359	.0272665
sex						
Male	.21398	.3389328	0.63	0.528	-.4503161	.8782762
k_12centers	-.0005521	.0028049	-0.20	0.844	-.0060497	.0049454
gdp	-2.45e-09	2.33e-08	-0.11	0.916	-4.82e-08	4.33e-08

interest_rate	-.0239819	.042467	-0.56	0.572	-.1072157	.059252
debt	-.0045893	.0145067	-0.32	0.752	-.0330218	.0238432
deficit	-9.42e-08	2.43e-07	-0.39	0.699	-5.71e-07	3.83e-07
party_type						
National	-.3123989	1.865193	-0.17	0.867	-3.96811	3.343312
Provincial	-3.872349	12.2681	-0.32	0.752	-27.91738	20.17268
win_margin	.0075949	.0151704	0.50	0.617	-.0221385	.0373283
abstentionism	-.0358026	.0246321	-1.45	0.146	-.0840806	.0124753
pop_share014	.1092676	.0403109	2.71	0.007	.0302596	.1882756
pop_share65plus	.1700306	.1617087	1.05	0.293	-.1469126	.4869737
_cons	2.202647	3.354928	0.66	0.511	-4.372892	8.778186

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L1_rpc_rentals L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
L1.abstentionism L1.pop_share014 L1.pop_share65plus

2, model(level):

D.L1_rpc_rentals D.elec_t D.L.elec_t D.Age D.2.sex D.k_12centers D.gdp
D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(10) = 11.9799
Prob > chi2 = 0.2864

2-step moment functions, 3-step weighting matrix chi2(10) = 12.6918
Prob > chi2 = 0.2414

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -6.0984 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = 1.8712 Prob > |z| = 0.0613

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .4238013

Step 2 f(b) = .25953624

Fitting reduced model 2:

Step 1 f(b) = .0922966

Group variable: **mun_id**

Number of obs = 1080

Time variable: **year**

Number of groups = 80

Moment conditions: linear = 39 Obs per group: min = 7
 nonlinear = 0 avg = 13.5
 total = 39 max = 14

(Std. err. adjusted for 80 clusters in **mun_id**)

l_rpc_rentals	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_rentals						
L1.	.526296	.0538638	9.77	0.000	.4207249	.6318671
elec_t						
--.	-.0502539	.1352004	-0.37	0.710	-.3152417	.214734
L1.	-.1986976	.1223605	-1.62	0.104	-.4385198	.0411246
Age	-.0138711	.0108761	-1.28	0.202	-.0351878	.0074456
sex						
Male	.3223273	.2262366	1.42	0.154	-.1210884	.765743
k_12centers	-.0028295	.0017628	-1.61	0.108	-.0062846	.0006256
gdp	2.00e-08	1.39e-08	1.44	0.151	-7.31e-09	4.73e-08

interest_rate	-.0639953	.0342833	-1.87	0.062	-.1311893	.0031986
debt	-.0059004	.0100466	-0.59	0.557	-.0255914	.0137906
deficit	-1.03e-07	1.67e-07	-0.62	0.537	-4.30e-07	2.24e-07
party_type						
National	.1454283	1.359603	0.11	0.915	-2.519345	2.810201
Provincial	.0114827	7.736222	0.00	0.999	-15.15123	15.1742
win_margin	.0170569	.0149764	1.14	0.255	-.0122962	.0464101
abstentionism	-.0525198	.0270075	-1.94	0.052	-.1054535	.0004139
pop_share014	.1386709	.0396306	3.50	0.000	.0609963	.2163454
pop_share65plus	.054314	.1437657	0.38	0.706	-.2274616	.3360896
_cons	3.586516	3.172791	1.13	0.258	-2.63204	9.805073

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L1.rpc_rentals L2.L1.rpc_rentals L1.Age L2.Age L1.2.sex L2.2.sex
  L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
  L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
  L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
  L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
  L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
2, model(level):
  D.L1.rpc_rentals D.elec_t D.L.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(24) = 20.7629
 Prob > chi2 = 0.6527

2-step moment functions, 3-step weighting matrix chi2(24) = 23.6809
 Prob > chi2 = 0.4800

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -5.9638 Prob > |z| = 0.0000
 H0: no autocorrelation of order 2: z = 1.4517 Prob > |z| = 0.1466

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .59512494
 Step 2 f(b) = .42444921

Fitting reduced model 2:

Step 1 f(b) = .31078457

Group variable: **mun_id** Number of obs = 1080
 Time variable: **year** Number of groups = 80

Moment conditions: linear = 53 Obs per group: min = 7
 nonlinear = 0 avg = 13.5
 total = 53 max = 14

(Std. err. adjusted for 80 clusters in **mun_id**)

	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_rentals						
l_rpc_rentals						
L1.	.5219313	.0528102	9.88	0.000	.4184252	.6254373
elec_t						
--.	-.0409477	.1004571	-0.41	0.684	-.23784	.1559447
L1.	-.2059066	.1253917	-1.64	0.101	-.4516698	.0398566
Age	-.0043175	.0086963	-0.50	0.620	-.021362	.0127271
sex						

Male	.2142021	.2553698	0.84	0.402	-.2863135	.7147178
k_12centers	-.0019169	.0013838	-1.39	0.166	-.0046291	.0007954
gdp	1.52e-08	1.45e-08	1.05	0.295	-1.33e-08	4.37e-08
interest_rate	-.0711336	.0340869	-2.09	0.037	-.1379426	-.0043246
debt	-.0082498	.0090703	-0.91	0.363	-.0260273	.0095276
deficit	-4.04e-08	1.61e-07	-0.25	0.802	-3.55e-07	2.75e-07
party_type						
National	-.5379307	1.068632	-0.50	0.615	-2.632411	1.55655
Provincial	3.998044	6.839895	0.58	0.559	-9.407904	17.40399
win_margin	.0087232	.0099794	0.87	0.382	-.0108361	.0282826
abstentionism	-.0263534	.0212809	-1.24	0.216	-.0680632	.0153564
pop_share014	.1032297	.0333425	3.10	0.002	.0378796	.1685799
pop_share65plus	.1068962	.1269404	0.84	0.400	-.1419023	.3556947
_cons	3.019544	2.774448	1.09	0.276	-2.418273	8.457361

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L.1_rpc_rentals L2.L.1_rpc_rentals L3.L.1_rpc_rentals L1.Age L2.Age
 L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
 L3.k_12centers L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate
 L3.interest_rate L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit
 L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L1.3.party_type
 L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
 L1.abstentionism L2.abstentionism L3.abstentionism L1.pop_share014
 L2.pop_share014 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus
 L3.pop_share65plus

2, model(level):

D.L.1_rpc_rentals D.elec_t D.L.elec_t D.Age D.2.sex D.k_12centers D.gdp
 D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(38) = 33.9559
 Prob > chi2 = 0.6570

2-step moment functions, 3-step weighting matrix chi2(38) = 38.3716
 Prob > chi2 = 0.4526

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -5.9691 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = 1.5221 Prob > |z| = 0.1280

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .62294384

Step 2 f(b) = .46451868

Fitting reduced model 2:

Step 1 f(b) = .35531154

Group variable: mun_id Number of obs = 1080
 Time variable: year Number of groups = 80

Moment conditions: linear = 64 Obs per group: min = 7
 nonlinear = 0 avg = 13.5
 total = 64 max = 14

(Std. err. adjusted for 80 clusters in `mun_id`)

<code>l_rpc_rentals</code>	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
<code>l_rpc_rentals</code>						
<code>L1.</code>	.5248781	.0505399	10.39	0.000	.4258217	.6239345
<code>elec_t</code>						
<code>--.</code>	-.0421635	.0776387	-0.54	0.587	-.1943325	.1100055
<code>L1.</code>	-.2250292	.1035967	-2.17	0.030	-.4280749	-.0219835
<code>Age</code>	-.0023209	.0074633	-0.31	0.756	-.0169487	.0123069
<code>sex</code>						
<code>Male</code>	.1416985	.2041696	0.69	0.488	-.2584665	.5418635
<code>k_12centers</code>	-.0017974	.0013858	-1.30	0.195	-.0045136	.0009187
<code>gdp</code>	1.73e-08	1.39e-08	1.24	0.213	-9.94e-09	4.45e-08
<code>interest_rate</code>	-.0769747	.0308879	-2.49	0.013	-.1375138	-.0164355
<code>debt</code>	-.0082022	.0079149	-1.04	0.300	-.0237151	.0073108
<code>deficit</code>	-3.62e-08	1.12e-07	-0.32	0.746	-2.56e-07	1.83e-07
<code>party_type</code>						
<code>National</code>	-.4260997	.8472507	-0.50	0.615	-2.086681	1.234481
<code>Provincial</code>	3.469621	5.740299	0.60	0.546	-7.781159	14.7204
<code>win_margin</code>	.0025479	.0074954	0.34	0.734	-.0121428	.0172387
<code>abstentionism</code>	-.0167344	.012868	-1.30	0.193	-.0419551	.0084864
<code>pop_share014</code>	.1037097	.0325373	3.19	0.001	.0399378	.1674815
<code>pop_share65plus</code>	.1224434	.1035068	1.18	0.237	-.0804263	.3253131
<code>_cons</code>	2.133736	2.331369	0.92	0.360	-2.435662	6.703135

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L1_rpc_rentals L2.L1_rpc_rentals L3.L1_rpc_rentals L4.L1_rpc_rentals
  L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex L4.2.sex
  L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp L2.gdp
  L3.gdp L4.gdp L2.interest_rate L1.debt L2.debt L3.debt L4.debt L1.deficit
  L2.deficit L3.deficit L4.deficit L1.2bn.party_type L2.2bn.party_type
  L3.2bn.party_type L4.2bn.party_type L1.3.party_type L2.3.party_type
  L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin L3.win_margin
  L4.win_margin L1.abstentionism L2.abstentionism L3.abstentionism
  L4.abstentionism L1.pop_share014 L2.pop_share014 L3.pop_share014
  L4.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus
  L4.pop_share65plus
2, model(level):
  D.L1_rpc_rentals D.elec_t D.L.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(49)    =    37.1615
                                                         Prob > chi2 =    0.8925

```

```

2-step moment functions, 3-step weighting matrix      chi2(49)    =    46.6850
                                                         Prob > chi2 =    0.5675

```

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-5.6053** Prob > |z| = **0.0000**H0: no autocorrelation of order 2: z = **1.5104** Prob > |z| = **0.1309**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.19814145**Step 2 f(b) = **.11631299**

Group variable: **mun_id** Number of obs = **994**
 Time variable: **year** Number of groups = **80**

Moment conditions: linear = **26** Obs per group: min = **6**
 nonlinear = **0** avg = **12.425**
 total = **26** max = **13**

(Std. err. adjusted for **80** clusters in **mun_id**)

l_rpc_rentals	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_rentals						
L1.	.5556362	.0722114	7.69	0.000	.4141045	.6971679
L2.	.0484277	.0627308	0.77	0.440	-.0745224	.1713778
elec_t						
--.	-.1619211	.1365892	-1.19	0.236	-.4296309	.1057888
L1.	-.3246252	.1376428	-2.36	0.018	-.5944001	-.0548503
Age	.0043161	.0147068	0.29	0.769	-.0245087	.0331408
sex						
Male	.1959831	.2546869	0.77	0.442	-.3031941	.6951604
k_12centers	-.0005081	.0017033	-0.30	0.765	-.0038465	.0028303
gdp	-2.77e-08	2.78e-08	-1.00	0.319	-8.23e-08	2.68e-08
interest_rate	-.0470116	.0424652	-1.11	0.268	-.1302419	.0362188
debt	.0056506	.0127991	0.44	0.659	-.0194352	.0307364
deficit	-5.73e-08	1.65e-07	-0.35	0.729	-3.81e-07	2.66e-07
party_type						
National	-.7166724	.9105955	-0.79	0.431	-2.501407	1.068062
Provincial	2.885455	12.08391	0.24	0.811	-20.79857	26.56948
win_margin	.0036997	.0144373	0.26	0.798	-.0245969	.0319962
abstentionism	-.021204	.0318356	-0.67	0.505	-.0836007	.0411927
pop_share014	.0814582	.0258647	3.15	0.002	.0307644	.132152
pop_share65plus	.0997192	.1191504	0.84	0.403	-.1338113	.3332498
_cons	2.634348	3.404658	0.77	0.439	-4.038659	9.307354

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L2.l_rpc_rentals L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
  L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
  L1.abstentionism L1.pop_share014 L1.pop_share65plus
2, model(level):
  D.L.l_rpc_rentals D.L2.l_rpc_rentals D.elec_t D.L.elec_t D.Age D.2.sex
  D.k_12centers D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(10) = **9.3050**
 Prob > chi2 = **0.5034**

2-step moment functions, 3-step weighting matrix chi2(10) = **11.7042**
 Prob > chi2 = **0.3053**

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-5.8916** Prob > |z| = **0.0000**
 H0: no autocorrelation of order 2: z = **1.4289** Prob > |z| = **0.1530**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.32095478**
 Step 2 f(b) = **.32315296**

Fitting reduced model 2:
Step 1 f(b) = .13745112

Group variable: **mun_id** Number of obs = 994
Time variable: **year** Number of groups = 80

Moment conditions: linear = 40 Obs per group: min = 6
nonlinear = 0 avg = 12.425
total = 40 max = 13

(Std. err. adjusted for 80 clusters in **mun_id**)

l_rpc_rentals	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_rentals						
L1.	.536878	.0746715	7.19	0.000	.3905245	.6832315
L2.	.0766076	.0780886	0.98	0.327	-.0764433	.2296585
elec_t						
L1.	-.0484185	.1291889	-0.37	0.708	-.3016241	.2047871
L2.	-.2418577	.1331779	-1.82	0.069	-.5028815	.0191662
Age	-.0068649	.0141564	-0.48	0.628	-.0346108	.0208811
sex						
Male	.1773751	.1891484	0.94	0.348	-.1933489	.5480991
k_12centers	-.0024443	.0019705	-1.24	0.215	-.0063063	.0014178
gdp	2.68e-08	2.38e-08	1.13	0.260	-1.98e-08	7.34e-08
interest_rate	-.1057833	.0411933	-2.57	0.010	-.1865206	-.025046
debt	-.0080607	.0120702	-0.67	0.504	-.0317179	.0155965
deficit	-5.34e-08	1.71e-07	-0.31	0.755	-3.88e-07	2.82e-07
party_type						
National	-1.317563	.9525214	-1.38	0.167	-3.184471	.5493446
Provincial	3.294536	9.999184	0.33	0.742	-16.3035	22.89258
win_margin	.0098977	.0115652	0.86	0.392	-.0127697	.0325651
abstentionism	-.0322839	.0247046	-1.31	0.191	-.080704	.0161362
pop_share014	.1094953	.0314889	3.48	0.001	.0477782	.1712124
pop_share65plus	-.0655566	.1365433	-0.48	0.631	-.3331766	.2020635
_cons	4.776195	2.635912	1.81	0.070	-.3900963	9.942487

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L2.l_rpc_rentals L2.L2.l_rpc_rentals L1.Age L2.Age L1.2.sex L2.2.sex
  L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
  L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
  L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
  L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
  L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
2, model(level):
  D.L.l_rpc_rentals D.L2.l_rpc_rentals D.elec_t D.L.elec_t D.Age D.2.sex
  D.k_12centers D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(24) = 25.8522
Prob > chi2 = 0.3607

2-step moment functions, 3-step weighting matrix chi2(24) = 28.3277
Prob > chi2 = 0.2465

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -5.6628 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = 0.5557 Prob > |z| = 0.5784

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .47193187

Step 2 f(b) = .42699951

Fitting reduced model 2:

Step 1 f(b) = .28626065

Group variable: **mun_id**

Number of obs = 994

Time variable: **year**

Number of groups = 80

Moment conditions:	linear =	54	Obs per group:	min =	6
	nonlinear =	0		avg =	12.425
	total =	54		max =	13

(Std. err. adjusted for 80 clusters in **mun_id**)

l_rpc_rentals	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_rentals						
L1.	.5437036	.0590433	9.21	0.000	.4279808	.6594263
L2.	.091411	.0684696	1.34	0.182	-.0427869	.2256088
elec_t						
--.	-.0580689	.0820879	-0.71	0.479	-.2189583	.1028205
L1.	-.1776749	.1045604	-1.70	0.089	-.3826095	.0272596
Age	-.0074557	.008306	-0.90	0.369	-.0237351	.0088238
sex						
Male	.1827294	.1974396	0.93	0.355	-.2042452	.5697039
k_12centers	-.0028055	.0015456	-1.82	0.070	-.0058349	.0002238
gdp	3.88e-08	2.48e-08	1.56	0.118	-9.84e-09	8.75e-08
interest_rate	-.0965701	.0369437	-2.61	0.009	-.1689784	-.0241619
debt	-.0160849	.0107503	-1.50	0.135	-.0371551	.0049853
deficit	-6.65e-09	1.26e-07	-0.05	0.958	-2.53e-07	2.40e-07
party_type						
National	-1.054501	.8257107	-1.28	0.202	-2.672864	.5638622
Provincial	2.39123	6.998419	0.34	0.733	-11.32542	16.10788
win_margin	.0043892	.0117871	0.37	0.710	-.0187131	.0274915
abstentionism	-.0116125	.0239517	-0.48	0.628	-.0585569	.0353319
pop_share014	.103611	.0294273	3.52	0.000	.0459345	.1612875
pop_share65plus	.0275891	.0890076	0.31	0.757	-.1468626	.2020408
_cons	2.713868	2.612385	1.04	0.299	-2.406311	7.834048

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.1_rpc_rentals L2.L2.1_rpc_rentals L3.L2.1_rpc_rentals L1.Age L2.Age
 L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
 L3.k_12centers L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate
 L3.interest_rate L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit
 L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L1.3.party_type
 L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
 L1.abstentionism L2.abstentionism L3.abstentionism L1.pop_share014
 L2.pop_share014 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus
 L3.pop_share65plus

2, model(level):

D.L.1_rpc_rentals D.L2.1_rpc_rentals D.elec_t D.L.elec_t D.Age D.2.sex
 D.k_12centers D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix	chi2(38)	=	34.1600
	Prob > chi2	=	0.6477

2-step moment functions, 3-step weighting matrix $\chi^2(38) = 39.8553$
 Prob > $\chi^2 = 0.3875$

Arellano-Bond test for autocorrelation of the first-differenced residuals
 H0: no autocorrelation of order 1: $z = -5.7032$ Prob > $|z| = 0.0000$
 H0: no autocorrelation of order 2: $z = 0.5733$ Prob > $|z| = 0.5664$

Generalized method of moments estimation

Fitting full model:

Step 1 $f(b) = .51790032$
 Step 2 $f(b) = .50429014$

Fitting reduced model 2:

Step 1 $f(b) = .38176869$

Group variable: **mun_id** Number of obs = 994
 Time variable: **year** Number of groups = 80

Moment conditions: linear = 64 Obs per group: min = 6
 nonlinear = 0 avg = 12.425
 total = 64 max = 13

(Std. err. adjusted for 80 clusters in **mun_id**)

l_rpc_rentals	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_rentals						
L1.	.5478835	.0624368	8.78	0.000	.4255097	.6702573
L2.	.1056132	.0724317	1.46	0.145	-.0363504	.2475767
elec_t						
--.	-.0255603	.0797319	-0.32	0.749	-.181832	.1307113
L1.	-.1587734	.1037959	-1.53	0.126	-.3622097	.0446629
Age	-.0087591	.0071167	-1.23	0.218	-.0227077	.0051894
sex						
Male	.152818	.182944	0.84	0.404	-.2057457	.5113817
k_12centers	-.0026536	.0013038	-2.04	0.042	-.0052091	-.0000982
gdp	4.15e-08	2.52e-08	1.64	0.100	-7.99e-09	9.09e-08
interest_rate	-.1005618	.0388116	-2.59	0.010	-.1766312	-.0244924
debt	-.015803	.0108094	-1.46	0.144	-.0369891	.0053831
deficit	-4.67e-08	1.26e-07	-0.37	0.711	-2.93e-07	2.00e-07
party_type						
National	-.8728653	.7973621	-1.09	0.274	-2.435666	.6899356
Provincial	.7733823	5.540787	0.14	0.889	-10.08636	11.63312
win_margin	.0003665	.0106078	0.03	0.972	-.0204244	.0211573
abstentionism	-.0105078	.0217725	-0.48	0.629	-.0531811	.0321655
pop_share014	.1090833	.0272857	4.00	0.000	.0556042	.1625624
pop_share65plus	.0202608	.0785496	0.26	0.796	-.1336935	.1742152
_cons	2.248236	2.471496	0.91	0.363	-2.595808	7.09228

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.l_rpc_rentals L2.L2.l_rpc_rentals L3.L2.l_rpc_rentals
 L4.L2.l_rpc_rentals L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex
 L4.2.sex L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp
 L2.gdp L3.gdp L4.gdp L2.interest_rate L2.debt L3.debt L4.debt L1.deficit
 L2.deficit L3.deficit L4.deficit L1.2bn.party_type L2.2bn.party_type
 L3.2bn.party_type L4.2bn.party_type L1.3.party_type L2.3.party_type
 L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin L3.win_margin
 L4.win_margin L1.abstentionism L2.abstentionism L3.abstentionism
 L4.abstentionism L1.pop_share014 L2.pop_share014 L3.pop_share014
 L4.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus
 L4.pop_share65plus

2, model(level):

D.L.l_rpc_rentals D.L2.l_rpc_rentals D.elec_t D.L.elec_t D.Age D.2.sex
 D.k_12centers D.gdp D.interest_rate D.debt D.deficit

```
3, model(level):
    _cons
```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

```
2-step moment functions, 2-step weighting matrix      chi2(48)      =    40.3432
                                                         Prob > chi2    =    0.7759
```

```
2-step moment functions, 3-step weighting matrix      chi2(48)      =    51.4616
                                                         Prob > chi2    =    0.3399
```

Arellano-Bond test for autocorrelation of the first-differenced residuals

```
H0: no autocorrelation of order 1:      z =    -5.6644    Prob > |z|    =    0.0000
H0: no autocorrelation of order 2:      z =     0.3164    Prob > |z|    =    0.7517
```

Generalized method of moments estimation

Fitting full model:

```
Step 1      f(b) =    .03680397
Step 2      f(b) =    .11077715
```

Fitting reduced model 2:

```
Step 1      f(b) =    3.025e-19
```

```
Group variable: mun_id      Number of obs      =    1122
Time variable: year        Number of groups    =     81
```

```
Moment conditions:      linear =     24      Obs per group:      min =     11
                        nonlinear =    0          avg =   13.85185
                        total =     24          max =     14
```

(Std. err. adjusted for 81 clusters in mun_id)

l_rpc_serv_cf	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_serv_cf						
L1.	.5044738	.0896697	5.63	0.000	.3287245	.6802231
elec_t	.1089713	.0747334	1.46	0.145	-.0375034	.2554461
Age	.0025831	.0074245	0.35	0.728	-.0119687	.0171349
sex						
Male	-.1709894	.176369	-0.97	0.332	-.5166662	.1746875
k_12centers	-.0025479	.0015996	-1.59	0.111	-.005683	.0005873
gdp	3.80e-08	1.33e-08	2.85	0.004	1.19e-08	6.42e-08
interest_rate	-.012719	.0160847	-0.79	0.429	-.0442444	.0188065
debt	-.0054953	.0076183	-0.72	0.471	-.020427	.0094363
deficit	-7.78e-08	1.42e-07	-0.55	0.584	-3.56e-07	2.01e-07
party_type						
National	-.0389213	.3359559	-0.12	0.908	-.6973827	.6195402
Provincial	11.88201	10.39055	1.14	0.253	-8.483096	32.24712
win_margin	-.0083203	.0075615	-1.10	0.271	-.0231406	.0064999
abstentionism	.0093337	.0159381	0.59	0.558	-.0219044	.0405719
pop_share014	.0520969	.0297737	1.75	0.080	-.0062585	.1104522
pop_share65plus	.0513376	.0957733	0.54	0.592	-.1363747	.2390498
_cons	.5706115	1.039129	0.55	0.583	-1.466043	2.607266

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
```

```
    L1.L1_rpc_serv_cf L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
    L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
    L1.abstentionism L1.pop_share014 L1.pop_share65plus
```

```
2, model(level):
```

```
    D.L1_rpc_serv_cf D.elec_t D.Age D.2.sex D.k_12centers D.gdp
    D.interest_rate D.debt D.deficit
```

```
3, model(level):
```

```
    _cons
```


Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(10) = 8.9729
Prob > chi2 = 0.5347

2-step moment functions, 3-step weighting matrix chi2(10) = 15.9337
Prob > chi2 = 0.1015

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -4.3653 Prob > |z| = 0.0000
H0: no autocorrelation of order 2: z = 1.7850 Prob > |z| = 0.0743

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .12223538
Step 2 f(b) = .28961396

Fitting reduced model 2:

Step 1 f(b) = .18240885

Group variable: **mun_id** Number of obs = 1122
Time variable: **year** Number of groups = 81

Moment conditions: linear = 38 Obs per group: min = 11
 nonlinear = 0 avg = 13.85185
 total = 38 max = 14

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_serv_cf	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_serv_cf						
L1.	.4677078	.0815962	5.73	0.000	.3077822	.6276334
elec_t	.0575501	.057198	1.01	0.314	-.0545559	.1696561
Age	-.0011825	.006706	-0.18	0.860	-.0143259	.0119609
sex						
Male	-.0336289	.1540557	-0.22	0.827	-.3355726	.2683148
k_12centers	-.0020046	.0010956	-1.83	0.067	-.004152	.0001428
gdp	3.55e-08	1.26e-08	2.83	0.005	1.09e-08	6.02e-08
interest_rate	-.0108524	.0154588	-0.70	0.483	-.0411511	.0194463
debt	-.0080217	.0044644	-1.80	0.072	-.0167718	.0007283
deficit	-1.43e-08	8.53e-08	-0.17	0.867	-1.82e-07	1.53e-07
party_type						
National	.1272433	.5107875	0.25	0.803	-.8738817	1.128368
Provincial	6.304242	6.088947	1.04	0.301	-5.629874	18.23836
win_margin	-.0039221	.0084774	-0.46	0.644	-.0205375	.0126933
abstentionism	.002889	.0159073	0.18	0.856	-.0282887	.0340667
pop_share014	.0365406	.0177747	2.06	0.040	.0017027	.0713784
pop_share65plus	.0781515	.0470482	1.66	0.097	-.0140613	.1703642
_cons	1.529952	1.024176	1.49	0.135	-.4773957	3.537301

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L1.l_rpc_serv_cf L2.L1.l_rpc_serv_cf L1.Age L2.Age L1.2.sex L2.2.sex
L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
L2.pop_share014 L1.pop_share65plus L2.pop_share65plus

2, model(level):

D.L1.l_rpc_serv_cf D.elec_t D.Age D.2.sex D.k_12centers D.gdp
D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(24) = 23.4587
Prob > chi2 = 0.4929

2-step moment functions, 3-step weighting matrix chi2(24) = 33.5379
Prob > chi2 = 0.0932

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = -4.3522 Prob > |z| = 0.0000
H0: no autocorrelation of order 2: z = 1.7067 Prob > |z| = 0.0879

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .18646908
Step 2 f(b) = .44495473

Fitting reduced model 2:

Step 1 f(b) = .37632121

Group variable: **mun_id** Number of obs = 1122
Time variable: **year** Number of groups = 81

Moment conditions: linear = 52 Obs per group: min = 11
 nonlinear = 0 avg = 13.85185
 total = 52 max = 14

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_serv_cf	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_serv_cf						
l1.	.5529631	.0600203	9.21	0.000	.4353256	.6706007
elec_t	.0647411	.056091	1.15	0.248	-.0451952	.1746774
Age	-.0039862	.006467	-0.62	0.538	-.0166614	.008689
sex						
Male	.0116676	.1308448	0.09	0.929	-.2447835	.2681186
k_12centers	-.0019621	.0012104	-1.62	0.105	-.0043345	.0004103
gdp	3.06e-08	1.04e-08	2.94	0.003	1.02e-08	5.11e-08
interest_rate	-.015384	.0144213	-1.07	0.286	-.0436492	.0128812
debt	-.0075631	.0041971	-1.80	0.072	-.0157892	.000663
deficit	-7.97e-08	6.87e-08	-1.16	0.246	-2.14e-07	5.50e-08
party_type						
National	-.173898	.4302723	-0.40	0.686	-1.017216	.6694203
Provincial	.5325183	4.392071	0.12	0.903	-8.075783	9.140819
win_margin	.0003041	.0064794	0.05	0.963	-.0123952	.0130035
abstentionism	-.0035807	.0118549	-0.30	0.763	-.0268159	.0196545
pop_share014	.0423184	.0199896	2.12	0.034	.0031395	.0814973
pop_share65plus	.0716999	.0491641	1.46	0.145	-.0246601	.1680598
_cons	1.744356	.9581167	1.82	0.069	-.1335184	3.62223

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L1.l_rpc_serv_cf L2.L1.l_rpc_serv_cf L3.L1.l_rpc_serv_cf L1.Age L2.Age
L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
L3.k_12centers L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate
L3.interest_rate L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit
L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L1.3.party_type
L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
L1.abstentionism L2.abstentionism L3.abstentionism L1.pop_share014
L2.pop_share014 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus
L3.pop_share65plus

2, model(level):

D.L1.l_rpc_serv_cf D.elec_t D.Age D.2.sex D.k_12centers D.gdp
D.interest_rate D.debt D.deficit

```
3, model(level):
    _cons
```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

```
2-step moment functions, 2-step weighting matrix      chi2(38)      =    36.0413
                                                         Prob > chi2    =    0.5603
```

```
2-step moment functions, 3-step weighting matrix      chi2(38)      =    47.0791
                                                         Prob > chi2    =    0.1483
```

Arellano-Bond test for autocorrelation of the first-differenced residuals

```
H0: no autocorrelation of order 1:      z =    -4.3368    Prob > |z|    =    0.0000
H0: no autocorrelation of order 2:      z =     1.5943    Prob > |z|    =    0.1109
```

Generalized method of moments estimation

Fitting full model:

```
Step 1      f(b) =    .19714024
Step 2      f(b) =    .57751118
```

Fitting reduced model 2:

```
Step 1      f(b) =    .54213962
```

```
Group variable: mun_id      Number of obs      =    1122
Time variable: year        Number of groups   =     81
```

```
Moment conditions:      linear =     62      Obs per group:   min =     11
                        nonlinear =    0          avg =   13.85185
                        total =     62          max =     14
```

(Std. err. adjusted for 81 clusters in mun_id)

l_rpc_serv_cf	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_serv_cf						
L1.	.5338059	.0571237	9.34	0.000	.4218456	.6457663
elec_t	.0570732	.0528349	1.08	0.280	-.0464813	.1606276
Age	-.0001018	.0063701	-0.02	0.987	-.0125869	.0123834
sex						
Male	.0348426	.1261476	0.28	0.782	-.2124022	.2820874
k_12centers	-.0013765	.0010724	-1.28	0.199	-.0034784	.0007254
gdp	3.10e-08	9.36e-09	3.31	0.001	1.27e-08	4.94e-08
interest_rate	-.0102834	.014144	-0.73	0.467	-.0380051	.0174383
debt	-.0090682	.0035881	-2.53	0.011	-.0161007	-.0020357
deficit	-5.11e-08	6.50e-08	-0.79	0.432	-1.79e-07	7.63e-08
party_type						
National	-.1137029	.4686885	-0.24	0.808	-1.032315	.8049096
Provincial	1.593539	3.914032	0.41	0.684	-6.077823	9.264901
win_margin	.002176	.0053155	0.41	0.682	-.0082422	.0125941
abstentionism	-.0020066	.0093614	-0.21	0.830	-.0203546	.0163415
pop_share014	.0370692	.018096	2.05	0.041	.0016017	.0725368
pop_share65plus	.0934704	.0460565	2.03	0.042	.0032012	.1837395
_cons	1.465795	.8470267	1.73	0.084	-.1943472	3.125936

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
```

```
L1.L1_rpc_serv_cf L2.L1_rpc_serv_cf L3.L1_rpc_serv_cf L4.L1_rpc_serv_cf
L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex L4.2.sex
L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp L2.gdp
L3.gdp L4.gdp L2.interest_rate L4.interest_rate L2.debt L3.debt L4.debt
L1.deficit L2.deficit L3.deficit L4.deficit L1.2bn.party_type
L2.2bn.party_type L3.2bn.party_type L4.2bn.party_type L1.3.party_type
L2.3.party_type L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin
L3.win_margin L4.win_margin L1.abstentionism L2.abstentionism
L3.abstentionism L4.abstentionism L1.pop_share014 L2.pop_share014
```

```

L3.pop_share014 L4.pop_share014 L1.pop_share65plus L2.pop_share65plus
L3.pop_share65plus L4.pop_share65plus
2, model(level):
  D.L1.rpc_serv_cf D.Age D.2.sex D.k_12centers D.gdp D.interest_rate D.debt
  D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix $\chi^2(48) = 46.7784$
Prob > $\chi^2 = 0.5229$

2-step moment functions, 3-step weighting matrix $\chi^2(48) = 62.6990$
Prob > $\chi^2 = 0.0755$

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: $z = -4.4740$ Prob > $|z| = 0.0000$
H0: no autocorrelation of order 2: $z = 1.6661$ Prob > $|z| = 0.0957$

Generalized method of moments estimation

Fitting full model:
Step 1 $f(b) = .06166154$
Step 2 $f(b) = .15560252$

Fitting reduced model 2:
Step 1 $f(b) = 2.617e-18$

Group variable: **mun_id** Number of obs = 1040
Time variable: **year** Number of groups = 81

Moment conditions: linear = 25 Obs per group: min = 10
 nonlinear = 0 avg = 12.83951
 total = 25 max = 13

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_serv_cf	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_serv_cf						
L1.	.5318281	.0771427	6.89	0.000	.3806311	.6830251
L2.	.1319016	.0723821	1.82	0.068	-.0099647	.2737678
elec_t	.0463706	.0672315	0.69	0.490	-.0854008	.178142
Age	.0160441	.0099043	1.62	0.105	-.003368	.0354561
sex						
Male	-.3101463	.1927069	-1.61	0.108	-.6878449	.0675523
k_12centers	-.0007797	.0012162	-0.64	0.521	-.0031635	.001604
gdp	2.58e-08	2.03e-08	1.27	0.204	-1.40e-08	6.57e-08
interest_rate	-.0176148	.0193836	-0.91	0.363	-.055606	.0203763
debt	-.016111	.0078598	-2.05	0.040	-.031516	-.000706
deficit	3.52e-08	9.48e-08	0.37	0.710	-1.51e-07	2.21e-07
party_type						
National	-.6858736	.8200515	-0.84	0.403	-2.293145	.9213979
Provincial	5.933925	8.582577	0.69	0.489	-10.88762	22.75547
win_margin	-.0051196	.0101707	-0.50	0.615	-.0250537	.0148146
abstentionism	.0304019	.0172815	1.76	0.079	-.0034693	.0642731
pop_share014	.0245151	.020855	1.18	0.240	-.0163599	.06539
pop_share65plus	.2191762	.0723356	3.03	0.002	.0774011	.3609513
_cons	-1.352393	2.032398	-0.67	0.506	-5.335821	2.631034

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L2.l_rpc_serv_cf L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
  L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
  L1.abstentionism L1.pop_share014 L1.pop_share65plus

```

```

2, model(level):
  D.L1_rpc_serv_cf D.L2.1_rpc_serv_cf D.elec_t D.Age D.2.sex D.k_12centers
  D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(10)    =    12.6038
                                                         Prob > chi2 =    0.2467

```

```

2-step moment functions, 3-step weighting matrix      chi2(10)    =    16.2082
                                                         Prob > chi2 =    0.0938

```

Arellano-Bond test for autocorrelation of the first-differenced residuals

```

H0: no autocorrelation of order 1:      z =    -4.3805    Prob > |z| =    0.0000
H0: no autocorrelation of order 2:      z =     0.6254    Prob > |z| =    0.5317

```

Generalized method of moments estimation

Fitting full model:

```

Step 1      f(b) = .15317331
Step 2      f(b) = .30843529

```

Fitting reduced model 2:

```

Step 1      f(b) = .08968834

```

```

Group variable: mun_id      Number of obs      =    1040
Time variable:  year       Number of groups   =     81

```

```

Moment conditions:      linear =     39      Obs per group:   min =     10
                        nonlinear =    0      avg =    12.83951
                        total =     39      max =     13

```

(Std. err. adjusted for 81 clusters in mun_id)

l_rpc_serv_cf	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_serv_cf						
L1.	.515073	.0812346	6.34	0.000	.3558562	.6742898
L2.	.0846585	.0582511	1.45	0.146	-.0295115	.1988285
elec_t	.0147858	.049791	0.30	0.766	-.0828027	.1123743
Age	.0114187	.0090521	1.26	0.207	-.006323	.0291605
sex						
Male	-.110933	.1299904	-0.85	0.393	-.3657095	.1438435
k_12centers	-.0010664	.0011052	-0.96	0.335	-.0032325	.0010997
gdp	3.60e-08	1.24e-08	2.90	0.004	1.16e-08	6.03e-08
interest_rate	-.0216948	.0136717	-1.59	0.113	-.0484909	.0051013
debt	-.0136882	.0065334	-2.10	0.036	-.0264934	-.0008831
deficit	1.14e-08	9.45e-08	0.12	0.904	-1.74e-07	1.97e-07
party_type						
National	-1.097797	.7998373	-1.37	0.170	-2.66545	.469855
Provincial	-.2779617	6.23778	-0.04	0.964	-12.50379	11.94786
win_margin	-.0013859	.0095322	-0.15	0.884	-.0200687	.0172969
abstentionism	.0202844	.0183038	1.11	0.268	-.0155904	.0561592
pop_share014	.0277142	.0173936	1.59	0.111	-.0063766	.061805
pop_share65plus	.1254445	.0674872	1.86	0.063	-.006828	.257717
_cons	.3900867	1.302599	0.30	0.765	-2.162961	2.943135

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L2.1_rpc_serv_cf L2.L2.1_rpc_serv_cf L1.Age L2.Age L1.2.sex L2.2.sex
  L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
  L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
  L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
  L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014

```

```

L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
2, model(level):
  D.L1_rpc_serv_cf D.L2.1_rpc_serv_cf D.elec_t D.Age D.2.sex D.k_12centers
  D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(24)      =    24.9833
                                                         Prob > chi2    =    0.4067

2-step moment functions, 3-step weighting matrix      chi2(24)      =    26.5947
                                                         Prob > chi2    =    0.3237

```

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = -4.1063 Prob > |z| = 0.0000
H0: no autocorrelation of order 2: z = 0.9847 Prob > |z| = 0.3248

Generalized method of moments estimation

```

Fitting full model:
Step 1          f(b) =   .16903526
Step 2          f(b) =   .39237155

```

```

Fitting reduced model 2:
Step 1          f(b) =   .28028711

```

```

Group variable: mun_id          Number of obs      =    1040
Time variable: year            Number of groups   =     81

```

```

Moment conditions:      linear =     51      Obs per group:   min =     10
                       nonlinear =     0      avg =    12.83951
                       total =     51      max =     13

```

(Std. err. adjusted for 81 clusters in mun_id)

l_rpc_serv_cf	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_serv_cf						
L1.	.533114	.0541956	9.84	0.000	.4268926	.6393353
L2.	.0736374	.0560275	1.31	0.189	-.0361744	.1834493
elec_t	-.0097848	.0496473	-0.20	0.844	-.1070918	.0875221
Age	.0093293	.0079792	1.17	0.242	-.0063096	.0249682
sex						
Male	-.11351	.1037306	-1.09	0.274	-.3168182	.0897982
k_12centers	-.0013757	.0008596	-1.60	0.110	-.0030606	.0003091
gdp	3.94e-08	1.16e-08	3.39	0.001	1.66e-08	6.22e-08
interest_rate	-.0259427	.0141541	-1.83	0.067	-.0536843	.0017988
debt	-.0164618	.005331	-3.09	0.002	-.0269103	-.0060132
deficit	4.40e-08	7.43e-08	0.59	0.554	-1.02e-07	1.90e-07
party_type						
National	-.8617356	.7678526	-1.12	0.262	-2.366699	.6432278
Provincial	2.161552	5.082275	0.43	0.671	-7.799524	12.12263
win_margin	-.006858	.0073212	-0.94	0.349	-.0212073	.0074912
abstentionism	.0254425	.016594	1.53	0.125	-.0070812	.0579662
pop_share014	.0275258	.0126731	2.17	0.030	.002687	.0523647
pop_share65plus	.1391867	.0525683	2.65	0.008	.0361547	.2422187
_cons	-.0001852	1.334846	-0.00	1.000	-2.616435	2.616064

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L2.1_rpc_serv_cf L2.L2.1_rpc_serv_cf L3.L2.1_rpc_serv_cf L1.Age L2.Age
  L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
  L3.k_12centers L1.gdp L2.gdp L3.gdp L3.interest_rate L1.debt L2.debt
  L3.debt L1.deficit L2.deficit L3.deficit L1.2bn.party_type

```

```

L2.2bn.party_type L3.2bn.party_type L1.3.party_type L2.3.party_type
L3.3.party_type L1.win_margin L2.win_margin L3.win_margin L1.abstentionism
L2.abstentionism L3.abstentionism L1.pop_share014 L2.pop_share014
L3.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus
2, model(level):
D.L1.rpc_serv_cf D.L2.1.rpc_serv_cf D.elec_t D.Age D.2.sex D.k_12centers
D.gdp D.interest_rate D.debt D.deficit
3, model(level):
_cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(36)      =    31.7821
                                                        Prob > chi2    =    0.6695

```

```

2-step moment functions, 3-step weighting matrix      chi2(36)      =    45.3150
                                                        Prob > chi2    =    0.1373

```

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = **-4.7013** Prob > |z| = **0.0000**
H0: no autocorrelation of order 2: z = **1.2923** Prob > |z| = **0.1963**

Generalized method of moments estimation

```

Fitting full model:
Step 1          f(b) =  .18770463
Step 2          f(b) =  .53529525

```

```

Fitting reduced model 2:
Step 1          f(b) =  .38322003

```

```

Group variable: mun_id          Number of obs      =    1040
Time variable: year            Number of groups   =     81

```

```

Moment conditions:      linear =    61      Obs per group:   min =    10
                       nonlinear =    0      avg =   12.83951
                       total =    61      max =    13

```

(Std. err. adjusted for 81 clusters in mun_id)

l_rpc_serv_cf	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_serv_cf						
L1.	.5051192	.053226	9.49	0.000	.4007981	.6094403
L2.	.0447341	.0449493	1.00	0.320	-.0433649	.1328332
elec_t	.0053263	.0488412	0.11	0.913	-.0904006	.1010532
Age	.0074094	.0072985	1.02	0.310	-.0068954	.0217142
sex						
Male	-.0629491	.0915972	-0.69	0.492	-.2424764	.1165781
k_12centers	-.0017923	.0007576	-2.37	0.018	-.0032772	-.0003074
gdp	3.63e-08	1.03e-08	3.52	0.000	1.61e-08	5.66e-08
interest_rate	-.0206039	.014501	-1.42	0.155	-.0490253	.0078175
debt	-.0145767	.0045539	-3.20	0.001	-.0235023	-.0056511
deficit	3.87e-08	6.32e-08	0.61	0.541	-8.52e-08	1.63e-07
party_type						
National	-.7802186	.5596465	-1.39	0.163	-1.877105	.3166683
Provincial	4.158746	4.574228	0.91	0.363	-4.806575	13.12407
win_margin	-.0027298	.0070157	-0.39	0.697	-.0164804	.0110207
abstentionism	.0221342	.014124	1.57	0.117	-.0055484	.0498168
pop_share014	.0233319	.0128978	1.81	0.070	-.0019474	.0486112
pop_share65plus	.1478904	.0482217	3.07	0.002	.0533775	.2424032
_cons	.5266933	1.243507	0.42	0.672	-1.910536	2.963923

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
    L1.L2.1.rpc_serv_cf L2.L2.1.rpc_serv_cf L3.L2.1.rpc_serv_cf

```

```

L4.L2.1_rpc_serv_cf L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex
L4.2.sex L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp
L2.gdp L3.gdp L4.gdp L1.debt L3.debt L4.debt L1.deficit L2.deficit
L3.deficit L4.deficit L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type
L4.2bn.party_type L1.3.party_type L2.3.party_type L3.3.party_type
L4.3.party_type L1.win_margin L2.win_margin L3.win_margin L4.win_margin
L1.abstentionism L2.abstentionism L3.abstentionism L4.abstentionism
L1.pop_share014 L2.pop_share014 L3.pop_share014 L4.pop_share014
L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus L4.pop_share65plus
2, model(level):
  D.L1_rpc_serv_cf D.L2.1_rpc_serv_cf D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(46)      =    43.3589
                                                         Prob > chi2 =    0.5835

2-step moment functions, 3-step weighting matrix      chi2(46)      =    57.4790
                                                         Prob > chi2 =    0.1194

```

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = **-4.7892** Prob > |z| = **0.0000**
H0: no autocorrelation of order 2: z = **1.7414** Prob > |z| = **0.0816**

Generalized method of moments estimation

```

Fitting full model:
Step 1          f(b) = .03648015
Step 2          f(b) = .11040116

```

```

Fitting reduced model 2:
Step 1          f(b) = 6.191e-20

```

```

Group variable: mun_id                Number of obs      =    1122
Time variable: year                  Number of groups    =     81

Moment conditions:      linear =      25      Obs per group:   min =     11
                        nonlinear =    0      avg =   13.85185
                        total =     25      max =     14

```

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_serv_cf	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_serv_cf						
L1.	.5048942	.0859662	5.87	0.000	.3364035	.673385
elec_t						
--.	-.0429207	.1097208	-0.39	0.696	-.2579695	.1721281
L1.	-.175645	.0861852	-2.04	0.042	-.344565	-.0067251
Age	.0034922	.0073534	0.47	0.635	-.0109202	.0179046
sex						
Male	-.1833676	.1821635	-1.01	0.314	-.5404015	.1736663
k_12centers	-.002481	.0016282	-1.52	0.128	-.0056723	.0007104
gdp	4.35e-08	1.27e-08	3.43	0.001	1.87e-08	6.84e-08
interest_rate	-.0512674	.0253682	-2.02	0.043	-.1009881	-.0015467
debt	-.0116001	.0091801	-1.26	0.206	-.0295927	.0063925
deficit	7.31e-08	1.83e-07	0.40	0.690	-2.86e-07	4.33e-07
party_type						
National	.0154804	.3346076	0.05	0.963	-.6403385	.6712993
Provincial	11.52071	10.25106	1.12	0.261	-8.570993	31.61241
win_margin	-.0084998	.0074632	-1.14	0.255	-.0231273	.0061277
abstentionism	.0073548	.0150323	0.49	0.625	-.0221079	.0368176

pop_share014	.041568	.0323108	1.29	0.198	-.02176	.104896
pop_share65plus	.053009	.0960355	0.55	0.581	-.1352172	.2412352
_cons	1.55134	1.062365	1.46	0.144	-.5308568	3.633536

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L1_rpc_serv_cf L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
  L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
  L1.abstentionism L1.pop_share014 L1.pop_share65plus
2, model(level):
  D.L1_rpc_serv_cf D.elec_t D.L.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(10) = 8.9425
 Prob > chi2 = 0.5376

2-step moment functions, 3-step weighting matrix chi2(10) = 16.8534
 Prob > chi2 = 0.0777

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -4.4175 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = 1.8250 Prob > |z| = 0.0680

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .10956789

Step 2 f(b) = .23103912

Fitting reduced model 2:

Step 1 f(b) = .13744625

Group variable: **mun_id** Number of obs = 1122

Time variable: **year** Number of groups = 81

Moment conditions: linear = 39 Obs per group: min = 11
 nonlinear = 0 avg = 13.85185
 total = 39 max = 14

(Std. err. adjusted for 81 clusters in **mun_id**)

	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_serv_cf						
l_rpc_serv_cf						
L1.	.4904885	.0767542	6.39	0.000	.3400532	.6409239
elec_t						
--.	-.0523584	.0721002	-0.73	0.468	-.1936722	.0889554
L1.	-.1435079	.069441	-2.07	0.039	-.2796097	-.0074061
Age	.0012104	.0051874	0.23	0.816	-.0089567	.0113774
sex						
Male	-.0890288	.1166032	-0.76	0.445	-.3175668	.1395093
k_12centers	-.0015549	.0009129	-1.70	0.089	-.0033441	.0002343
gdp	3.92e-08	1.13e-08	3.48	0.001	1.71e-08	6.14e-08
interest_rate	-.0441643	.022986	-1.92	0.055	-.089216	.0008874
debt	-.0142402	.0046096	-3.09	0.002	-.0232748	-.0052056
deficit	1.38e-07	9.98e-08	1.39	0.166	-5.73e-08	3.34e-07
party_type						
National	.1926826	.4507719	0.43	0.669	-.6908141	1.076179
Provincial	5.74196	6.079288	0.94	0.345	-6.173225	17.65715
win_margin	-.0092149	.0082132	-1.12	0.262	-.0253125	.0068826
abstentionism	.0121545	.0125338	0.97	0.332	-.0124113	.0367203

pop_share014	.021566	.0148155	1.46	0.145	-.0074718	.0506039
pop_share65plus	.1016679	.0357356	2.85	0.004	.0316273	.1717084
_cons	1.53108	.7403361	2.07	0.039	.0800475	2.982112

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L1_rpc_serv_cf L2.L1_rpc_serv_cf L1.Age L2.Age L1.2.sex L2.2.sex
  L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
  L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
  L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
  L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
  L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
2, model(level):
  D.L1_rpc_serv_cf D.elec_t D.L.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(24) = 18.7142
 Prob > chi2 = 0.7671

2-step moment functions, 3-step weighting matrix chi2(24) = 29.2548
 Prob > chi2 = 0.2107

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -4.4357 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = 1.7086 Prob > |z| = 0.0875

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .16888046

Step 2 f(b) = .3437423

Fitting reduced model 2:

Step 1 f(b) = .26039344

Group variable: mun_id Number of obs = 1122

Time variable: year Number of groups = 81

Moment conditions: linear = 52 Obs per group: min = 11
 nonlinear = 0 avg = 13.85185
 total = 52 max = 14

(Std. err. adjusted for 81 clusters in mun_id)

l_rpc_serv_cf	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_serv_cf						
L1.	.5957319	.0518844	11.48	0.000	.4940403	.6974236
elec_t						
--.	-.0233497	.0492186	-0.47	0.635	-.1198165	.073117
L1.	-.1613676	.0512972	-3.15	0.002	-.2619083	-.0608269
Age	-.0027916	.005382	-0.52	0.604	-.0133401	.0077569
sex						
Male	.0077719	.1180767	0.07	0.948	-.2236542	.239198
k_12centers	-.001089	.0010229	-1.06	0.287	-.0030939	.0009159
gdp	2.30e-08	9.87e-09	2.33	0.020	3.62e-09	4.23e-08
interest_rate	-.0464594	.017183	-2.70	0.007	-.0801375	-.0127814
debt	-.0123538	.0038995	-3.17	0.002	-.0199967	-.0047109
deficit	9.52e-08	7.55e-08	1.26	0.207	-5.27e-08	2.43e-07
party_type						
National	-.0801804	.4925027	-0.16	0.871	-1.045468	.8851071
Provincial	-.47813	3.832461	-0.12	0.901	-7.989615	7.033355

win_margin	.001799	.0060752	0.30	0.767	-.0101081	.0137061
abstentionism	-.0064271	.0100464	-0.64	0.522	-.0261176	.0132635
pop_share014	.0205914	.0126749	1.62	0.104	-.0042509	.0454338
pop_share65plus	.0869659	.0417261	2.08	0.037	.0051842	.1687476
_cons	2.751427	.8893831	3.09	0.002	1.008268	4.494586

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L1_rpc_serv_cf L2.L1_rpc_serv_cf L3.L1_rpc_serv_cf L1.Age L2.Age
  L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
  L3.k_12centers L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate
  L3.interest_rate L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit
  L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L1.3.party_type
  L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
  L1.abstentionism L2.abstentionism L3.abstentionism L1.pop_share014
  L2.pop_share014 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus
  L3.pop_share65plus
2, model(level):
  D.L1_rpc_serv_cf D.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(37) = 27.8431
 Prob > chi2 = 0.8618

2-step moment functions, 3-step weighting matrix chi2(37) = 44.6376
 Prob > chi2 = 0.1815

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -4.2334 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = 1.5537 Prob > |z| = 0.1203

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .17915295
 Step 2 f(b) = .51773553

Fitting reduced model 2:

Step 1 f(b) = .46945381

Group variable: **mun_id** Number of obs = 1122
 Time variable: **year** Number of groups = 81

Moment conditions: linear = 62 Obs per group: min = 11
 nonlinear = 0 avg = 13.85185
 total = 62 max = 14

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_serv_cf	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_serv_cf						
L1.	.5720442	.0582823	9.82	0.000	.4578129	.6862754
elec_t						
--.	-.0320386	.049139	-0.65	0.514	-.1283492	.064272
L1.	-.1502534	.0552648	-2.72	0.007	-.2585705	-.0419363
Age	.0000568	.0061659	0.01	0.993	-.0120282	.0121418
sex						
Male	.0106845	.114552	0.09	0.926	-.2138333	.2352022
k_12centers	-.0006189	.0008465	-0.73	0.465	-.0022779	.0010402
gdp	2.44e-08	9.47e-09	2.58	0.010	5.83e-09	4.29e-08
interest_rate	-.0357216	.0176947	-2.02	0.044	-.0704026	-.0010407

debt	-.0128278	.0033717	-3.80	0.000	-.0194363	-.0062194
deficit	1.06e-07	7.85e-08	1.36	0.175	-4.74e-08	2.60e-07
party_type						
National	-.0093076	.483521	-0.02	0.985	-.9569915	.9383762
Provincial	.8044223	3.42407	0.23	0.814	-5.906631	7.515475
win_margin	.0025811	.0053573	0.48	0.630	-.0079191	.0130813
abstentionism	-.0043911	.0084476	-0.52	0.603	-.0209481	.0121658
pop_share014	.0180434	.0117846	1.53	0.126	-.0050541	.0411408
pop_share65plus	.1094803	.0339881	3.22	0.001	.0428648	.1760958
_cons	2.342315	.7718916	3.03	0.002	.8294355	3.855195

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L1_rpc serv_cf L2.L1_rpc serv_cf L3.L1_rpc serv_cf L4.L1_rpc serv_cf
 L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex L4.2.sex
 L1.k 12centers L2.k 12centers L3.k 12centers L4.k 12centers L1.gdp L2.gdp
 L3.gdp L4.gdp L2.interest_rate L4.interest_rate L2.debt L3.debt L4.debt
 L1.deficit L2.deficit L3.deficit L4.deficit L1.2bn.party_type
 L2.2bn.party_type L3.2bn.party_type L4.2bn.party_type L1.3.party_type
 L2.3.party_type L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin
 L3.win_margin L4.win_margin L1.abstentionism L2.abstentionism
 L3.abstentionism L4.abstentionism L1.pop_share014 L2.pop_share014
 L3.pop_share014 L4.pop_share014 L1.pop_share65plus L2.pop_share65plus
 L3.pop_share65plus L4.pop_share65plus

2, model(level):

D.L1_rpc serv_cf D.Age D.2.sex D.k 12centers D.gdp D.interest_rate D.debt
 D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(47) = 41.9366
 Prob > chi2 = 0.6818

2-step moment functions, 3-step weighting matrix chi2(47) = 58.4404
 Prob > chi2 = 0.1223

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -4.2670 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = 1.6320 Prob > |z| = 0.1027

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .05486526

Step 2 f(b) = .15522503

Group variable: mun_id Number of obs = 1040

Time variable: year Number of groups = 81

Moment conditions: linear = 26 Obs per group: min = 10
 nonlinear = 0 avg = 12.83951
 total = 26 max = 13

(Std. err. adjusted for 81 clusters in mun_id)

	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_serv_cf						
l_rpc_serv_cf						
L1.	.5451254	.0797846	6.83	0.000	.3887504	.7015004
L2.	.1289481	.0725184	1.78	0.075	-.0131853	.2710815
elec_t						
L1.	-.1251309	.0693622	-1.80	0.071	-.2610782	.0108165
L1.	-.2040978	.0790253	-2.58	0.010	-.3589846	-.0492111
Age	.0165385	.0100047	1.65	0.098	-.0030703	.0361473

sex						
Male	- .3051549	.2034551	-1.50	0.134	-.7039195	.0936098
k_12centers	-.0008471	.0011891	-0.71	0.476	-.0031776	.0014833
gdp	3.02e-08	1.63e-08	1.85	0.065	-1.86e-09	6.22e-08
interest_rate	-.0600088	.0263542	-2.28	0.023	-.1116622	-.0083555
debt	-.0216126	.0074776	-2.89	0.004	-.0362684	-.0069567
deficit	1.94e-07	1.11e-07	1.75	0.080	-2.29e-08	4.11e-07
party_type						
National	- .6872039	.8279364	-0.83	0.407	-2.30993	.9355217
Provincial	5.920444	8.338493	0.71	0.478	-10.4227	22.26359
win_margin	-.0049331	.0096013	-0.51	0.607	-.0237513	.0138851
abstentionism	.0248539	.0170088	1.46	0.144	-.0084827	.0581904
pop_share014	.0141932	.0172623	0.82	0.411	-.0196403	.0480268
pop_share65plus	.2040837	.0672878	3.03	0.002	.0722021	.3359654
_cons	.0235288	1.823509	0.01	0.990	-3.550483	3.597541

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
```

```

L1.L2.1_rpc serv_cf L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
L1.debt_L1_deficit L1.2bn.party_type L1.3.party_type L1.win_margin
L1.abstentionism L1.pop_share014 L1.pop_share65plus

```

```
2, model(level):
```

D.L.1 rpc serv cf D.L2.1 rpc_serv cf D.elec t D.L.elec t D.Age D.2.sex
D.k 12centers D.gdp D.interest rate D.debt D.deficit

```
3, model(level):
```

cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

[illegible][illegible]

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: $z = -4.4211$ Prob > |z| = 0.0000

H0: no autocorrelation of order 2: $z =$ **0.7954** Prob > $|z|$ = **0.4264**

Generalized method of moments estimation

Fitting full model:

Step 1 $f(b) = .11599825$

Step 1	$f(a)$	$f(0) = .00000000$
Step 2	$f(b)$	$f(1) = .28447227$

Fitting reduced model 2:

Step 1 $f(b) = .07246279$

```
Group variable: mun id      Number of obs      =      1040
```

Time variable: **year** Number of groups = 81

Moment conditions:	linear =	40	Obs per group:	min =	10
	nonlinear =	0		avg =	12.83951
	total =	40		max =	13

(Std. err. adjusted for 81 clusters in mun id)

l_rpc_serv_cf	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_serv_cf						
L1.	.5097698	.0714286	7.14	0.000	.3697724	.6497672
L2.	.0654321	.0552987	1.18	0.237	-.0429515	.1738156
elec_t						
--.	-.0832659	.0552955	-1.51	0.132	-.191643	.0251113
L1.	-.1667527	.0710051	-2.35	0.019	-.3059202	-.0275853

Age	.0135275	.0077337	1.75	0.080	-.0016303	.0286854
sex						
Male	-.1137557	.128865	-0.88	0.377	-.3663265	.1388151
k_12centers	-.0008537	.0010674	-0.80	0.424	-.0029457	.0012382
gdp	3.09e-08	1.13e-08	2.73	0.006	8.73e-09	5.30e-08
interest_rate	-.0540371	.018342	-2.95	0.003	-.0899868	-.0180874
debt	-.0161967	.0062494	-2.59	0.010	-.0284452	-.0039481
deficit	1.28e-07	1.02e-07	1.25	0.211	-7.23e-08	3.28e-07
party_type						
National	-.9930747	.7543923	-1.32	0.188	-2.471657	.4855071
Provincial	.705909	5.677289	0.12	0.901	-10.42137	11.83319
win_margin	-.0029034	.008144	-0.36	0.721	-.0188654	.0130586
abstentionism	.0192207	.0160216	1.20	0.230	-.0121811	.0506225
pop_share014	.0150019	.0154457	0.97	0.331	-.0152711	.045275
pop_share65plus	.1522538	.0685845	2.22	0.026	.0178307	.2866768
_cons	1.184459	1.331503	0.89	0.374	-1.425238	3.794156

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L2.1_rpc_serv_cf L2.L2.1_rpc_serv_cf L1.Age L2.Age L1.2.sex L2.2.sex
  L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
  L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
  L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
  L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
  L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
2, model(level):
  D.L.1_rpc_serv_cf D.L2.1_rpc_serv_cf D.elec_t D.L.elec_t D.Age D.2.sex
  D.k_12centers D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

```
2-step moment functions, 2-step weighting matrix      chi2(24)      =    23.0423
                                                         Prob > chi2    =    0.5173
```

```
2-step moment functions, 3-step weighting matrix      chi2(24)      =    27.8297
                                                         Prob > chi2    =    0.2673
```

Arellano-Bond test for autocorrelation of the first-differenced residuals

```
H0: no autocorrelation of order 1:      z =    -4.1906      Prob > |z|    =    0.0000
H0: no autocorrelation of order 2:      z =     1.1786      Prob > |z|    =    0.2386
```

Generalized method of moments estimation

Fitting full model:

```
Step 1      f(b) =    .13112897
Step 2      f(b) =    .37802301
```

Fitting reduced model 2:

```
Step 1      f(b) =    .2091453
```

```
Group variable: mun_id      Number of obs      =    1040
Time variable: year        Number of groups    =     81
```

```
Moment conditions:      linear =     51      Obs per group:      min =     10
                        nonlinear =    0              avg =    12.83951
                        total =     51              max =     13
```

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_serv_cf	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_serv_cf						
l1.	.5392612	.0472671	11.41	0.000	.4466195	.631903
l2.	.0635138	.0549466	1.16	0.248	-.0441795	.1712071
elec_t						
--						
l1.	-.0849142	.0562153	-1.51	0.131	-.1950941	.0252658
	-.155633	.0622078	-2.50	0.012	-.2775581	-.033708
Age	.0102161	.007009	1.46	0.145	-.0035213	.0239535
sex						
Male	-.1384649	.10914	-1.27	0.205	-.3523754	.0754455
k_12centers	-.0004781	.0009368	-0.51	0.610	-.0023143	.001358
gdp	3.20e-08	1.12e-08	2.86	0.004	1.00e-08	5.39e-08
interest_rate	-.0536591	.0166539	-3.22	0.001	-.0863001	-.021018
debt	-.0206316	.0055468	-3.72	0.000	-.0315032	-.0097601
deficit	1.85e-07	9.77e-08	1.90	0.058	-6.18e-09	3.77e-07
party_type						
National	-.8511142	.6269437	-1.36	0.175	-2.079901	.3776729
Provincial	1.702024	4.52992	0.38	0.707	-7.176456	10.5805
win_margin	-.0062339	.0066338	-0.94	0.347	-.0192358	.0067681
abstentionism	.0221255	.0143805	1.54	0.124	-.0060597	.0503107
pop_share014	.0139508	.013201	1.06	0.291	-.0119227	.0398243
pop_share65plus	.1950759	.049904	3.91	0.000	.0972658	.292886
_cons	.848132	1.249165	0.68	0.497	-1.600187	3.296451

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
```

```
L1.L2.1_rpc_serv_cf L2.L2.1_rpc_serv_cf L3.L2.1_rpc_serv_cf L1.Age L2.Age
L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
L3.k_12centers L1.gdp L2.gdp L3.gdp L3.interest_rate L1.debt L2.debt
L3.debt L1.deficit L2.deficit L3.deficit L1.2bn.party_type
L2.2bn.party_type L3.2bn.party_type L1.3.party_type L2.3.party_type
L3.3.party_type L1.win_margin L2.win_margin L3.win_margin L1.abstentionism
L2.abstentionism L3.abstentionism L1.pop_share014 L2.pop_share014
L3.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus
```

```
2, model(level):
```

D.L1_rpc_serv_cf D.L2.1_rpc_serv_cf D.elec_t D.Age D.2.sex D.k_12centers
D.gdp D.interest_rate D.debt D.deficit

```
3, model(level):
```

cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

[illegible][illegible]

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: $z = -4.6954$ Prob > $|z|$ = 0.0000

H0: no autocorrelation of order 2: $z =$ **1.2900** Prob $> |z| =$ **0.1971**

Generalized method of moments estimation

Fitting full model:

Step 1 $f(b) = .14958331$

Step 2 $f(b) = .52396008$

Fitting reduced model 2:

Step 1 $f(b) = .30448661$

Group variable: **mun_id** Number of obs = **1040**
 Time variable: **year** Number of groups = **81**

Moment conditions: linear = **61** Obs per group: min = **10**
 nonlinear = **0** avg = **12.83951**
 total = **61** max = **13**

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_serv_cf	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_serv_cf						
L1.	.5248736	.0489455	10.72	0.000	.4289421	.6208051
L2.	.0416945	.04407	0.95	0.344	-.0446811	.12807
elec_t						
--.	-.0672688	.0510988	-1.32	0.188	-.1674207	.032883
L1.	-.1683377	.06019	-2.80	0.005	-.2863079	-.0503675
Age	.009755	.0062456	1.56	0.118	-.0024862	.0219961
sex						
Male	-.0759813	.1043992	-0.73	0.467	-.2806	.1286373
k_12centers	-.0009989	.0009127	-1.09	0.274	-.0027877	.00079
gdp	2.70e-08	9.92e-09	2.72	0.007	7.52e-09	4.64e-08
interest_rate	-.0517676	.017191	-3.01	0.003	-.0854614	-.0180739
debt	-.0176895	.0043507	-4.07	0.000	-.0262167	-.0091623
deficit	1.61e-07	7.77e-08	2.07	0.039	8.27e-09	3.13e-07
party_type						
National	-.5886653	.4339811	-1.36	0.175	-1.439253	.2619219
Provincial	3.392162	4.1799	0.81	0.417	-4.800292	11.58462
win_margin	-.0017192	.00623	-0.28	0.783	-.0139298	.0104914
abstentionism	.0191198	.012583	1.52	0.129	-.0055423	.043782
pop_share014	.0115495	.0144737	0.80	0.425	-.0168184	.0399174
pop_share65plus	.1900477	.0497575	3.82	0.000	.0925247	.2875706
_cons	1.041348	1.046247	1.00	0.320	-1.009259	3.091956

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L2.1_rpc_serv_cf L2.L2.1_rpc_serv_cf L3.L2.1_rpc_serv_cf
  L4.L2.1_rpc_serv_cf L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex
  L4.2.sex L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp
  L2.gdp L3.gdp L4.gdp L1.debt L3.debt L4.debt L1.deficit L2.deficit
  L3.deficit L4.deficit L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type
  L4.2bn.party_type L1.3.party_type L2.3.party_type L3.3.party_type
  L4.3.party_type L1.win_margin L2.win_margin L3.win_margin L4.win_margin
  L1.abstentionism L2.abstentionism L3.abstentionism L4.abstentionism
  L1.pop_share014 L2.pop_share014 L3.pop_share014 L4.pop_share014
  L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus L4.pop_share65plus
2, model(level):
  D.L1_rpc_serv_cf D.L2.1_rpc_serv_cf D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions
 H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(45) = **42.4408**
 Prob > chi2 = **0.5810**

2-step moment functions, 3-step weighting matrix chi2(45) = **57.8293**
 Prob > chi2 = **0.0950**

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-4.8730** Prob > |z| = **0.0000**
 H0: no autocorrelation of order 2: z = **1.6952** Prob > |z| = **0.0900**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .14592551

Step 2 f(b) = .17319329

Fitting reduced model 2:

Step 1 f(b) = 1.405e-20

Group variable: **mun_id** Number of obs = 1092Time variable: **year** Number of groups = 81

Moment conditions:	linear =	24	Obs per group:	min =	5
	nonlinear =	0		avg =	13.48148
	total =	24		max =	14

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_cap_prot	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_prot						
L1.	.1646469	.0824419	2.00	0.046	.0030637	.3262301
elec_t	.3255516	.0997188	3.26	0.001	.1301064	.5209967
Age	.0137348	.0137542	1.00	0.318	-.0132228	.0406925
sex						
Male	.3340404	.2411345	1.39	0.166	-.1385747	.8066554
k_12centers	.002638	.0031578	0.84	0.404	-.0035513	.0088272
gdp	5.82e-08	2.11e-08	2.76	0.006	1.69e-08	9.95e-08
interest_rate	.069461	.0258875	2.68	0.007	.0187226	.1201995
debt	-.0396833	.0125251	-3.17	0.002	-.064232	-.0151346
deficit	-1.46e-07	2.12e-07	-0.69	0.490	-5.62e-07	2.69e-07
party_type						
National	-.6203679	.7947163	-0.78	0.435	-2.177983	.9372474
Provincial	-24.04556	21.4098	-1.12	0.261	-66.008	17.91689
win_margin	.0308497	.019166	1.61	0.107	-.0067149	.0684142
abstentionism	-.052054	.0357026	-1.46	0.145	-.1220298	.0179219
pop_share014	.044736	.042038	1.06	0.287	-.0376569	.1271289
pop_share65plus	.0504693	.1937106	0.26	0.794	-.3291965	.430135
_cons	5.778655	2.449238	2.36	0.018	.9782377	10.57907

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L1_rpc_cap_prot L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
 L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
 L1.abstentionism L1.pop_share014 L1.pop_share65plus

2, model(level):

D.L1_rpc_cap_prot D.elec_t D.Age D.2.sex D.k_12centers D.gdp
 D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix	chi2(10)	=	14.0287
	Prob > chi2	=	0.1717

2-step moment functions, 3-step weighting matrix	chi2(10)	=	25.2754
	Prob > chi2	=	0.0048

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -3.0221 Prob > |z| = 0.0025

H0: no autocorrelation of order 2: z = 1.0503 Prob > |z| = 0.2936

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .38350589

Step 2 f(b) = .41588362

Fitting reduced model 2:

Step 1 f(b) = .28675953

Group variable: **mun_id**

Number of obs = 1092

Time variable: **year**

Number of groups = 81

Moment conditions: linear = 38

Obs per group: min = 5

nonlinear = 0

avg = 13.48148

total = 38

max = 14

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_cap_prot	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_prot						
L1.	.2100649	.1024962	2.05	0.040	.009176	.4109539
elec_t	.3908128	.0855452	4.57	0.000	.2231472	.5584783
Age	.0017045	.0163179	0.10	0.917	-.0302779	.033687
sex						
Male	.3274191	.2930544	1.12	0.264	-.246957	.9017952
k_12centers	.0004543	.0033955	0.13	0.894	-.0062007	.0071093
gdp	9.31e-08	2.34e-08	3.98	0.000	4.72e-08	1.39e-07
interest_rate	.0108737	.0280682	0.39	0.698	-.0441389	.0658862
debt	-.0277159	.0100819	-2.75	0.006	-.0474761	-.0079557
deficit	-5.04e-07	1.40e-07	-3.61	0.000	-7.78e-07	-2.30e-07
party_type						
National	-.0950144	1.251833	-0.08	0.939	-2.548561	2.358533
Provincial	-21.96491	20.31771	-1.08	0.280	-61.78689	17.85707
win_margin	.044593	.020714	2.15	0.031	.0039943	.0851918
abstentionism	-.1048677	.0378576	-2.77	0.006	-.1790672	-.0306682
pop_share014	.1149889	.0476028	2.42	0.016	.0216891	.2082887
pop_share65plus	-.3814782	.1539279	-2.48	0.013	-.6831713	-.0797851
_cons	8.977715	2.286046	3.93	0.000	4.497148	13.45828

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L1_rpc_cap_prot L2.L1_rpc_cap_prot L1.Age L2.Age L1.2.sex L2.2.sex
 L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
 L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
 L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
 L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
 L2.pop_share014 L1.pop_share65plus L2.pop_share65plus

2, model(level):

D.L1_rpc_cap_prot D.elec_t D.Age D.2.sex D.k_12centers D.gdp
 D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(24) = 33.6866
 Prob > chi2 = 0.0904

2-step moment functions, 3-step weighting matrix chi2(24) = 44.7675
 Prob > chi2 = 0.0062

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -2.9945 Prob > |z| = 0.0027

H0: no autocorrelation of order 2: z = 1.5559 Prob > |z| = 0.1197

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .58395955

Step 2 f(b) = .66559633

Fitting reduced model 2:

Step 1 f(b) = .53621678

Group variable: **mun_id**

Number of obs = 1092

Time variable: **year**

Number of groups = 81

Moment conditions: linear = 52

Obs per group: min = 5

nonlinear = 0

avg = 13.48148

total = 52

max = 14

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_cap_prot	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_prot						
L1.	.3468532	.0973679	3.56	0.000	.1560157	.5376908
elec_t	.3997267	.0883149	4.53	0.000	.2266326	.5728207
Age	-.0123966	.0158326	-0.78	0.434	-.0434278	.0186346
sex						
Male	.3668461	.2928352	1.25	0.210	-.2071004	.9407925
k_12centers	-.0005301	.0033716	-0.16	0.875	-.0071383	.0060782
gdp	6.88e-08	2.12e-08	3.24	0.001	2.71e-08	1.10e-07
interest_rate	.0156115	.0247826	0.63	0.529	-.0329616	.0641845
debt	-.0283142	.0085439	-3.31	0.001	-.0450598	-.0115685
deficit	-4.47e-07	1.08e-07	-4.14	0.000	-6.58e-07	-2.36e-07
party_type						
National	-.558704	1.489584	-0.38	0.708	-3.478235	2.360827
Provincial	-11.18192	14.4071	-0.78	0.438	-39.41931	17.05548
win_margin	.0454971	.0192313	2.37	0.018	.0078044	.0831898
abstentionism	-.1004934	.0313258	-3.21	0.001	-.1618909	-.0390959
pop_share014	.0941252	.0406874	2.31	0.021	.0143795	.173871
pop_share65plus	-.2802732	.1241475	-2.26	0.024	-.5235977	-.0369486
_cons	9.613928	2.023196	4.75	0.000	5.648536	13.57932

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L1_rpc_cap_prot L2.L1_rpc_cap_prot L3.L1_rpc_cap_prot L1.Age L2.Age
 L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
 L3.k_12centers L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate
 L3.interest_rate L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit
 L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L1.3.party_type
 L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
 L1.abstentionism L2.abstentionism L3.abstentionism L1.pop_share014
 L2.pop_share014 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus
 L3.pop_share65plus

2, model(level):

D.L1_rpc_cap_prot D.elec_t D.Age D.2.sex D.k_12centers D.gdp
 D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(38) = 53.9133
 Prob > chi2 = 0.0452

2-step moment functions, 3-step weighting matrix chi2(38) = 60.1174
 Prob > chi2 = 0.0126

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-3.6964** Prob > |z| = **0.0002**
H0: no autocorrelation of order 2: z = **1.9715** Prob > |z| = **0.0487**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.67641193**
Step 2 f(b) = **.75995182**

Fitting reduced model 2:

Step 1 f(b) = **.6680448**

Group variable: **mun_id** Number of obs = **1092**
Time variable: **year** Number of groups = **81**

Moment conditions: linear = **63** Obs per group: min = **5**
nonlinear = **0** avg = **13.48148**
total = **63** max = **14**

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_cap_prot	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_prot						
L1.	.3277465	.088573	3.70	0.000	.1541467	.5013463
elec_t	.3539144	.0839368	4.22	0.000	.1894013	.5184275
Age	-.0054722	.0132813	-0.41	0.680	-.0315031	.0205587
sex						
Male	.324072	.2648624	1.22	0.221	-.1950488	.8431928
k_12centers	-.0005902	.0028648	-0.21	0.837	-.0062051	.0050247
gdp	7.77e-08	2.14e-08	3.64	0.000	3.58e-08	1.20e-07
interest_rate	.0149245	.0246935	0.60	0.546	-.033474	.0633229
debt	-.0304724	.0074232	-4.10	0.000	-.0450216	-.0159231
deficit	-4.00e-07	1.11e-07	-3.61	0.000	-6.17e-07	-1.83e-07
party_type						
National	-.6938291	1.051269	-0.66	0.509	-2.754278	1.36662
Provincial	-10.76149	13.91205	-0.77	0.439	-38.0286	16.50563
win_margin	.0482603	.0144911	3.33	0.001	.0198583	.0766623
abstentionism	-.0862338	.0318871	-2.70	0.007	-.1487313	-.0237363
pop_share014	.0949896	.0396989	2.39	0.017	.0171811	.1727981
pop_share65plus	-.2675093	.119652	-2.24	0.025	-.5020229	-.0329956
_cons	8.541657	1.919637	4.45	0.000	4.779237	12.30408

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L1_rpc_cap_prot L2.L1_rpc_cap_prot L3.L1_rpc_cap_prot
L4.L1_rpc_cap_prot L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex
L4.2.sex L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp
L2.gdp L3.gdp L4.gdp L2.interest_rate L1.debt L2.debt L3.debt L4.debt
L1.deficit L2.deficit L3.deficit L4.deficit L1.2bn.party_type
L2.2bn.party_type L3.2bn.party_type L4.2bn.party_type L1.3.party_type
L2.3.party_type L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin
L3.win_margin L4.win_margin L1.abstentionism L2.abstentionism
L3.abstentionism L4.abstentionism L1.pop_share014 L2.pop_share014
L3.pop_share014 L4.pop_share014 L1.pop_share65plus L2.pop_share65plus
L3.pop_share65plus L4.pop_share65plus

2, model(level):

D.L1_rpc_cap_prot D.elec_t D.Age D.2.sex D.k_12centers D.gdp
D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix $\chi^2(49) = 61.5561$
 Prob > $\chi^2 = 0.1075$

2-step moment functions, 3-step weighting matrix $\chi^2(49) = 71.5289$
 Prob > $\chi^2 = 0.0195$

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: $z = -3.6596$ Prob > $|z| = 0.0003$
 H0: no autocorrelation of order 2: $z = 1.8155$ Prob > $|z| = 0.0695$

Generalized method of moments estimation

Fitting full model:

Step 1 $f(b) = .03770997$

Step 2 $f(b) = .04455706$

Fitting reduced model 2:

Step 1 $f(b) = 3.264e-23$

Group variable: **mun_id** Number of obs = 1007
 Time variable: **year** Number of groups = 81

Moment conditions: linear = 25 Obs per group: min = 3
 nonlinear = 0 avg = 12.4321
 total = 25 max = 13

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_cap_prot	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_prot						
L1.	.546525	.1242862	4.40	0.000	.3029286	.7901214
L2.	.2938107	.061837	4.75	0.000	.1726124	.415009
elec_t	.3665737	.0634392	5.78	0.000	.2422352	.4909122
Age	-.0074471	.0148559	-0.50	0.616	-.0365641	.0216699
sex						
Male	.8658111	.2599286	3.33	0.001	.3563605	1.375262
k_12centers	-.0068576	.0032596	-2.10	0.035	-.0132462	-.0004689
gdp	1.39e-07	3.23e-08	4.31	0.000	7.58e-08	2.03e-07
interest_rate	-.0070036	.0310948	-0.23	0.822	-.0679483	.0539411
debt	-.0603301	.0090441	-6.67	0.000	-.0780563	-.0426039
deficit	-4.48e-07	1.35e-07	-3.32	0.001	-7.12e-07	-1.83e-07
party_type						
National	.1036674	1.029061	0.10	0.920	-1.913256	2.120591
Provincial	12.44792	12.5997	0.99	0.323	-12.24705	37.14289
win_margin	.0273128	.0128352	2.13	0.033	.0021563	.0524694
abstentionism	-.0605188	.0266919	-2.27	0.023	-.112834	-.0082036
pop_share014	.1662517	.0459102	3.62	0.000	.0762695	.256234
pop_share65plus	-.3681088	.1800231	-2.04	0.041	-.7209475	-.01527
_cons	2.467478	2.368943	1.04	0.298	-2.175565	7.110522

Instruments corresponding to the linear moment conditions:

1, model(diff):

 L1.L2.l_rpc_cap_prot L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
 L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
 L1.abstentionism L1.pop_share014 L1.pop_share65plus

2, model(level):

 D.L1_rpc_cap_prot D.L2.l_rpc_cap_prot D.elec_t D.Age D.2.sex D.k_12centers
 D.gdp D.interest_rate D.debt D.deficit

3, model(level):

 _cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix $\chi^2(10) = 3.6091$
 Prob > $\chi^2 = 0.9633$

2-step moment functions, 3-step weighting matrix $\chi^2(10) = 9.2296$
 Prob > $\chi^2 = 0.5105$

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: $z = -3.0927$ Prob > $|z| = 0.0020$
 H0: no autocorrelation of order 2: $z = -1.1065$ Prob > $|z| = 0.2685$

Generalized method of moments estimation

Fitting full model:

Step 1 $f(b) = .15533666$
 Step 2 $f(b) = .32209237$

Fitting reduced model 2:

Step 1 $f(b) = .20723318$

Group variable: **mun_id** Number of obs = 1007
 Time variable: **year** Number of groups = 81

Moment conditions: linear = 39 Obs per group: min = 3
 nonlinear = 0 avg = 12.4321
 total = 39 max = 13

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_cap_prot	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_prot						
L1.	.5439083	.1395163	3.90	0.000	.2704612	.8173553
L2.	.2498276	.0742718	3.36	0.001	.1042576	.3953977
elec_t	.3245961	.0835843	3.88	0.000	.1607739	.4884183
Age	-.0065301	.0140529	-0.46	0.642	-.0340732	.0210131
sex						
Male	.605758	.2769703	2.19	0.029	.0629063	1.14861
k_12centers	-.0042332	.0028068	-1.51	0.132	-.0097345	.0012681
gdp	1.44e-07	2.22e-08	6.49	0.000	1.00e-07	1.87e-07
interest_rate	-.0019031	.0237275	-0.08	0.936	-.0484082	.044602
debt	-.0579737	.01052	-5.51	0.000	-.0785925	-.037355
deficit	-4.54e-07	1.44e-07	-3.17	0.002	-7.36e-07	-1.73e-07
party_type						
National	.0213202	1.069183	0.02	0.984	-2.074241	2.116881
Provincial	3.8701	13.61306	0.28	0.776	-22.81102	30.55122
win_margin	.0406637	.0127767	3.18	0.001	.0156217	.0657056
abstentionism	-.0591633	.0288088	-2.05	0.040	-.1156274	-.0026991
pop_share014	.1508867	.0419453	3.60	0.000	.0686753	.233098
pop_share65plus	-.3536277	.1555221	-2.27	0.023	-.6584455	-.0488099
_cons	2.552642	2.256708	1.13	0.258	-1.870424	6.975707

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.l_rpc_cap_prot L2.L2.l_rpc_cap_prot L1.Age L2.Age L1.2.sex L2.2.sex
 L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
 L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
 L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
 L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
 L2.pop_share014 L1.pop_share65plus L2.pop_share65plus

2, model(level):

D.L.l_rpc_cap_prot D.L2.l_rpc_cap_prot D.elec_t D.Age D.2.sex D.k_12centers
 D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(24) = 26.0895
Prob > chi2 = 0.3486

2-step moment functions, 3-step weighting matrix chi2(24) = 28.5254
Prob > chi2 = 0.2385

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -3.1843 Prob > |z| = 0.0015
H0: no autocorrelation of order 2: z = -0.5720 Prob > |z| = 0.5673

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .42620193
Step 2 f(b) = .61870564

Fitting reduced model 2:

Step 1 f(b) = .47491401

Group variable: **mun_id** Number of obs = 1007
Time variable: **year** Number of groups = 81

Moment conditions: linear = 53 Obs per group: min = 3
 nonlinear = 0 avg = 12.4321
 total = 53 max = 13

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_cap_prot	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_prot						
L1.	.5085973	.1316412	3.86	0.000	.2505853	.7666093
L2.	.1974817	.095461	2.07	0.039	.0103815	.3845819
elec_t	.2562787	.0861647	2.97	0.003	.087399	.4251584
Age	.0007589	.0141089	0.05	0.957	-.0268939	.0284118
sex						
Male	.3789169	.2755199	1.38	0.169	-.1610921	.9189259
k_12centers	-.0015303	.0020204	-0.76	0.449	-.0054902	.0024297
gdp	1.34e-07	2.75e-08	4.88	0.000	8.04e-08	1.88e-07
interest_rate	.0180203	.0238785	0.75	0.450	-.0287806	.0648212
debt	-.0686438	.011561	-5.94	0.000	-.0913029	-.0459846
deficit	-3.48e-07	1.44e-07	-2.42	0.015	-6.30e-07	-6.64e-08
party_type						
National	-.8681856	1.189503	-0.73	0.465	-3.199568	1.463197
Provincial	1.858041	9.944277	0.19	0.852	-17.63238	21.34847
win_margin	.0288752	.0151827	1.90	0.057	-.0008822	.0586327
abstentionism	-.0469613	.0252962	-1.86	0.063	-.096541	.0026183
pop_share014	.1042729	.0415976	2.51	0.012	.0227431	.1858027
pop_share65plus	-.141653	.1251833	-1.13	0.258	-.3870078	.1037018
_cons	3.298485	2.451002	1.35	0.178	-1.50539	8.10236

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.1_rpc_cap_prot L2.L2.1_rpc_cap_prot L3.L2.1_rpc_cap_prot L1.Age
L2.Age L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
L3.k_12centers L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate
L3.interest_rate L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit
L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L1.3.party_type
L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
L1.abstentionism L2.abstentionism L3.abstentionism L1.pop_share014
L2.pop_share014 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus
L3.pop_share65plus

2, model(level):

D.L.1_rpc_cap_prot D.L2.1_rpc_cap_prot D.elec_t D.Age D.2.sex D.k_12centers

```

D.gdp D.interest_rate D.debt D.deficit
3, model(level):
    _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(38)    =    50.1152
                                                         Prob > chi2 =    0.0902

```

```

2-step moment functions, 3-step weighting matrix      chi2(38)    =    57.7208
                                                         Prob > chi2 =    0.0211

```

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = **-3.6706** Prob > |z| = **0.0002**
H0: no autocorrelation of order 2: z = **-0.2798** Prob > |z| = **0.7796**

Generalized method of moments estimation

```

Fitting full model:
Step 1          f(b) = .48476156
Step 2          f(b) = .69192921

```

```

Fitting reduced model 2:
Step 1          f(b) = .56242401

```

```

Group variable: mun_id                Number of obs      =    1007
Time variable: year                  Number of groups   =     81

Moment conditions:      linear =      63      Obs per group:   min =      3
                      nonlinear =    0          avg =    12.4321
                      total =     63          max =     13

```

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_cap_prot	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_prot						
L1.	.4738516	.1216489	3.90	0.000	.2354243	.712279
L2.	.177504	.0994541	1.78	0.074	-.0174224	.3724303
elec_t	.255872	.0848684	3.01	0.003	.089533	.4222111
Age	.002024	.0115667	0.17	0.861	-.0206464	.0246943
sex						
Male	.2945189	.2757055	1.07	0.285	-.245854	.8348919
k_12centers	-.0019287	.0019527	-0.99	0.323	-.005756	.0018986
gdp	1.34e-07	2.59e-08	5.18	0.000	8.32e-08	1.85e-07
interest_rate	.0168414	.0239982	0.70	0.483	-.0301942	.0638771
debt	-.0684023	.0106044	-6.45	0.000	-.0891865	-.0476181
deficit	-3.48e-07	1.37e-07	-2.54	0.011	-6.16e-07	-7.95e-08
party_type						
National	-1.089793	.9904458	-1.10	0.271	-3.031031	.851445
Provincial	-3.020263	7.659902	-0.39	0.693	-18.03339	11.99287
win_margin	.0297674	.0107623	2.77	0.006	.0086737	.0508611
abstentionism	-.0546758	.0244116	-2.24	0.025	-.1025216	-.00683
pop_share014	.1038385	.0442208	2.35	0.019	.0171674	.1905097
pop_share65plus	-.1426078	.1079752	-1.32	0.187	-.3542353	.0690197
_cons	4.388871	2.620932	1.67	0.094	-.7480621	9.525804

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
L1.L2.l_rpc_cap_prot L2.L2.l_rpc_cap_prot L3.L2.l_rpc_cap_prot
L4.L2.l_rpc_cap_prot L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex
L4.2.sex L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp
L2.gdp L3.gdp L4.gdp L2.interest_rate L2.debt L3.debt L4.debt L1.deficit
L2.deficit L3.deficit L4.deficit L1.2bn.party_type L2.2bn.party_type
L3.2bn.party_type L4.2bn.party_type L1.3.party_type L2.3.party_type
L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin L3.win_margin

```



```

L4.win_margin L1.abstentionism L2.abstentionism L3.abstentionism
L4.abstentionism L1.pop_share014 L2.pop_share014 L3.pop_share014
L4.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus
L4.pop_share65plus
2, model(level):
D.L1.rpc_cap_prot D.L2.rpc_cap_prot D.elec_t D.Age D.2.sex D.k_12centers
D.gdp D.interest_rate D.debt D.deficit
3, model(level):
_cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(48)    =    56.0463
                                                        Prob > chi2 =    0.1986

```

```

2-step moment functions, 3-step weighting matrix      chi2(48)    =    64.2747
                                                        Prob > chi2 =    0.0582

```

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = -3.7011 Prob > |z| = 0.0002
H0: no autocorrelation of order 2: z = -0.0809 Prob > |z| = 0.9355

Generalized method of moments estimation

```

Fitting full model:
Step 1          f(b) =    .14152594
Step 2          f(b) =    .17227874

```

```

Fitting reduced model 2:
Step 1          f(b) =    2.682e-21

```

```

Group variable: mun_id          Number of obs      =    1092
Time variable: year            Number of groups   =     81

```

```

Moment conditions:      linear =    25      Obs per group:   min =     5
                       nonlinear =    0      avg =   13.48148
                       total =    25      max =    14

```

(Std. err. adjusted for 81 clusters in mun_id)

	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_prot						
l_rpc_cap_prot						
L1.	.1724032	.0806703	2.14	0.033	.0142924	.330514
elec_t						
--	.1672672	.2531512	0.66	0.509	-.3289	.6634344
L1.	-.1613798	.2064896	-0.78	0.434	-.5660919	.2433323
Age	.01583	.0138067	1.15	0.252	-.0112306	.0428906
sex						
Male	.2976805	.2429567	1.23	0.220	-.1785059	.7738669
k_12centers	.0030003	.0031645	0.95	0.343	-.0032019	.0092026
gdp	6.29e-08	1.91e-08	3.30	0.001	2.55e-08	1.00e-07
interest_rate	.0321371	.0541355	0.59	0.553	-.0739665	.1382407
debt	-.0476023	.0187882	-2.53	0.011	-.0844265	-.0107781
deficit	2.96e-08	3.68e-07	0.08	0.936	-6.92e-07	7.51e-07
party_type						
National	-.7273588	.7482356	-0.97	0.331	-2.193874	.7391561
Provincial	-24.66867	21.51958	-1.15	0.252	-66.84627	17.50893
win_margin	.0294212	.0198641	1.48	0.139	-.0095117	.068354
abstentionism	-.047044	.0348437	-1.35	0.177	-.1153363	.0212484
pop_share014	.0311004	.0509073	0.61	0.541	-.0686761	.1308769
pop_share65plus	.0956922	.1968457	0.49	0.627	-.2901184	.4815027
_cons	6.263217	2.346611	2.67	0.008	1.663944	10.86249

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L1_rpc_cap_prot L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
  L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
  L1.abstentionism L1.pop_share014 L1.pop_share65plus
2, model(level):
  D.L1_rpc_cap_prot D.elec_t D.L.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(10)    =    13.9546
                                                         Prob > chi2 =    0.1751

```

```

2-step moment functions, 3-step weighting matrix      chi2(10)    =    27.3324
                                                         Prob > chi2 =    0.0023

```

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = -3.1377 Prob > |z| = 0.0017
H0: no autocorrelation of order 2: z = 1.1916 Prob > |z| = 0.2334

Generalized method of moments estimation

Fitting full model:
Step 1 f(b) = .41385739
Step 2 f(b) = .47188263

Fitting reduced model 2:
Step 1 f(b) = .27838596

```

Group variable: mun_id      Number of obs      =    1092
Time variable: year        Number of groups   =     81

```

```

Moment conditions:      linear =     39      Obs per group:      min =     5
                        nonlinear =    0                      avg =   13.48148
                        total =    39                      max =    14

```

(Std. err. adjusted for 81 clusters in mun_id)

l_rpc_cap_prot	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_prot						
L1.	.2594741	.1073126	2.42	0.016	.0491452	.469803
elec_t						
--	.4013157	.1608508	2.49	0.013	.086054	.7165774
L1.	-.0160858	.138444	-0.12	0.908	-.2874311	.2552595
Age	.0014193	.0142538	0.10	0.921	-.0265176	.0293562
sex						
Male	.3194306	.2580921	1.24	0.216	-.1864206	.8252819
k_12centers	.0015752	.0033825	0.47	0.641	-.0050544	.0082047
gdp	7.48e-08	2.39e-08	3.14	0.002	2.81e-08	1.22e-07
interest_rate	.0039554	.0459892	0.09	0.931	-.0861819	.0940927
debt	-.033046	.0123769	-2.67	0.008	-.0573042	-.0087878
deficit	-4.11e-07	2.05e-07	-2.00	0.045	-8.13e-07	-9.11e-09
party_type						
National	-.6510617	1.080158	-0.60	0.547	-2.768132	1.466008
Provincial	-16.02214	18.88711	-0.85	0.396	-53.0402	20.99592
win_margin	.0452882	.0193755	2.34	0.019	.0073129	.0832635
abstentionism	-.0825671	.0380389	-2.17	0.030	-.1571219	-.0080123
pop_share014	.0746518	.0493944	1.51	0.131	-.0221595	.171463
pop_share65plus	-.2355328	.1634642	-1.44	0.150	-.5559167	.0848512
_cons	8.52184	2.171816	3.92	0.000	4.265159	12.77852

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L1.rpc_cap_prot L2.L1.rpc_cap_prot L1.Age L2.Age L1.2.sex L2.2.sex
  L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
  L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
  L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
  L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
  L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
2, model(level):
  D.L1.rpc_cap_prot D.elec_t D.L.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(24)      =    38.2225
                                                         Prob > chi2    =    0.0329

```

```

2-step moment functions, 3-step weighting matrix      chi2(24)      =    43.2379
                                                         Prob > chi2    =    0.0093

```

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-3.1654** Prob > |z| = **0.0015**

H0: no autocorrelation of order 2: z = **1.6227** Prob > |z| = **0.1047**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.59195673**

Step 2 f(b) = **.65756298**

Fitting reduced model 2:

Step 1 f(b) = **.5348851**

Group variable: **mun_id**

Number of obs = **1092**

Time variable: **year**

Number of groups = **81**

```

Moment conditions:   linear =    53      Obs per group:   min =    5
                    nonlinear =    0                      avg =   13.48148
                    total =    53                      max =    14

```

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_cap_prot	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_prot						
L1.	.3823025	.0946933	4.04	0.000	.196707	.567898
elec_t						
--.	.25396	.1441215	1.76	0.078	-.028513	.5364329
L1.	-.1994446	.1437903	-1.39	0.165	-.4812684	.0823792
Age	-.0051612	.0136925	-0.38	0.706	-.0319979	.0216755
sex						
Male	.3093771	.2443953	1.27	0.206	-.1696289	.788383
k_12centers	-.0001007	.0027323	-0.04	0.971	-.0054559	.0052546
gdp	6.17e-08	2.08e-08	2.97	0.003	2.10e-08	1.02e-07
interest_rate	-.0214743	.0357234	-0.60	0.548	-.0914909	.0485423
debt	-.0369214	.0108316	-3.41	0.001	-.0581509	-.015692
deficit	-2.63e-07	1.64e-07	-1.61	0.108	-5.84e-07	5.78e-08
party_type						
National	-.7574288	1.049054	-0.72	0.470	-2.813538	1.29868
Provincial	-7.731041	11.95942	-0.65	0.518	-31.17107	15.70898
win_margin	.0389289	.0168325	2.31	0.021	.0059377	.07192
abstentionism	-.0801603	.0251604	-3.19	0.001	-.1294738	-.0308468
pop_share014	.0625888	.0421276	1.49	0.137	-.0199797	.1451573
pop_share65plus	-.1566786	.1412315	-1.11	0.267	-.4334872	.12013

_cons	9.059172	1.779769	5.09	0.000	5.57089	12.54746
--------------	-----------------	-----------------	-------------	--------------	----------------	-----------------

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L1.rpc_cap_prot L2.L1.rpc_cap_prot L3.L1.rpc_cap_prot L1.Age L2.Age
  L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
  L3.k_12centers L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate
  L3.interest_rate L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit
  L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L1.3.party_type
  L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
  L1.abstentionism L2.abstentionism L3.abstentionism L1.pop_share014
  L2.pop_share014 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus
  L3.pop_share65plus
2, model(level):
  D.L1.rpc_cap_prot D.elec_t D.L.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix	chi2(38)	=	53.2626
	Prob > chi2	=	0.0512

2-step moment functions, 3-step weighting matrix	chi2(38)	=	57.9363
	Prob > chi2	=	0.0201

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1:	z =	-4.1036	Prob > z =	0.0000
H0: no autocorrelation of order 2:	z =	2.2646	Prob > z =	0.0235

Generalized method of moments estimation

Fitting full model:

Step 1	f(b) =	.72900729
Step 2	f(b) =	.75570961

Fitting reduced model 2:

Step 1	f(b) =	.68263039
--------	--------	------------------

Group variable: mun_id	Number of obs	=	1092
Time variable: year	Number of groups	=	81

Moment conditions:	linear =	64	Obs per group:	min =	5
	nonlinear =	0		avg =	13.48148
	total =	64		max =	14

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_cap_prot	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_prot						
L1.	.3711022	.0836994	4.43	0.000	.2070545	.53515
elec_t						
--.	.0540556	.1188157	0.45	0.649	-.1788189	.2869302
L1.	-.4071485	.1106274	-3.68	0.000	-.6239742	-.1903229
Age	.0088884	.0122519	0.73	0.468	-.015125	.0329017
sex						
Male	.1702176	.2068014	0.82	0.410	-.2351058	.575541
k_12centers	.0008874	.0020465	0.43	0.665	-.0031238	.0048985
gdp	6.62e-08	1.89e-08	3.51	0.000	2.92e-08	1.03e-07
interest_rate	-.0593738	.0295706	-2.01	0.045	-.1173311	-.0014166
debt	-.0504794	.0097019	-5.20	0.000	-.0694948	-.031464
deficit	-2.30e-09	1.70e-07	-0.01	0.989	-3.36e-07	3.31e-07
party_type						
National	-1.068815	.650406	-1.64	0.100	-2.343588	.2059569

Provincial	-6.814952	8.211846	-0.83	0.407	-22.90988	9.279971
win_margin	.0359043	.009339	3.84	0.000	.0176002	.0542084
abstentionism	-.0514941	.017391	-2.96	0.003	-.0855798	-.0174083
pop_share014	.0240388	.0375353	0.64	0.522	-.049529	.0976067
pop_share65plus	-.0131492	.1100351	-0.12	0.905	-.228814	.2025156
_cons	8.135546	1.52135	5.35	0.000	5.153755	11.11734

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L1_rpc_cap_prot L2.L1_rpc_cap_prot L3.L1_rpc_cap_prot
  L4.L1_rpc_cap_prot L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex
  L4.2.sex L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp
  L2.gdp L3.gdp L4.gdp L2.interest_rate L1.debt L2.debt L3.debt L4.debt
  L1.deficit L2.deficit L3.deficit L4.deficit L1.2bn.party_type
  L2.2bn.party_type L3.2bn.party_type L4.2bn.party_type L1.3.party_type
  L2.3.party_type L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin
  L3.win_margin L4.win_margin L1.abstentionism L2.abstentionism
  L3.abstentionism L4.abstentionism L1.pop_share014 L2.pop_share014
  L3.pop_share014 L4.pop_share014 L1.pop_share65plus L2.pop_share65plus
  L3.pop_share65plus L4.pop_share65plus
2, model(level):
  D.L1_rpc_cap_prot D.elec_t D.L.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(49) = 61.2125
 Prob > chi2 = 0.1131

2-step moment functions, 3-step weighting matrix chi2(49) = 66.7081
 Prob > chi2 = 0.0469

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -4.5626 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = 2.2830 Prob > |z| = 0.0224

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .03877462

Step 2 f(b) = .04241683

Group variable: **mun_id** Number of obs = 1007

Time variable: **year** Number of groups = 81

Moment conditions: linear = 26 Obs per group: min = 3
 nonlinear = 0 avg = 12.4321
 total = 26 max = 13

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_cap_prot	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_prot						
L1.	.5514214	.1275009	4.32	0.000	.3015241	.8013186
L2.	.2938715	.0606538	4.85	0.000	.1749922	.4127507
elec_t						
--.	.4089172	.1238985	3.30	0.001	.1660805	.6517539
L1.	.0555571	.1443977	0.38	0.700	-.2274572	.3385714
Age	-.0076052	.0149734	-0.51	0.612	-.0369526	.0217421
sex						
Male	.8711999	.2611917	3.34	0.001	.3592736	1.383126
k_12centers	-.0071078	.0031886	-2.23	0.026	-.0133573	-.0008583
gdp	1.41e-07	2.97e-08	4.75	0.000	8.27e-08	1.99e-07

interest_rate	.0026653	.035075	0.08	0.939	-.0660804	.0714109
debt	-.0588806	.010304	-5.71	0.000	-.0790761	-.0386851
deficit	-4.98e-07	2.07e-07	-2.41	0.016	-9.04e-07	-9.31e-08
party_type						
National	.0881893	1.025417	0.09	0.931	-1.92159	2.097969
Provincial	12.7212	12.85846	0.99	0.323	-12.48093	37.92332
win_margin	.0268834	.0130474	2.06	0.039	.0013108	.0524559
abstentionism	-.0599573	.0252102	-2.38	0.017	-.1093684	-.0105461
pop_share014	.1720677	.0469994	3.66	0.000	.0799506	.2641848
pop_share65plus	-.3818875	.1695565	-2.25	0.024	-.7142122	-.0495629
_cons	2.130054	2.41098	0.88	0.377	-2.595379	6.855488

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L2.1_rpc_cap_prot L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
  L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
  L1.abstentionism L1.pop_share014 L1.pop_share65plus
2, model(level):
  D.L.1_rpc_cap_prot D.L2.1_rpc_cap_prot D.elec_t D.L.elec_t D.Age D.2.sex
  D.k_12centers D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(10) = 3.4358
 Prob > chi2 = 0.9692

2-step moment functions, 3-step weighting matrix chi2(10) = 9.6667
 Prob > chi2 = 0.4702

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -3.1012 Prob > |z| = 0.0019

H0: no autocorrelation of order 2: z = -1.1617 Prob > |z| = 0.2454

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .18615322

Step 2 f(b) = .3792567

Fitting reduced model 2:

Step 1 f(b) = .20956341

Group variable: **mun_id**

Number of obs = 1007

Time variable: **year**

Number of groups = 81

Moment conditions: linear = 40 Obs per group: min = 3
 nonlinear = 0 avg = 12.4321
 total = 40 max = 13

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_cap_prot	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_prot						
L1.	.5787476	.1425273	4.06	0.000	.2993993	.8580959
L2.	.2335793	.0743973	3.14	0.002	.0877634	.3793952
elec_t						
--.	.3439539	.1371549	2.51	0.012	.0751352	.6127725
L1.	.0100735	.1369431	0.07	0.941	-.2583301	.2784771
Age	-.0019948	.0139685	-0.14	0.886	-.0293725	.0253829
sex						
Male	.4888287	.2562226	1.91	0.056	-.0133584	.9910159
k_12centers	-.0026328	.0023401	-1.13	0.261	-.0072194	.0019538

gdp	1.35e-07	2.30e-08	5.88	0.000	9.01e-08	1.80e-07
interest_rate	-.0052194	.0376679	-0.14	0.890	-.0790472	.0686084
debt	-.0617421	.0119417	-5.17	0.000	-.0851474	-.0383368
deficit	-4.08e-07	1.92e-07	-2.12	0.034	-7.85e-07	-3.16e-08
party_type						
National	-.4882142	1.061049	-0.46	0.645	-2.567832	1.591404
Provincial	3.9252	13.53187	0.29	0.772	-22.59679	30.44719
win_margin	.0383079	.0129134	2.97	0.003	.012998	.0636177
abstentionism	-.0409344	.0299183	-1.37	0.171	-.0995731	.0177043
pop_share014	.1305981	.0431562	3.03	0.002	.0460134	.2151827
pop_share65plus	-.2377633	.1530276	-1.55	0.120	-.537692	.0621654
_cons	1.682155	2.387871	0.70	0.481	-2.997986	6.362296

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L2.1_rpc_cap_prot L2.L2.1_rpc_cap_prot L1.Age L2.Age L1.2.sex L2.2.sex
  L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
  L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
  L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
  L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
  L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
2, model(level):
  D.L.1_rpc_cap_prot D.L2.1_rpc_cap_prot D.elec_t D.L.elec_t D.Age D.2.sex
  D.k_12centers D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(24) = 30.7198
 Prob > chi2 = 0.1620

2-step moment functions, 3-step weighting matrix chi2(24) = 34.8169
 Prob > chi2 = 0.0712

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -3.3518 Prob > |z| = 0.0008
 H0: no autocorrelation of order 2: z = -0.4224 Prob > |z| = 0.6727

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .47292551
 Step 2 f(b) = .63721806

Fitting reduced model 2:

Step 1 f(b) = .48610562

Group variable: **mun_id** Number of obs = 1007
 Time variable: **year** Number of groups = 81

Moment conditions: linear = 54 Obs per group: min = 3
 nonlinear = 0 avg = 12.4321
 total = 54 max = 13

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_cap_prot	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_prot						
L1.	.5412558	.0990695	5.46	0.000	.3470831	.7354285
L2.	.2066435	.0813458	2.54	0.011	.0472086	.3660784
elec_t						
--.	.028998	.1126376	0.26	0.797	-.1917676	.2497636
L1.	-.2805977	.1048483	-2.68	0.007	-.4860965	-.0750989
Age	.012153	.0108054	1.12	0.261	-.0090252	.0333313

sex						
Male	.203226	.188636	1.08	0.281	-.1664937	.5729457
k_12centers	-.0008545	.0014945	-0.57	0.567	-.0037838	.0020747
gdp	1.38e-07	2.73e-08	5.05	0.000	8.45e-08	1.92e-07
interest_rate	-.0410704	.0359607	-1.14	0.253	-.111552	.0294113
debt	-.0816082	.011333	-7.20	0.000	-.1038205	-.059396
deficit	-4.88e-08	1.68e-07	-0.29	0.771	-3.78e-07	2.81e-07
party_type						
National	-1.188708	1.038859	-1.14	0.253	-3.224833	.8474175
Provincial	2.60491	10.16318	0.26	0.798	-17.31456	22.52438
win_margin	.0166462	.0144171	1.15	0.248	-.0116108	.0449032
abstentionism	-.0171015	.0258248	-0.66	0.508	-.0677172	.0335142
pop_share014	.0744868	.0336911	2.21	0.027	.0084535	.1405201
pop_share65plus	-.0052305	.096342	-0.05	0.957	-.1940574	.1835964
_cons	2.232807	2.485342	0.90	0.369	-2.638374	7.103988

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.1_rpc_cap_prot L2.L2.1_rpc_cap_prot L3.L2.1_rpc_cap_prot L1.Age
 L2.Age L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
 L3.k_12centers L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate
 L3.interest_rate L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit
 L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L1.3.party_type
 L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
 L1.abstentionism L2.abstentionism L3.abstentionism L1.pop_share014
 L2.pop_share014 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus
 L3.pop_share65plus

2, model(level):

D.L.1_rpc_cap_prot D.L2.1_rpc_cap_prot D.elec_t D.L.elec_t D.Age D.2.sex
 D.k_12centers D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(38) = 51.6147
 Prob > chi2 = 0.0693

2-step moment functions, 3-step weighting matrix chi2(38) = 58.2642
 Prob > chi2 = 0.0188

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -4.1925 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = -0.3150 Prob > |z| = 0.7528

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .5514843

Step 2 f(b) = .71993281

Fitting reduced model 2:

Step 1 f(b) = .56547116

Group variable: mun_id

Number of obs = 1007

Time variable: year

Number of groups = 81

Moment conditions: linear = 64 Obs per group: min = 3
 nonlinear = 0 avg = 12.4321
 total = 64 max = 13

(Std. err. adjusted for 81 clusters in mun_id)

l_rpc_cap_prot	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_prot						
L1.	.5272386	.0988854	5.33	0.000	.3334267	.7210504
L2.	.1915003	.08947	2.14	0.032	.0161423	.3668583
elec_t						
--.	.0518811	.1166647	0.44	0.657	-.1767776	.2805397
L1.	-.253066	.1039665	-2.43	0.015	-.4568367	-.0492954
Age	.0122005	.0103745	1.18	0.240	-.0081332	.0325342
sex						
Male	.1392524	.1800158	0.77	0.439	-.2135719	.4920768
k_12centers	-.0012323	.0014524	-0.85	0.396	-.0040789	.0016142
gdp	1.35e-07	2.76e-08	4.88	0.000	8.07e-08	1.89e-07
interest_rate	-.0351024	.037138	-0.95	0.345	-.1078915	.0376867
debt	-.0781489	.0112342	-6.96	0.000	-.1001675	-.0561302
deficit	-9.62e-08	1.66e-07	-0.58	0.563	-4.22e-07	2.30e-07
party_type						
National	-1.297412	.9645076	-1.35	0.179	-3.187812	.5929884
Provincial	-.999326	6.872685	-0.15	0.884	-14.46954	12.47089
win_margin	.0183952	.0126725	1.45	0.147	-.0064425	.0432328
abstentionism	-.0249872	.0275556	-0.91	0.365	-.0789953	.0290208
pop_share014	.0809251	.0355316	2.28	0.023	.0112843	.1505658
pop_share65plus	-.0254407	.0851619	-0.30	0.765	-.192355	.1414736
_cons	2.87816	2.776918	1.04	0.300	-2.564499	8.320819

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.1_rpc_cap_prot L2.L2.1_rpc_cap_prot L3.L2.1_rpc_cap_prot
 L4.L2.1_rpc_cap_prot L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex
 L4.2.sex L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp
 L2.gdp L3.gdp L4.gdp L2.interest_rate L2.debt L3.debt L4.debt L1.deficit
 L2.deficit L3.deficit L4.deficit L1.2bn.party_type L2.2bn.party_type
 L3.2bn.party_type L4.2bn.party_type L1.3.party_type L2.3.party_type
 L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin L3.win_margin
 L4.win_margin L1.abstentionism L2.abstentionism L3.abstentionism
 L4.abstentionism L1.pop_share014 L2.pop_share014 L3.pop_share014
 L4.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus
 L4.pop_share65plus

2, model(level):

D.L1_rpc_cap_prot D.L2.1_rpc_cap_prot D.elec_t D.L.elec_t D.Age D.2.sex
 D.k_12centers D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(48) = 58.3146
 Prob > chi2 = 0.1463

2-step moment functions, 3-step weighting matrix chi2(48) = 65.4367
 Prob > chi2 = 0.0478

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -4.3167 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = -0.1167 Prob > |z| = 0.9071

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .01868503

Step 2 f(b) = .07325517

Fitting reduced model 2:

Step 1 $f(b) = 4.119\text{e-}20$ Group variable: **mun_id**

Number of obs = 1125

Time variable: **year**

Number of groups = 81

Moment conditions:	linear =	24	Obs per group:	min =	11
	nonlinear =	0		avg =	13.88889
	total =	24		max =	14

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_maintenance	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_maintenance						
L1.	.3835427	.0817295	4.69	0.000	.2233558	.5437295
elec_t	-.0118224	.0407976	-0.29	0.772	-.0917842	.0681395
Age	.0014959	.0066889	0.22	0.823	-.0116141	.0146059
sex						
Male	-.3021727	.1768919	-1.71	0.088	-.6488745	.0445291
k_12centers	-.0021154	.0013033	-1.62	0.105	-.0046697	.0004389
gdp	2.71e-08	1.02e-08	2.65	0.008	7.08e-09	4.71e-08
interest_rate	-.0044545	.019199	-0.23	0.817	-.0420839	.0331749
debt	-.0037783	.00442	-0.85	0.393	-.0124412	.0048846
deficit	-2.70e-08	7.33e-08	-0.37	0.713	-1.71e-07	1.17e-07
party_type						
National	.0233212	.4874955	0.05	0.962	-.9321525	.9787948
Provincial	3.236882	7.995626	0.40	0.686	-12.43426	18.90802
win_margin	-.0092892	.0053054	-1.75	0.080	-.0196875	.0011092
abstentionism	.0054217	.0082698	0.66	0.512	-.0107867	.0216301
pop_share014	.0284301	.012826	2.22	0.027	.0032915	.0535686
pop_share65plus	.0291275	.0405655	0.72	0.473	-.0503794	.1086343
_cons	3.087777	1.300473	2.37	0.018	.5388978	5.636657

Instruments corresponding to the linear moment conditions:

- 1, model(diff):
 - L1.L1_rpc maintenance L1.Age L1.2.sex L1.k_12centers L1.gdp
 - L1.interest_rate L1.debt L1.deficit L1.2bn.party_type L1.3.party_type
 - L1.win_margin L1.abstentionism L1.pop_share014 L1.pop_share65plus
- 2, model(level):
 - D.L1_rpc maintenance D.elec_t D.Age D.2.sex D.k_12centers D.gdp
 - D.interest_rate D.debt D.deficit
- 3, model(level):
 - _cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix	chi2(10)	=	5.9337
	Prob > chi2	=	0.8208

2-step moment functions, 3-step weighting matrix	chi2(10)	=	6.7333
	Prob > chi2	=	0.7504

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -5.9613 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = 1.3292 Prob > |z| = 0.1838

Generalized method of moments estimation

Fitting full model:

Step 1 $f(b) = .06510463$ Step 2 $f(b) = .23588916$

Fitting reduced model 2:

Step 1 $f(b) = .12181464$

Group variable: **mun_id** Number of obs = **1125**
 Time variable: **year** Number of groups = **81**

Moment conditions: linear = **38** Obs per group: min = **11**
 nonlinear = **0** avg = **13.88889**
 total = **38** max = **14**

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_maintenance	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_maintenance						
L1.	.4672843	.0574102	8.14	0.000	.3547624	.5798062
elec_t	.0024883	.0463391	0.05	0.957	-.0883347	.0933112
Age	.0016682	.0074876	0.22	0.824	-.0130072	.0163436
sex						
Male	-.167073	.1684581	-0.99	0.321	-.4972447	.1630988
k_12centers	-.0016068	.0013171	-1.22	0.222	-.0041883	.0009747
gdp	3.06e-08	1.08e-08	2.82	0.005	9.33e-09	5.18e-08
interest_rate	-.0222387	.0170548	-1.30	0.192	-.0556655	.0111882
debt	-.0051971	.0043368	-1.20	0.231	-.0136971	.0033029
deficit	-3.38e-08	8.19e-08	-0.41	0.680	-1.94e-07	1.27e-07
party_type						
National	.2312497	.4267998	0.54	0.588	-.6052627	1.067762
Provincial	-1.614838	6.458445	-0.25	0.803	-14.27316	11.04348
win_margin	-.0048797	.0074506	-0.65	0.513	-.0194827	.0097232
abstentionism	-.0040771	.0131327	-0.31	0.756	-.0298167	.0216626
pop_share014	.0317528	.0196904	1.61	0.107	-.0068397	.0703452
pop_share65plus	-.0260475	.0496524	-0.52	0.600	-.1233644	.0712695
_cons	3.14873	1.260447	2.50	0.012	.6782995	5.619161

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L1_rpc_maintenance L2.L1_rpc_maintenance L1.Age L2.Age L1.2.sex
  L2.2.sex L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
  L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
  L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
  L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
  L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
2, model(level):
  D.L1_rpc_maintenance D.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions
 H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(24) = **19.1070**
 Prob > chi2 = **0.7463**

2-step moment functions, 3-step weighting matrix chi2(24) = **19.9505**
 Prob > chi2 = **0.6996**

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-6.0674** Prob > |z| = **0.0000**
 H0: no autocorrelation of order 2: z = **1.2564** Prob > |z| = **0.2090**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.07977775**
 Step 2 f(b) = **.27882971**

Fitting reduced model 2:

Step 1 f(b) = **.20062795**

Group variable: **mun_id** Number of obs = **1125**
 Time variable: **year** Number of groups = **81**

Moment conditions: linear = **51** Obs per group: min = **11**
 nonlinear = **0** avg = **13.88889**
 total = **51** max = **14**

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_maintenance	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_maintenance						
L1.	.4697414	.0479703	9.79	0.000	.3757213	.5637614
elec_t	-.00807	.0413552	-0.20	0.845	-.0891246	.0729847
Age	-.0006195	.0061205	-0.10	0.919	-.0126156	.0113765
sex						
Male	-.1404362	.1284307	-1.09	0.274	-.3921558	.1112833
k_12centers	-.0018909	.0010068	-1.88	0.060	-.0038641	.0000823
gdp	3.22e-08	8.42e-09	3.82	0.000	1.57e-08	4.87e-08
interest_rate	-.0221696	.0158302	-1.40	0.161	-.0531963	.0088572
debt	-.0046912	.0041911	-1.12	0.263	-.0129057	.0035233
deficit	-4.70e-08	7.69e-08	-0.61	0.541	-1.98e-07	1.04e-07
party_type						
National	.3808598	.3195842	1.19	0.233	-.2455138	1.007233
Provincial	-2.528678	5.502386	-0.46	0.646	-13.31316	8.2558
win_margin	.0006461	.006848	0.09	0.925	-.0127758	.0140679
abstentionism	-.0105668	.0135876	-0.78	0.437	-.0371979	.0160644
pop_share014	.040136	.014199	2.83	0.005	.0123065	.0679655
pop_share65plus	-.0415957	.0423789	-0.98	0.326	-.1246568	.0414654
_cons	3.322557	1.188005	2.80	0.005	.9941111	5.651004

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L1_rpc_maintenance L2.L1_rpc_maintenance L3.L1_rpc_maintenance L1.Age
  L2.Age L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
  L3.k_12centers L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate
  L3.interest_rate L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit
  L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L1.3.party_type
  L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
  L1.abstentionism L2.abstentionism L3.abstentionism L1.pop_share014
  L2.pop_share014 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus
  L3.pop_share65plus
2, model(level):
  D.L1_rpc_maintenance D.Age D.2.sex D.k_12centers D.gdp D.interest_rate
  D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(37) = **22.5852**
 Prob > chi2 = **0.9700**

2-step moment functions, 3-step weighting matrix chi2(37) = **24.0834**
 Prob > chi2 = **0.9499**

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-5.9986** Prob > |z| = **0.0000**
 H0: no autocorrelation of order 2: z = **1.2373** Prob > |z| = **0.2160**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.12829575**
 Step 2 f(b) = **.45892952**

Fitting reduced model 2:
Step 1 f(b) = **.38233915**

Group variable: **mun_id** Number of obs = **1125**
Time variable: **year** Number of groups = **81**

Moment conditions: linear = **61** Obs per group: min = **11**
nonlinear = **0** avg = **13.88889**
total = **61** max = **14**

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_maintenance	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_maintenance						
L1.	.462102	.060569	7.63	0.000	.343389	.580815
elec_t	-.0214671	.0379559	-0.57	0.572	-.0958593	.0529251
Age	.0043857	.0053038	0.83	0.408	-.0060095	.0147809
sex						
Male	-.2324382	.0858913	-2.71	0.007	-.400782	-.0640944
k_12centers	-.0015075	.0010231	-1.47	0.141	-.0035127	.0004978
gdp	3.71e-08	9.05e-09	4.10	0.000	1.94e-08	5.48e-08
interest_rate	-.0304992	.0142491	-2.14	0.032	-.0584269	-.0025716
debt	-.0076987	.0039858	-1.93	0.053	-.0155106	.0001133
deficit	3.78e-08	6.56e-08	0.58	0.565	-9.08e-08	1.66e-07
party_type						
National	.3258687	.2574292	1.27	0.206	-.1786832	.8304207
Provincial	-5.748328	5.077319	-1.13	0.258	-15.69969	4.203034
win_margin	.0018144	.0058121	0.31	0.755	-.0095771	.013206
abstentionism	-.0034872	.0098667	-0.35	0.724	-.0228256	.0158512
pop_share014	.0316223	.0166427	1.90	0.057	-.0009967	.0642414
pop_share65plus	-.0371668	.040621	-0.91	0.360	-.1167826	.0424489
_cons	3.145758	1.209483	2.60	0.009	.7752146	5.516301

Instruments corresponding to the linear moment conditions:

- 1, model(diff):
L1.L.1_rpc_maintenance L2.L.1_rpc_maintenance L3.L.1_rpc_maintenance
L4.L.1_rpc_maintenance L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex
L3.2.sex L4.2.sex L1.k_12centers L2.k_12centers L3.k_12centers
L4.k_12centers L1.gdp L2.gdp L3.gdp L4.gdp L4.interest_rate L2.debt L3.debt
L4.debt L1.deficit L2.deficit L3.deficit L4.deficit L1.2bn.party_type
L2.2bn.party_type L3.2bn.party_type L4.2bn.party_type L1.3.party_type
L2.3.party_type L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin
L3.win_margin L4.win_margin L1.abstentionism L2.abstentionism
L3.abstentionism L4.abstentionism L1.pop_share014 L2.pop_share014
L3.pop_share014 L4.pop_share014 L1.pop_share65plus L2.pop_share65plus
L3.pop_share65plus L4.pop_share65plus
- 2, model(level):
D.L.1_rpc_maintenance D.Age D.2.sex D.k_12centers D.gdp D.interest_rate
D.debt D.deficit
- 3, model(level):
_cons

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(47) = **37.1733**
Prob > chi2 = **0.8471**

2-step moment functions, 3-step weighting matrix chi2(47) = **49.8401**
Prob > chi2 = **0.3610**

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-6.0816** Prob > |z| = **0.0000**
H0: no autocorrelation of order 2: z = **1.2302** Prob > |z| = **0.2186**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .03681447

Step 2 f(b) = .18762756

Fitting reduced model 2:

Step 1 f(b) = 2.214e-17

Group variable: **mun_id** Number of obs = 1042Time variable: **year** Number of groups = 81

Moment conditions: linear = 25 Obs per group: min = 10
 nonlinear = 0 avg = 12.8642
 total = 25 max = 13

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_maintenance	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_maintenance						
L1.	.4813017	.0646398	7.45	0.000	.35461	.6079934
L2.	.0740662	.063501	1.17	0.243	-.0503935	.198526
elec_t	.0038781	.0582536	0.07	0.947	-.1102968	.1180531
Age	-.002332	.007385	-0.32	0.752	-.0168063	.0121423
sex						
Male	-.136349	.1546316	-0.88	0.378	-.4394213	.1667233
k_12centers	-.0014529	.0010903	-1.33	0.183	-.0035898	.0006841
gdp	2.23e-08	1.76e-08	1.27	0.205	-1.22e-08	5.68e-08
interest_rate	.0005358	.02097	0.03	0.980	-.0405647	.0416362
debt	-.0072479	.0076908	-0.94	0.346	-.0223215	.0078257
deficit	-3.41e-08	9.09e-08	-0.38	0.707	-2.12e-07	1.44e-07
party_type						
National	.5520279	.5211389	1.06	0.289	-.4693855	1.573441
Provincial	2.177765	5.720153	0.38	0.703	-9.033529	13.38906
win_margin	.0088002	.009166	0.96	0.337	-.0091648	.0267652
abstentionism	-.0094049	.013916	-0.68	0.499	-.0366797	.01787
pop_share014	.0253531	.0165949	1.53	0.127	-.0071723	.0578785
pop_share65plus	.0363345	.0536065	0.68	0.498	-.0687323	.1414012
_cons	2.468489	1.620235	1.52	0.128	-.7071128	5.64409

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.l_rpc_maintenance L1.Age L1.2.sex L1.k_12centers L1.gdp
 L1.interest_rate L1.debt L1.deficit L1.2bn.party_type L1.3.party_type
 L1.win_margin L1.abstentionism L1.pop_share014 L1.pop_share65plus

2, model(level):

D.L.l_rpc_maintenance D.L2.l_rpc_maintenance D.elec_t D.Age D.2.sex
 D.k_12centers D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(10) = 15.1978
 Prob > chi2 = 0.1250

2-step moment functions, 3-step weighting matrix chi2(10) = 16.5936
 Prob > chi2 = 0.0839

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -5.5718 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = 0.0741 Prob > |z| = 0.9409

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .06038364

Step 2 f(b) = .30042661

Fitting reduced model 2:

Step 1 f(b) = .12613105

Group variable: **mun_id**

Number of obs = 1042

Time variable: **year**

Number of groups = 81

Moment conditions: linear = 39

Obs per group: min = 10

nonlinear = 0

avg = 12.8642

total = 39

max = 13

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_maintenance	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_maintenance						
L1.	.4974006	.0571109	8.71	0.000	.3854653	.6093359
L2.	.0628398	.0470517	1.34	0.182	-.02938	.1550595
elec_t	-.0159475	.0542198	-0.29	0.769	-.1222164	.0903214
Age	.0000759	.007782	0.01	0.992	-.0151766	.0153284
sex						
Male	-.1258261	.1372231	-0.92	0.359	-.3947784	.1431262
k_12centers	-.0010526	.0010205	-1.03	0.302	-.0030527	.0009475
gdp	2.89e-08	1.25e-08	2.31	0.021	4.42e-09	5.34e-08
interest_rate	-.018158	.0171543	-1.06	0.290	-.0517797	.0154637
debt	-.0098717	.0051103	-1.93	0.053	-.0198877	.0001444
deficit	-2.31e-08	8.48e-08	-0.27	0.785	-1.89e-07	1.43e-07
party_type						
National	.8523619	.3645367	2.34	0.019	.1378831	1.566841
Provincial	.95997	4.552814	0.21	0.833	-7.963381	9.883321
win_margin	.0054623	.0080891	0.68	0.500	-.010392	.0213166
abstentionism	-.0082316	.011955	-0.69	0.491	-.031663	.0151997
pop_share014	.0335309	.0200332	1.67	0.094	-.0057335	.0727953
pop_share65plus	.0161226	.0580289	0.28	0.781	-.0976119	.1298572
_cons	1.996883	1.587612	1.26	0.208	-1.11478	5.108545

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.1_rpc_maintenance L2.L2.1_rpc_maintenance L1.Age L2.Age L1.2.sex
 L2.2.sex L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
 L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
 L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
 L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
 L2.pop_share014 L1.pop_share65plus L2.pop_share65plus

2, model(level):

D.L.1_rpc_maintenance D.L2.1_rpc_maintenance D.elec_t D.Age D.2.sex
 D.k_12centers D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(24) = 24.3346
 Prob > chi2 = 0.4426

2-step moment functions, 3-step weighting matrix chi2(24) = 26.0426
 Prob > chi2 = 0.3510

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -5.9272 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = 0.2922 Prob > |z| = 0.7701

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .0787157

Step 2 f(b) = .4036868

Fitting reduced model 2:

Step 1 f(b) = .27678497

Group variable: **mun_id** Number of obs = 1042Time variable: **year** Number of groups = 81

Moment conditions:	linear =	51	Obs per group:	min =	10
	nonlinear =	0		avg =	12.8642
	total =	51		max =	13

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_maintenance	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_maintenance						
L1.	.4849616	.0538499	9.01	0.000	.3794178	.5905054
L2.	.0591977	.0449902	1.32	0.188	-.0289816	.1473769
elec_t	-.0213936	.0450115	-0.48	0.635	-.1096145	.0668273
Age	-.0019066	.0063568	-0.30	0.764	-.0143657	.0105525
sex						
Male	-.1559831	.125162	-1.25	0.213	-.4012962	.08933
k_12centers	-.000525	.0009434	-0.56	0.578	-.0023741	.0013241
gdp	2.90e-08	1.13e-08	2.57	0.010	6.93e-09	5.11e-08
interest_rate	-.0294279	.0163311	-1.80	0.072	-.0614362	.0025804
debt	-.011549	.0049496	-2.33	0.020	-.0212501	-.001848
deficit	1.67e-09	8.19e-08	0.02	0.984	-1.59e-07	1.62e-07
party_type						
National	.6708326	.2898158	2.31	0.021	.1028041	1.238861
Provincial	-1.327566	4.391996	-0.30	0.762	-9.935719	7.280588
win_margin	.006672	.00815	0.82	0.413	-.0093016	.0226456
abstentionism	-.0113204	.0100006	-1.13	0.258	-.0309212	.0082803
pop_share014	.0277218	.019805	1.40	0.162	-.0110953	.066539
pop_share65plus	.0173116	.0483572	0.36	0.720	-.0774668	.11209
_cons	2.88752	1.35179	2.14	0.033	.2380609	5.536979

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.l_rpc_maintenance L2.L2.l_rpc_maintenance L3.L2.l_rpc_maintenance
 L1.Age L2.Age L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers
 L2.k_12centers L3.k_12centers L1.gdp L2.gdp L3.gdp L3.interest_rate L1.debt
 L2.debt L3.debt L1.deficit L2.deficit L3.deficit L1.2bn.party_type
 L2.2bn.party_type L3.2bn.party_type L1.3.party_type L2.3.party_type
 L3.3.party_type L1.win_margin L2.win_margin L3.win_margin L1.abstentionism
 L2.abstentionism L3.abstentionism L1.pop_share014 L2.pop_share014
 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus

2, model(level):

D.L.l_rpc_maintenance D.L2.l_rpc_maintenance D.elec_t D.Age D.2.sex
 D.k_12centers D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix	chi2(36)	=	32.6986
	Prob > chi2	=	0.6264

2-step moment functions, 3-step weighting matrix	chi2(36)	=	37.2126
	Prob > chi2	=	0.4130

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-5.8412** Prob > |z| = **0.0000**
H0: no autocorrelation of order 2: z = **0.1209** Prob > |z| = **0.9038**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.12321564**
Step 2 f(b) = **.51422508**

Fitting reduced model 2:

Step 1 f(b) = **.39159734**

Group variable: **mun_id** Number of obs = **1042**
Time variable: **year** Number of groups = **81**

Moment conditions: linear = **61** Obs per group: min = **10**
nonlinear = **0** avg = **12.8642**
total = **61** max = **13**

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_maintenance	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_maintenance						
L1.	.4645791	.0608105	7.64	0.000	.3453927	.5837655
L2.	.052639	.0480999	1.09	0.274	-.0416351	.1469131
elec_t	-.0338087	.0402743	-0.84	0.401	-.1127449	.0451274
Age	.0032563	.0054873	0.59	0.553	-.0074986	.0140113
sex						
Male	-.2155561	.1057708	-2.04	0.042	-.422863	-.0082491
k_12centers	-.0001759	.0009564	-0.18	0.854	-.0020504	.0016986
gdp	3.76e-08	1.08e-08	3.48	0.000	1.64e-08	5.87e-08
interest_rate	-.0339247	.0151278	-2.24	0.025	-.0635746	-.0042747
debt	-.0132704	.0049082	-2.70	0.007	-.0228904	-.0036504
deficit	4.77e-08	8.03e-08	0.59	0.552	-1.10e-07	2.05e-07
party_type						
National	.4248596	.2840857	1.50	0.135	-.1319381	.9816574
Provincial	-4.337979	3.875587	-1.12	0.263	-11.93399	3.258031
win_margin	.0069896	.004988	1.40	0.161	-.0027867	.0167658
abstentionism	-.0034985	.0076678	-0.46	0.648	-.0185271	.01153
pop_share014	.0281793	.0167161	1.69	0.092	-.0045837	.0609424
pop_share65plus	-.0039579	.0407243	-0.10	0.923	-.083776	.0758602
_cons	2.696217	1.125835	2.39	0.017	.4896212	4.902813

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.1_rpc_maintenance L2.L2.1_rpc_maintenance L3.L2.1_rpc_maintenance
L4.L2.1_rpc_maintenance L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex
L3.2.sex L4.2.sex L1.k_12centers L2.k_12centers L3.k_12centers
L4.k_12centers L1.gdp L2.gdp L3.gdp L4.gdp L1.debt L3.debt L4.debt
L1.deficit L2.deficit L3.deficit L4.deficit L1.2bn.party_type
L2.2bn.party_type L3.2bn.party_type L4.2bn.party_type L1.3.party_type
L2.3.party_type L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin
L3.win_margin L4.win_margin L1.abstentionism L2.abstentionism
L3.abstentionism L4.abstentionism L1.pop_share014 L2.pop_share014
L3.pop_share014 L4.pop_share014 L1.pop_share65plus L2.pop_share65plus
L3.pop_share65plus L4.pop_share65plus

2, model(level):

D.L.1_rpc_maintenance D.L2.1_rpc_maintenance D.Age D.2.sex D.k_12centers
D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(46) = 41.6522
 Prob > chi2 = 0.6548

2-step moment functions, 3-step weighting matrix chi2(46) = 54.0366
 Prob > chi2 = 0.1943

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -5.7560 Prob > |z| = 0.0000
 H0: no autocorrelation of order 2: z = 0.1346 Prob > |z| = 0.8929

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .01839642
 Step 2 f(b) = .07184976

Fitting reduced model 2:

Step 1 f(b) = 4.810e-20

Group variable: **mun_id** Number of obs = 1125
 Time variable: **year** Number of groups = 81

Moment conditions: linear = 25 Obs per group: min = 11
 nonlinear = 0 avg = 13.88889
 total = 25 max = 14

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_maintenance	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_maintenance						
L1.	.3783895	.0814464	4.65	0.000	.2187575	.5380215
elec_t						
--.	-.0165217	.0516526	-0.32	0.749	-.1177588	.0847155
L1.	-.0116154	.0620737	-0.19	0.852	-.1332776	.1100468
Age	.0015941	.0067589	0.24	0.814	-.0116532	.0148414
sex						
Male	-.2992611	.1779083	-1.68	0.093	-.6479549	.0494328
k_12centers	-.0020496	.0013272	-1.54	0.123	-.0046508	.0005517
gdp	2.64e-08	9.85e-09	2.68	0.007	7.12e-09	4.57e-08
interest_rate	-.0068754	.0242186	-0.28	0.776	-.0543429	.0405921
debt	-.0042698	.0050522	-0.85	0.398	-.014172	.0056324
deficit	-1.52e-08	8.97e-08	-0.17	0.865	-1.91e-07	1.61e-07
party_type						
National	-.0147609	.4921872	-0.03	0.976	-.97943	.9499083
Provincial	2.987899	8.046839	0.37	0.710	-12.78362	18.75941
win_margin	-.0088368	.0052869	-1.67	0.095	-.0191989	.0015254
abstentionism	.0043848	.0087943	0.50	0.618	-.0128517	.0216213
pop_share014	.0272604	.0135455	2.01	0.044	.0007117	.0538091
pop_share65plus	.0325567	.0388265	0.84	0.402	-.0435419	.1086553
_cons	3.293028	1.435697	2.29	0.022	.4791142	6.106943

Instruments corresponding to the linear moment conditions:

1, model(diff):

 L1.L1_rpc_maintenance L1.Age L1.2.sex L1.k_12centers L1.gdp
 L1.interest_rate L1.debt L1.deficit L1.2bn.party_type L1.3.party_type
 L1.win_margin L1.abstentionism L1.pop_share014 L1.pop_share65plus

2, model(level):

 D.L1_rpc_maintenance D.elec_t D.L.elec_t D.Age D.2.sex D.k_12centers D.gdp
 D.interest_rate D.debt D.deficit

3, model(level):

 _cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(10) = 5.8198
 Prob > chi2 = 0.8302

2-step moment functions, 3-step weighting matrix chi2(10) = 6.4752
 Prob > chi2 = 0.7739

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -5.9255 Prob > |z| = 0.0000
 H0: no autocorrelation of order 2: z = 1.2947 Prob > |z| = 0.1954

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .06621283
 Step 2 f(b) = .23747407

Fitting reduced model 2:

Step 1 f(b) = .0957345

Group variable: **mun_id** Number of obs = 1125
 Time variable: **year** Number of groups = 81

Moment conditions: linear = 39 Obs per group: min = 11
 nonlinear = 0 avg = 13.88889
 total = 39 max = 14

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_maintenance	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_maintenance						
L1.	.4643937	.0568705	8.17	0.000	.3529296	.5758579
elec_t						
--.	-.0181607	.0628629	-0.29	0.773	-.1413696	.1050483
L1.	-.0275128	.0632813	-0.43	0.664	-.1515418	.0965163
Age	.0014983	.0076322	0.20	0.844	-.0134605	.0164571
sex						
Male	-.1760583	.1693547	-1.04	0.299	-.5079874	.1558709
k_12centers	-.001629	.0012982	-1.25	0.210	-.0041735	.0009155
gdp	3.08e-08	9.67e-09	3.18	0.001	1.18e-08	4.97e-08
interest_rate	-.0267622	.0234568	-1.14	0.254	-.0727367	.0192124
debt	-.0058481	.0048118	-1.22	0.224	-.0152791	.003583
deficit	-1.49e-08	1.06e-07	-0.14	0.888	-2.22e-07	1.92e-07
party_type						
National	.2898094	.4035571	0.72	0.473	-.5011479	1.080767
Provincial	-.957374	6.435957	-0.15	0.882	-13.57162	11.65687
win_margin	-.0050208	.0077085	-0.65	0.515	-.0201293	.0100876
abstentionism	-.0043548	.0128085	-0.34	0.734	-.0294591	.0207494
pop_share014	.0302065	.0206471	1.46	0.143	-.0102611	.0706741
pop_share65plus	-.0230365	.0525605	-0.44	0.661	-.1260532	.0799801
_cons	3.257127	1.295977	2.51	0.012	.717058	5.797196

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L1.l_rpc_maintenance L2.L1.l_rpc_maintenance L1.Age L2.Age L1.2.sex
 L2.2.sex L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
 L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
 L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
 L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
 L2.pop_share014 L1.pop_share65plus L2.pop_share65plus

2, model(level):

D.L1.l_rpc_maintenance D.elec_t D.L.elec_t D.Age D.2.sex D.k_12centers D.gdp
 D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(24) = 19.2354
Prob > chi2 = 0.7393

2-step moment functions, 3-step weighting matrix chi2(24) = 20.0851
Prob > chi2 = 0.6919

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = -6.0540 Prob > |z| = 0.0000
H0: no autocorrelation of order 2: z = 1.2484 Prob > |z| = 0.2119

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .07791501
Step 2 f(b) = .27852892

Fitting reduced model 2:

Step 1 f(b) = .19322545

Group variable: **mun_id** Number of obs = 1125
Time variable: **year** Number of groups = 81

Moment conditions: linear = 51 Obs per group: min = 11
 nonlinear = 0 avg = 13.88889
 total = 51 max = 14

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_maintenance	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_maintenance						
L1.	.4682579	.0486001	9.63	0.000	.3730034	.5635124
elec_t						
--.	-.0126447	.0510759	-0.25	0.804	-.1127517	.0874624
L1.	-.0014188	.0535005	-0.03	0.979	-.1062777	.1034402
Age	-.0008302	.0067497	-0.12	0.902	-.0140594	.0123989
sex						
Male	-.1324855	.1237402	-1.07	0.284	-.3750119	.1100408
k_12centers	-.0018184	.0010548	-1.72	0.085	-.0038858	.0002489
gdp	3.29e-08	9.16e-09	3.60	0.000	1.50e-08	5.09e-08
interest_rate	-.0221182	.0193514	-1.14	0.253	-.0600461	.0158098
debt	-.0052019	.0043755	-1.19	0.234	-.0137777	.003374
deficit	-4.03e-08	9.19e-08	-0.44	0.661	-2.20e-07	1.40e-07
party_type						
National	.4138653	.3510211	1.18	0.238	-.2741234	1.101854
Provincial	-2.335176	5.496701	-0.42	0.671	-13.10851	8.43816
win_margin	-.0000254	.0069066	-0.00	0.997	-.0135621	.0135112
abstentionism	-.0093947	.0137514	-0.68	0.494	-.036347	.0175575
pop_share014	.037607	.0154912	2.43	0.015	.0072449	.0679692
pop_share65plus	-.0390208	.0487895	-0.80	0.424	-.1346464	.0566048
_cons	3.283392	1.201666	2.73	0.006	.9281695	5.638614

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L.1_rpc_maintenance L2.L.1_rpc_maintenance L3.L.1_rpc_maintenance L1.Age
L2.Age L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
L3.k_12centers L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate
L3.interest_rate L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit
L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L1.3.party_type
L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
L1.abstentionism L2.abstentionism L3.abstentionism L1.pop_share014
L2.pop_share014 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus
L3.pop_share65plus

```

2, model(level):
  D.L1_rpc maintenance D.Age D.2.sex D.k_12centers D.gdp D.interest_rate
  D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(36)      =    22.5608
                                                         Prob > chi2    =    0.9606

```

```

2-step moment functions, 3-step weighting matrix      chi2(36)      =    24.7650
                                                         Prob > chi2    =    0.9212

```

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = **-5.9884** Prob > |z| = **0.0000**
H0: no autocorrelation of order 2: z = **1.2379** Prob > |z| = **0.2158**

Generalized method of moments estimation

```

Fitting full model:
Step 1          f(b) = .12597278
Step 2          f(b) = .45265171

```

```

Fitting reduced model 2:
Step 1          f(b) = .36431577

```

```

Group variable: mun_id                Number of obs      =    1125
Time variable: year                  Number of groups   =     81

```

```

Moment conditions:      linear =      61      Obs per group:   min =      11
                       nonlinear =      0      avg =    13.88889
                       total =     61      max =      14

```

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_maintenance	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_maintenance						
L1.	.4594711	.0602332	7.63	0.000	.3414163	.5775259
elec_t						
--.	-.0280561	.0467048	-0.60	0.548	-.1195959	.0634837
L1.	-.0085421	.057125	-0.15	0.881	-.1205051	.1034208
Age	.0041597	.0057181	0.73	0.467	-.0070476	.0153671
sex						
Male	-.2197365	.0853941	-2.57	0.010	-.3871058	-.0523671
k_12centers	-.0013788	.0011124	-1.24	0.215	-.0035591	.0008015
gdp	3.72e-08	9.93e-09	3.74	0.000	1.77e-08	5.66e-08
interest_rate	-.03127	.0164781	-1.90	0.058	-.0635663	.0010264
debt	-.0082792	.0038968	-2.12	0.034	-.0159167	-.0006416
deficit	4.66e-08	7.81e-08	0.60	0.551	-1.06e-07	2.00e-07
party_type						
National	.3609831	.2764665	1.31	0.192	-.1808814	.9028475
Provincial	-5.459122	5.109877	-1.07	0.285	-15.4743	4.556052
win_margin	.0015955	.0059103	0.27	0.787	-.0099884	.0131794
abstentionism	-.0035874	.0095372	-0.38	0.707	-.02228	.0151053
pop_share014	.029135	.0175612	1.66	0.097	-.0052842	.0635543
pop_share65plus	-.034846	.0418714	-0.83	0.405	-.1169125	.0472205
_cons	3.209584	1.214474	2.64	0.008	.8292594	5.589909

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L1_rpc maintenance L2.L1_rpc maintenance L3.L1_rpc maintenance
  L4.L1_rpc maintenance L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex
  L3.2.sex L4.2.sex L1.k_12centers L2.k_12centers L3.k_12centers

```

```

L4.k_12centers L1.gdp L2.gdp L3.gdp L4.gdp L4.interest_rate L2.debt L3.debt
L4.debt L1.deficit L2.deficit L3.deficit L4.deficit L1.2bn.party_type
L2.2bn.party_type L3.2bn.party_type L4.2bn.party_type L1.3.party_type
L2.3.party_type L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin
L3.win_margin L4.win_margin L1.abstentionism L2.abstentionism
L3.abstentionism L4.abstentionism L1.pop_share014 L2.pop_share014
L3.pop_share014 L4.pop_share014 L1.pop_share65plus L2.pop_share65plus
L3.pop_share65plus L4.pop_share65plus
2, model(level):
  D.L1_rpc maintenance D.Age D.2.sex D.k_12centers D.gdp D.interest_rate
  D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(46)    =    36.6648
                                                         Prob > chi2 =    0.8358

```

```

2-step moment functions, 3-step weighting matrix      chi2(46)    =    49.0814
                                                         Prob > chi2 =    0.3507

```

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = -6.0827 Prob > |z| = 0.0000
H0: no autocorrelation of order 2: z = 1.2288 Prob > |z| = 0.2192

Generalized method of moments estimation

```

Fitting full model:
Step 1            f(b) =   .03705732
Step 2            f(b) =   .18823859

```

```

Group variable: mun_id                                    Number of obs                =       1042
Time variable: year                                      Number of groups            =        81

```

```

Moment conditions:       linear =       26       Obs per group:    min =       10
                         nonlinear =       0                                avg =    12.8642
                         total =       26                                max =       13

```

(Std. err. adjusted for 81 clusters in mun_id)

l_rpc_maintenance	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_maintenance						
L1.	.4804373	.0639798	7.51	0.000	.3550392	.6058354
L2.	.073198	.0634056	1.15	0.248	-.0510748	.1974707
elec_t						
--.	-.0120707	.0768185	-0.16	0.875	-.1626321	.1384908
L1.	-.0180929	.0766751	-0.24	0.813	-.1683733	.1321875
Age	-.0023863	.0074838	-0.32	0.750	-.0170543	.0122816
sex						
Male	-.1349399	.1553963	-0.87	0.385	-.439511	.1696313
k_12centers	-.0014977	.0011058	-1.35	0.176	-.0036651	.0006697
gdp	2.30e-08	1.77e-08	1.30	0.195	-1.18e-08	5.77e-08
interest_rate	-.0033222	.0278573	-0.12	0.905	-.0579214	.0512771
debt	-.0076055	.0083024	-0.92	0.360	-.023878	.0086669
deficit	-2.20e-08	1.09e-07	-0.20	0.840	-2.36e-07	1.92e-07
party_type						
National	.5642403	.5130117	1.10	0.271	-.4412441	1.569725
Provincial	2.275369	5.773238	0.39	0.693	-9.03997	13.59071
win_margin	.0088454	.009275	0.95	0.340	-.0093332	.027024
abstentionism	-.0103073	.0135595	-0.76	0.447	-.0368835	.0162689
pop_share014	.0248606	.0177808	1.40	0.162	-.009989	.0597103
pop_share65plus	.0320398	.0521091	0.61	0.539	-.0700921	.1341718
_cons	2.62645	1.618659	1.62	0.105	-.546063	5.798963

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L2.l_rpc_maintenance L1.Age L1.2.sex L1.k_12centers L1.gdp
  L1.interest_rate L1.debt L1.deficit L1.2bn.party_type L1.3.party_type
  L1.win_margin L1.abstentionism L1.pop_share014 L1.pop_share65plus
2, model(level):
  D.L.l_rpc_maintenance D.L2.l_rpc_maintenance D.elec_t D.L.elec_t D.Age
  D.2.sex D.k_12centers D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(10) = **15.2473**
 Prob > chi2 = **0.1233**

2-step moment functions, 3-step weighting matrix chi2(10) = **17.3691**
 Prob > chi2 = **0.0666**

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-5.6000** Prob > |z| = **0.0000**
 H0: no autocorrelation of order 2: z = **0.0785** Prob > |z| = **0.9374**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.06049085**
 Step 2 f(b) = **.29483234**

Fitting reduced model 2:

Step 1 f(b) = **.08636298**

Group variable: **mun_id** Number of obs = **1042**
 Time variable: **year** Number of groups = **81**

Moment conditions: linear = **40** Obs per group: min = **10**
 nonlinear = **0** avg = **12.8642**
 total = **40** max = **13**

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_maintenance	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_maintenance						
L1.	.5016224	.0557421	9.00	0.000	.3923699	.6108749
L2.	.0647136	.0463925	1.39	0.163	-.0262141	.1556412
elec_t						
--.	-.0031747	.0571312	-0.06	0.956	-.1151498	.1088005
L1.	.0172743	.0621077	0.28	0.781	-.1044546	.1390032
Age	.0001107	.0078387	0.01	0.989	-.0152528	.0154742
sex						
Male	-.1213711	.1362593	-0.89	0.373	-.3884343	.1456921
k_12centers	-.0009406	.0009992	-0.94	0.347	-.002899	.0010178
gdp	2.84e-08	1.23e-08	2.30	0.021	4.20e-09	5.26e-08
interest_rate	-.0104921	.0219479	-0.48	0.633	-.0535092	.0325251
debt	-.0091573	.0048394	-1.89	0.058	-.0186423	.0003277
deficit	-3.76e-08	8.81e-08	-0.43	0.669	-2.10e-07	1.35e-07
party_type						
National	.8476412	.3447741	2.46	0.014	.1718965	1.523386
Provincial	1.00839	4.474132	0.23	0.822	-7.760747	9.777527
win_margin	.0060201	.0079245	0.76	0.447	-.0095115	.0215518
abstentionism	-.0089328	.0121549	-0.73	0.462	-.032756	.0148904
pop_share014	.0335485	.021875	1.53	0.125	-.0093257	.0764226
pop_share65plus	.0186348	.0589548	0.32	0.752	-.0969145	.1341841

_cons	1.861742	1.655871	1.12	0.261	-1.383706	5.10719
--------------	-----------------	-----------------	-------------	--------------	------------------	----------------

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L2.l_rpc_maintenance L2.L2.l_rpc_maintenance L1.Age L2.Age L1.2.sex
  L2.2.sex L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
  L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
  L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
  L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
  L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
2, model(level):
  D.L.l_rpc_maintenance D.L2.l_rpc_maintenance D.elec_t D.L.elec_t D.Age
  D.2.sex D.k_12centers D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(24) = 23.8814
 Prob > chi2 = 0.4684

2-step moment functions, 3-step weighting matrix chi2(24) = 25.8820
 Prob > chi2 = 0.3592

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -5.9393 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = 0.2893 Prob > |z| = 0.7724

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .07560453

Step 2 f(b) = .40000451

Fitting reduced model 2:

Step 1 f(b) = .25666086

Group variable: **mun_id**

Number of obs = 1042

Time variable: **year**

Number of groups = 81

Moment conditions: linear = 51 Obs per group: min = 10
 nonlinear = 0 avg = 12.8642
 total = 51 max = 13

(Std. err. adjusted for 81 clusters in **mun_id**)

	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_maintenance						
l_rpc_maintenance						
L1.	.4844937	.0555987	8.71	0.000	.3755221	.5934652
L2.	.0604255	.0451707	1.34	0.181	-.0281075	.1489585
elec_t						
--.	-.0278724	.0551627	-0.51	0.613	-.1359893	.0802445
L1.	-.0116534	.0619271	-0.19	0.851	-.1330282	.1097214
Age	-.0021739	.0068112	-0.32	0.750	-.0155236	.0111758
sex						
Male	-.1408549	.1243758	-1.13	0.257	-.3846269	.1029172
k_12centers	-.0004078	.0009706	-0.42	0.674	-.0023102	.0014946
gdp	2.80e-08	1.22e-08	2.29	0.022	4.02e-09	5.20e-08
interest_rate	-.0296541	.0212276	-1.40	0.162	-.0712595	.0119513
debt	-.0116309	.0049596	-2.35	0.019	-.0213515	-.0019103
deficit	9.87e-09	9.18e-08	0.11	0.914	-1.70e-07	1.90e-07
party_type						
National	.7242568	.2997431	2.42	0.016	.136771	1.311743
Provincial	-1.162776	4.342748	-0.27	0.789	-9.674407	7.348855

win_margin	.0065004	.0082927	0.78	0.433	-.0097531	.0227538
abstentionism	-.0116254	.0101876	-1.14	0.254	-.0315928	.0083419
pop_share014	.0239117	.0205351	1.16	0.244	-.0163363	.0641596
pop_share65plus	.0188701	.0474652	0.40	0.691	-.0741599	.1119001
_cons	2.96545	1.32461	2.24	0.025	.3692627	5.561638

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L2.l_rpc_maintenance L2.L2.l_rpc_maintenance L3.L2.l_rpc_maintenance
  L1.Age L2.Age L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers
  L2.k_12centers L3.k_12centers L1.gdp L2.gdp L3.gdp L3.interest_rate L1.debt
  L2.debt L3.debt L1.deficit L2.deficit L3.deficit L1.2bn.party_type
  L2.2bn.party_type L3.2bn.party_type L1.3.party_type L2.3.party_type
  L3.3.party_type L1.win_margin L2.win_margin L3.win_margin L1.abstentionism
  L2.abstentionism L3.abstentionism L1.pop_share014 L2.pop_share014
  L3.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus
2, model(level):
  D.L.l_rpc_maintenance D.L2.l_rpc_maintenance D.elec_t D.Age D.2.sex
  D.k_12centers D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(35) = 32.4004
 Prob > chi2 = 0.5942

2-step moment functions, 3-step weighting matrix chi2(35) = 35.8704
 Prob > chi2 = 0.4275

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -5.7786 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = 0.1095 Prob > |z| = 0.9128

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .12005612

Step 2 f(b) = .51391947

Fitting reduced model 2:

Step 1 f(b) = .38211107

Group variable: mun_id Number of obs = 1042
 Time variable: year Number of groups = 81

Moment conditions: linear = 61 Obs per group: min = 10
 nonlinear = 0 avg = 12.8642
 total = 61 max = 13

(Std. err. adjusted for 81 clusters in mun_id)

l_rpc_maintenance	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_maintenance						
L1.	.4656266	.0611008	7.62	0.000	.3458711	.585382
L2.	.0557694	.0480004	1.16	0.245	-.0383096	.1498485
elec_t						
--.	-.0516501	.0531588	-0.97	0.331	-.1558395	.0525394
L1.	-.0360627	.061098	-0.59	0.555	-.1558126	.0836872
Age	.003877	.0061515	0.63	0.529	-.0081798	.0159337
sex						
Male	-.2153836	.1102097	-1.95	0.051	-.4313906	.0006233
k_12centers	.0000724	.0010492	0.07	0.945	-.0019839	.0021287
gdp	3.49e-08	1.15e-08	3.03	0.002	1.23e-08	5.74e-08
interest_rate	-.0393792	.0186834	-2.11	0.035	-.0759979	-.0027605
debt	-.0136179	.0049109	-2.77	0.006	-.0232431	-.0039928

deficit	7.29e-08	9.55e-08	0.76	0.445	-1.14e-07	2.60e-07
party_type						
National	.473125	.290657	1.63	0.104	-.0965522	1.042802
Provincial	-4.273399	3.90222	-1.10	0.273	-11.92161	3.374812
win_margin	.0069562	.0050308	1.38	0.167	-.0029041	.0168164
abstentionism	-.0037947	.0077858	-0.49	0.626	-.0190546	.0114652
pop_share014	.0237648	.0198579	1.20	0.231	-.0151559	.0626856
pop_share65plus	.0043817	.0421027	0.10	0.917	-.078138	.0869014
_cons	2.794846	1.159318	2.41	0.016	.5226238	5.067068

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L2.l_rpc_maintenance L2.L2.l_rpc_maintenance L3.L2.l_rpc_maintenance
  L4.L2.l_rpc_maintenance L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex
  L3.2.sex L4.2.sex L1.k_12centers L2.k_12centers L3.k_12centers
  L4.k_12centers L1.gdp L2.gdp L3.gdp L4.gdp L1.debt L3.debt L4.debt
  L1.deficit L2.deficit L3.deficit L4.deficit L1.2bn.party_type
  L2.2bn.party_type L3.2bn.party_type L4.2bn.party_type L1.3.party_type
  L2.3.party_type L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin
  L3.win_margin L4.win_margin L1.abstentionism L2.abstentionism
  L3.abstentionism L4.abstentionism L1.pop_share014 L2.pop_share014
  L3.pop_share014 L4.pop_share014 L1.pop_share65plus L2.pop_share65plus
  L3.pop_share65plus L4.pop_share65plus
2, model(level):
  D.L.l_rpc_maintenance D.L2.l_rpc_maintenance D.Age D.2.sex D.k_12centers
  D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(45) = 41.6275
 Prob > chi2 = 0.6156

2-step moment functions, 3-step weighting matrix chi2(45) = 54.2404
 Prob > chi2 = 0.1627

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -5.7790 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = 0.0581 Prob > |z| = 0.9537

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .17274248

Step 2 f(b) = .06890894

Fitting reduced model 2:

Step 1 f(b) = 1.683e-20

Group variable: **mun_id** Number of obs = 1121

Time variable: **year** Number of groups = 81

Moment conditions: linear = 24 Obs per group: min = 11
 nonlinear = 0 avg = 13.83951
 total = 24 max = 14

(Std. err. adjusted for 81 clusters in **mun_id**)

	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_mef						
l_rpc_cap_mef						
L1.	.0867247	.0405723	2.14	0.033	.0072044	.166245
elec_t	-.2317344	.1116289	-2.08	0.038	-.4505229	-.0129458
Age	.0105457	.0167388	0.63	0.529	-.0222618	.0433532
sex						

Male	-.1306	.2806548	-0.47	0.642	-.6806734	.4194734
k_12centers	-.0037014	.0026521	-1.40	0.163	-.0088994	.0014966
gdp	6.70e-08	3.02e-08	2.22	0.027	7.78e-09	1.26e-07
interest_rate	.0260968	.0372761	0.70	0.484	-.046963	.0991565
debt	-.0168356	.01204	-1.40	0.162	-.0404336	.0067623
deficit	-1.32e-07	2.14e-07	-0.61	0.539	-5.51e-07	2.88e-07
party_type						
National	.3922967	1.353223	0.29	0.772	-2.259972	3.044565
Provincial	14.74759	17.33218	0.85	0.395	-19.22285	48.71803
win_margin	-.0143504	.0208932	-0.69	0.492	-.0553003	.0265996
abstentionism	.0694738	.0355643	1.95	0.051	-.000231	.1391785
pop_share014	.1660908	.0683684	2.43	0.015	.0320911	.3000905
pop_share65plus	.2883137	.212053	1.36	0.174	-.1273027	.70393
_cons	-5.018545	4.632654	-1.08	0.279	-14.09838	4.06129

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L1_rpc_cap_mef L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
L1.abstentionism L1.pop_share014 L1.pop_share65plus

2, model(level):

D.L1_rpc_cap_mef D.elec_t D.Age D.2.sex D.k_12centers D.gdp
D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(10) = 5.5816
Prob > chi2 = 0.8491

2-step moment functions, 3-step weighting matrix chi2(10) = 8.5844
Prob > chi2 = 0.5719

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -6.7232 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = -0.6807 Prob > |z| = 0.4960

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .65958779

Step 2 f(b) = .29741619

Fitting reduced model 2:

Step 1 f(b) = .20170946

Group variable: mun_id

Number of obs = 1121

Time variable: year

Number of groups = 81

Moment conditions: linear = 38 Obs per group: min = 11
nonlinear = 0 avg = 13.83951
total = 38 max = 14

(Std. err. adjusted for 81 clusters in mun_id)

	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_mef						
l_rpc_cap_mef	.0536447	.0431368	1.24	0.214	-.030902	.1381913
L1.						
elec_t	-.1221564	.1222511	-1.00	0.318	-.3617642	.1174515
Age	.0015754	.0150298	0.10	0.917	-.0278825	.0310334
sex						
Male	-.0406896	.3466954	-0.12	0.907	-.7202001	.6388208
k_12centers	-.0072716	.0022334	-3.26	0.001	-.011649	-.0028942
gdp	9.90e-08	2.84e-08	3.49	0.000	4.33e-08	1.55e-07

interest_rate	-.0226704	.0338497	-0.67	0.503	-.0890145	.0436737
debt	-.0214777	.0111139	-1.93	0.053	-.0432605	.0003052
deficit	-1.86e-07	1.95e-07	-0.95	0.340	-5.68e-07	1.96e-07
party_type						
National	-.3095666	.892192	-0.35	0.729	-2.058231	1.439098
Provincial	27.02998	18.49506	1.46	0.144	-9.219668	63.27962
win_margin	.0325867	.0394108	0.83	0.408	-.044657	.1098305
abstentionism	.0242296	.0393847	0.62	0.538	-.0529629	.1014221
pop_share014	.1948847	.0591081	3.30	0.001	.0790351	.3107344
pop_share65plus	-.0250205	.1926963	-0.13	0.897	-.4026983	.3526573
_cons	.3512146	4.476147	0.08	0.937	-8.421872	9.124301

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L1.rpc_cap_mef L2.L1.rpc_cap_mef L1.Age L2.Age L1.2.sex L2.2.sex
  L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
  L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
  L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
  L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
  L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
2, model(level):
  D.L1.rpc_cap_mef D.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(24) = 24.0907
 Prob > chi2 = 0.4564

2-step moment functions, 3-step weighting matrix chi2(24) = 42.6775
 Prob > chi2 = 0.0108

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -7.3579 Prob > |z| = 0.0000
 H0: no autocorrelation of order 2: z = -0.8277 Prob > |z| = 0.4079

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = 1.053866
 Step 2 f(b) = .53633551

Fitting reduced model 2:

Step 1 f(b) = .44464631

Group variable: **mun_id** Number of obs = 1121
 Time variable: **year** Number of groups = 81

Moment conditions: linear = 52 Obs per group: min = 11
 nonlinear = 0 avg = 13.83951
 total = 52 max = 14

(Std. err. adjusted for 81 clusters in **mun_id**)

	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_mef						
l_rpc_cap_mef	.071335	.045794	1.56	0.119	-.0184196	.1610897
L1.						
elec_t	-.1269782	.117299	-1.08	0.279	-.35688	.1029236
Age	-.0040264	.0142217	-0.28	0.777	-.0319004	.0238475
sex						
Male	-.1570452	.3189235	-0.49	0.622	-.7821238	.4680334
k_12centers	-.0061022	.002409	-2.53	0.011	-.0108237	-.0013807
gdp	9.30e-08	2.32e-08	4.00	0.000	4.74e-08	1.38e-07

interest_rate	-.0593653	.0367059	-1.62	0.106	-.1313075	.012577
debt	-.0271604	.0110236	-2.46	0.014	-.0487664	-.0055545
deficit	-7.11e-08	1.92e-07	-0.37	0.711	-4.47e-07	3.05e-07
party_type						
National	-.2226078	1.511414	-0.15	0.883	-3.184925	2.739709
Provincial	20.88899	17.79981	1.17	0.241	-13.99799	55.77596
win_margin	.0038032	.0193342	0.20	0.844	-.0340911	.0416975
abstentionism	.0260278	.0327049	0.80	0.426	-.0380726	.0901281
pop_share014	.167671	.0589567	2.84	0.004	.052118	.283224
pop_share65plus	.0152566	.1793589	0.09	0.932	-.3362804	.3667936
_cons	1.727938	4.340353	0.40	0.691	-6.778997	10.23487

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L1.rpc_cap_mef L2.L1.rpc_cap_mef L3.L1.rpc_cap_mef L1.Age L2.Age
 L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
 L3.k_12centers L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate
 L3.interest_rate L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit
 L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L1.3.party_type
 L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
 L1.abstentionism L2.abstentionism L3.abstentionism L1.pop_share014
 L2.pop_share014 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus
 L3.pop_share65plus

2, model(level):

D.L1.rpc_cap_mef D.elec_t D.Age D.2.sex D.k_12centers D.gdp
 D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(38) = **43.4432**
 Prob > chi2 = **0.2506**

2-step moment functions, 3-step weighting matrix chi2(38) = **58.0122**
 Prob > chi2 = **0.0198**

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-6.7868** Prob > |z| = **0.0000**

H0: no autocorrelation of order 2: z = **-0.8402** Prob > |z| = **0.4008**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **1.2289476**

Step 2 f(b) = **.64770929**

Fitting reduced model 2:

Step 1 f(b) = **.61268993**

Group variable: **mun_id** Number of obs = **1121**

Time variable: **year** Number of groups = **81**

Moment conditions: linear = **62** Obs per group: min = **11**
 nonlinear = **0** avg = **13.83951**
 total = **62** max = **14**

(Std. err. adjusted for **81** clusters in **mun_id**)

	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_mef						
l_rpc_cap_mef L1.	.098372	.0445779	2.21	0.027	.0110009	.185743
elec_t	-.2026631	.099213	-2.04	0.041	-.397117	-.0082091
Age	-.0009833	.0143573	-0.07	0.945	-.0291231	.0271565
sex						

Male	-.3338142	.2760839	-1.21	0.227	-.8749287	.2073002
k_12centers	-.0057325	.0021497	-2.67	0.008	-.0099458	-.0015192
gdp	1.00e-07	2.18e-08	4.59	0.000	5.73e-08	1.43e-07
interest_rate	-.0825605	.0358312	-2.30	0.021	-.1527884	-.0123325
debt	-.0275718	.0097834	-2.82	0.005	-.046747	-.0083966
deficit	1.53e-08	1.64e-07	0.09	0.926	-3.06e-07	3.37e-07
party_type						
National	.4787263	1.256205	0.38	0.703	-1.983389	2.940842
Provincial	13.63144	13.49524	1.01	0.312	-12.81874	40.08163
win_margin	.0004893	.0167485	0.03	0.977	-.0323371	.0333157
abstentionism	.0351549	.0264251	1.33	0.183	-.0166372	.0869471
pop_share014	.1615798	.0472023	3.42	0.001	.069065	.2540946
pop_share65plus	-.0164872	.1699165	-0.10	0.923	-.3495174	.316543
_cons	.7025524	3.710289	0.19	0.850	-6.56948	7.974585

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L.1_rpc cap_mef L2.L.1_rpc cap_mef L3.L.1_rpc cap_mef L4.L.1_rpc cap_mef
 L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex L4.2.sex
 L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp L2.gdp
 L3.gdp L4.gdp L4.interest_rate L2.debt L3.debt L4.debt L1.deficit
 L2.deficit L3.deficit L4.deficit L1.2bn.party_type L2.2bn.party_type
 L3.2bn.party_type L4.2bn.party_type L1.3.party_type L2.3.party_type
 L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin L3.win_margin
 L4.win_margin L1.abstentionism L2.abstentionism L3.abstentionism
 L4.abstentionism L1.pop_share014 L2.pop_share014 L3.pop_share014
 L4.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus
 L4.pop_share65plus

2, model(level):

D.L.1_rpc cap_mef D.elec_t D.Age D.2.sex D.k_12centers D.gdp
 D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(48) = 52.4645
 Prob > chi2 = 0.3051

2-step moment functions, 3-step weighting matrix chi2(48) = 64.0449
 Prob > chi2 = 0.0605

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -6.8026 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = -0.6336 Prob > |z| = 0.5264

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .2423741

Step 2 f(b) = .14740757

Fitting reduced model 2:

Step 1 f(b) = 1.208e-19

Group variable: mun_id

Number of obs = 1037

Time variable: year

Number of groups = 81

Moment conditions: linear = 25 Obs per group: min = 9
 nonlinear = 0 avg = 12.80247
 total = 25 max = 13

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_cap_mef	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_mef						
L1.	.1089078	.0663364	1.64	0.101	-.0211091	.2389246
L2.	.0471829	.0607237	0.78	0.437	-.0718335	.1661992
elec_t	-.0988398	.1432136	-0.69	0.490	-.3795334	.1818538
Age	-.0000445	.0196626	-0.00	0.998	-.0385825	.0384934
sex						
Male	.1568021	.3323945	0.47	0.637	-.4946791	.8082833
k_12centers	-.0031367	.002998	-1.05	0.295	-.0090127	.0027393
gdp	1.36e-08	6.43e-08	0.21	0.833	-1.13e-07	1.40e-07
interest_rate	.0488678	.0441868	1.11	0.269	-.0377367	.1354722
debt	-.0069249	.0235393	-0.29	0.769	-.0530611	.0392113
deficit	-1.74e-07	1.67e-07	-1.04	0.298	-5.03e-07	1.54e-07
party_type						
National	-.7173333	1.867573	-0.38	0.701	-4.37771	2.943043
Provincial	17.23948	18.43055	0.94	0.350	-18.88373	53.36269
win_margin	.0201496	.0199399	1.01	0.312	-.018932	.0592311
abstentionism	.0195276	.0459862	0.42	0.671	-.0706036	.1096589
pop_share014	.1301716	.0881412	1.48	0.140	-.042582	.3029252
pop_share65plus	.2438863	.2433812	1.00	0.316	-.2331321	.7209047
_cons	.522917	5.737741	0.09	0.927	-10.72285	11.76868

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L2.1_rpc_cap_mef L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
  L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
  L1.abstentionism L1.pop_share014 L1.pop_share65plus
2, model(level):
  D.L1_rpc_cap_mef D.L2.1_rpc_cap_mef D.elec_t D.Age D.2.sex D.k_12centers
  D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(10) = **11.9400**
 Prob > chi2 = **0.2891**

2-step moment functions, 3-step weighting matrix chi2(10) = **16.7042**
 Prob > chi2 = **0.0812**

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-6.4913** Prob > |z| = **0.0000**H0: no autocorrelation of order 2: z = **-1.8000** Prob > |z| = **0.0719**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.65661751**Step 2 f(b) = **.3224525**

Fitting reduced model 2:

Step 1 f(b) = **.25141746**Group variable: **mun_id**Number of obs = **1037**Time variable: **year**Number of groups = **81**

Moment conditions: linear = **39** Obs per group: min = **9**
 nonlinear = **0** avg = **12.80247**
 total = **39** max = **13**

(Std. err. adjusted for 81 clusters in `mun_id`)

<code>l_rpc_cap_mef</code>	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
<code>l_rpc_cap_mef</code>						
L1.	.1358626	.0646456	2.10	0.036	.0091596	.2625656
L2.	.0785842	.0596747	1.32	0.188	-.0383761	.1955445
elec_t	-.198465	.115206	-1.72	0.085	-.4242646	.0273345
Age	.0023289	.0150904	0.15	0.877	-.0272478	.0319056
sex						
Male	.0263786	.2528473	0.10	0.917	-.4691929	.5219501
k_12centers	-.0064611	.0022936	-2.82	0.005	-.0109565	-.0019658
gdp	1.18e-07	3.19e-08	3.71	0.000	5.59e-08	1.81e-07
interest_rate	-.0351362	.0337851	-1.04	0.298	-.1013537	.0310814
debt	-.033458	.0140772	-2.38	0.017	-.0610489	-.0058671
deficit	-9.83e-08	1.63e-07	-0.60	0.548	-4.19e-07	2.22e-07
party_type						
National	-.5732185	1.240497	-0.46	0.644	-3.004549	1.858112
Provincial	27.53755	21.85447	1.26	0.208	-15.29641	70.37152
win_margin	.0300446	.029093	1.03	0.302	-.0269765	.0870658
abstentionism	.0395211	.0334199	1.18	0.237	-.0259807	.1050229
pop_share014	.1934332	.0781969	2.47	0.013	.04017	.3466963
pop_share65plus	.0581382	.256715	0.23	0.821	-.445014	.5612903
_cons	-1.915665	5.357786	-0.36	0.721	-12.41673	8.585403

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L2.1_rpc_cap_mef L2.L2.1_rpc_cap_mef L1.Age L2.Age L1.2.sex L2.2.sex
  L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
  L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
  L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
  L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
  L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
2, model(level):
  D.L.1_rpc_cap_mef D.L2.1_rpc_cap_mef D.elec_t D.Age D.2.sex D.k_12centers
  D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(24)    =    26.1187
                                                        Prob > chi2 =    0.3472

```

```

2-step moment functions, 3-step weighting matrix      chi2(24)    =    39.0314
                                                        Prob > chi2 =    0.0271

```

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -6.8236 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = -1.9098 Prob > |z| = 0.0562

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .84751019

Step 2 f(b) = .51169067

Fitting reduced model 2:

Step 1 f(b) = .42373834

Group variable: `mun_id`

Number of obs = 1037

Time variable: `year`

Number of groups = 81

Moment conditions: linear = 53 Obs per group: min = 9
 nonlinear = 0 avg = 12.80247
 total = 53 max = 13

(Std. err. adjusted for 81 clusters in mun_id)

l_rpc_cap_mef	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_mef						
L1.	.1571048	.0485167	3.24	0.001	.0620138	.2521958
L2.	.0958489	.0463714	2.07	0.039	.0049627	.1867351
elec_t	-.1567815	.1059749	-1.48	0.139	-.3644884	.0509254
Age	-.0037624	.0152146	-0.25	0.805	-.0335823	.0260576
sex						
Male	-.1225295	.2329417	-0.53	0.599	-.5790869	.3340278
k_12centers	-.0053617	.0021041	-2.55	0.011	-.0094857	-.0012377
gdp	1.11e-07	2.91e-08	3.83	0.000	5.45e-08	1.68e-07
interest_rate	-.0419081	.0345046	-1.21	0.225	-.1095358	.0257197
debt	-.033103	.0155833	-2.12	0.034	-.0636457	-.0025603
deficit	-1.15e-07	1.70e-07	-0.67	0.500	-4.49e-07	2.19e-07
party_type						
National	-.2962531	1.315	-0.23	0.822	-2.873607	2.2811
Provincial	15.35319	15.94249	0.96	0.336	-15.89352	46.5999
win_margin	.0297496	.0223246	1.33	0.183	-.0140058	.0735049
abstentionism	.0200632	.0277727	0.72	0.470	-.0343702	.0744966
pop_share014	.1715059	.0530028	3.24	0.001	.0676223	.2753896
pop_share65plus	-.0100218	.1999706	-0.05	0.960	-.401957	.3819133
_cons	.291805	4.115311	0.07	0.943	-7.774057	8.357667

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L2.1_rpc_cap_mef L2.L2.1_rpc_cap_mef L3.L2.1_rpc_cap_mef L1.Age L2.Age
  L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
  L3.k_12centers L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate
  L3.interest_rate L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit
  L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L1.3.party_type
  L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
  L1.abstentionism L2.abstentionism L3.abstentionism L1.pop_share014
  L2.pop_share014 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus
  L3.pop_share65plus
2, model(level):
  D.L.1_rpc_cap_mef D.L2.1_rpc_cap_mef D.elec_t D.Age D.2.sex D.k_12centers
  D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(38) = 41.4469
 Prob > chi2 = 0.3227

2-step moment functions, 3-step weighting matrix chi2(38) = 50.9013
 Prob > chi2 = 0.0787

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -6.8087 Prob > |z| = 0.0000
 H0: no autocorrelation of order 2: z = -2.1328 Prob > |z| = 0.0329

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = 1.0417091
 Step 2 f(b) = .56243455

Fitting reduced model 2:

Step 1 f(b) = .47172129

Group variable: **mun_id** Number of obs = 1037
 Time variable: **year** Number of groups = 81

Moment conditions: linear = 63 Obs per group: min = 9
 nonlinear = 0 avg = 12.80247
 total = 63 max = 13

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_cap_mef	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_mef						
L1.	.1723799	.0485325	3.55	0.000	.077258	.2675017
L2.	.0963797	.0430691	2.24	0.025	.0119658	.1807936
elec_t	-.1785999	.0909366	-1.96	0.050	-.3568323	-.0003675
Age	-.0003571	.0126855	-0.03	0.978	-.0252202	.0245059
sex						
Male	-.2295566	.181811	-1.26	0.207	-.5858997	.1267865
k_12centers	-.0058157	.0017623	-3.30	0.001	-.0092697	-.0023616
gdp	1.20e-07	2.46e-08	4.87	0.000	7.17e-08	1.68e-07
interest_rate	-.0657287	.0308101	-2.13	0.033	-.1261155	-.005342
debt	-.0332525	.0129172	-2.57	0.010	-.0585697	-.0079352
deficit	-5.26e-08	1.48e-07	-0.35	0.723	-3.43e-07	2.38e-07
party_type						
National	.1254095	1.109989	0.11	0.910	-2.050129	2.300948
Provincial	9.394888	10.69434	0.88	0.380	-11.56563	30.3554
win_margin	.0156551	.016624	0.94	0.346	-.0169274	.0482375
abstentionism	.0282162	.0250353	1.13	0.260	-.0208522	.0772845
pop_share014	.1640285	.0443258	3.70	0.000	.0771515	.2509056
pop_share65plus	-.0851085	.1429694	-0.60	0.552	-.3653233	.1951063
_cons	.0260265	3.406143	0.01	0.994	-6.649891	6.701944

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.1_rpc_cap_mef L2.L2.1_rpc_cap_mef L3.L2.1_rpc_cap_mef
 L4.L2.1_rpc_cap_mef L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex
 L4.2.sex L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp
 L2.gdp L3.gdp L4.gdp L2.interest_rate L2.debt L3.debt L4.debt L1.deficit
 L2.deficit L3.deficit L4.deficit L1.2bn.party_type L2.2bn.party_type
 L3.2bn.party_type L4.2bn.party_type L1.3.party_type L2.3.party_type
 L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin L3.win_margin
 L4.win_margin L1.abstentionism L2.abstentionism L3.abstentionism
 L4.abstentionism L1.pop_share014 L2.pop_share014 L3.pop_share014
 L4.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus
 L4.pop_share65plus

2, model(level):

D.L.1_rpc_cap_mef D.L2.1_rpc_cap_mef D.elec_t D.Age D.2.sex D.k_12centers
 D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(48) = 45.5572
 Prob > chi2 = 0.5735

2-step moment functions, 3-step weighting matrix chi2(48) = 56.7904
 Prob > chi2 = 0.1802

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -6.7810 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = -2.0497 Prob > |z| = 0.0404

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .17023409

Step 2 f(b) = .0696934

Fitting reduced model 2:

Step 1 f(b) = 6.765e-20

Group variable: **mun_id** Number of obs = 1121Time variable: **year** Number of groups = 81

Moment conditions:	linear =	25	Obs per group:	min =	11
	nonlinear =	0		avg =	13.83951
	total =	25		max =	14

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_cap_mef	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_mef						
L1.	.0829113	.0402635	2.06	0.039	.0039964	.1618263
elec_t						
--.	-.3371018	.1894221	-1.78	0.075	-.7083622	.0341587
L1.	-.1236656	.1713826	-0.72	0.471	-.4595694	.2122381
Age	.0111636	.0166738	0.67	0.503	-.0215164	.0438437
sex						
Male	-.1351147	.2762969	-0.49	0.625	-.6766466	.4064172
k_12centers	-.003617	.002654	-1.36	0.173	-.0088186	.0015847
gdp	6.98e-08	2.99e-08	2.34	0.019	1.13e-08	1.28e-07
interest_rate	-.0000127	.0484845	-0.00	1.000	-.0950405	.0950152
debt	-.0211499	.0149939	-1.41	0.158	-.0505374	.0082375
deficit	-2.05e-08	2.88e-07	-0.07	0.943	-5.85e-07	5.44e-07
party_type						
National	.4606375	1.3428	0.34	0.732	-2.171203	3.092478
Provincial	14.67049	17.21513	0.85	0.394	-19.07055	48.41153
win_margin	-.0142456	.0206604	-0.69	0.491	-.0547393	.0262481
abstentionism	.0668262	.0343104	1.95	0.051	-.0004211	.1340734
pop_share014	.1566686	.0681506	2.30	0.022	.0230959	.2902412
pop_share65plus	.289205	.2078724	1.39	0.164	-.1182173	.6966273
_cons	-4.177349	4.353271	-0.96	0.337	-12.7096	4.354906

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L1_rpc_cap_mef L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate

L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin

L1.abstentionism L1.pop_share014 L1.pop_share65plus

2, model(level):

D.L1_rpc_cap_mef D.elec_t D.L.elec_t D.Age D.2.sex D.k_12centers D.gdp

D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix	chi2(10)	=	5.6452
	Prob > chi2	=	0.8441

2-step moment functions, 3-step weighting matrix	chi2(10)	=	8.7703
	Prob > chi2	=	0.5540

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -6.7413 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = -0.7910 Prob > |z| = 0.4290

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .69655136

Step 2 f(b) = .36448988

Fitting reduced model 2:

Step 1 f(b) = .19738893

Group variable: **mun_id** Number of obs = 1121Time variable: **year** Number of groups = 81

Moment conditions:	linear =	39	Obs per group:	min =	11
	nonlinear =	0		avg =	13.83951
	total =	39		max =	14

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_cap_mef	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_mef						
L1.	.0516204	.0465862	1.11	0.268	-.0396868	.1429276
elec_t						
--.	-.1707888	.1751579	-0.98	0.330	-.5140919	.1725144
L1.	-.0945795	.1246741	-0.76	0.448	-.3389363	.1497772
Age	.0048621	.0151362	0.32	0.748	-.0248042	.0345285
sex						
Male	-.2285599	.4071381	-0.56	0.575	-1.026536	.5694162
k_12centers	-.0061179	.0024838	-2.46	0.014	-.0109861	-.0012498
gdp	8.72e-08	2.57e-08	3.39	0.001	3.68e-08	1.38e-07
interest_rate	-.0423421	.0487542	-0.87	0.385	-.1378986	.0532145
debt	-.0289142	.0144345	-2.00	0.045	-.0572054	-.000623
deficit	-4.88e-09	2.49e-07	-0.02	0.984	-4.93e-07	4.83e-07
party_type						
National	-.2441186	.9765587	-0.25	0.803	-2.158138	1.669901
Provincial	29.21209	20.29318	1.44	0.150	-10.56182	68.986
win_margin	.0176147	.0403634	0.44	0.663	-.0614961	.0967255
abstentionism	.0389056	.0494462	0.79	0.431	-.0580073	.1358184
pop_share014	.1475346	.0588786	2.51	0.012	.0321346	.2629345
pop_share65plus	.0852157	.2433262	0.35	0.726	-.3916948	.5621263
_cons	.7955429	4.848105	0.16	0.870	-8.706568	10.29765

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L1.rpc_cap_mef L2.L1.rpc_cap_mef L1.Age L2.Age L1.2.sex L2.2.sex
 L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
 L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
 L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
 L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
 L2.pop_share014 L1.pop_share65plus L2.pop_share65plus

2, model(level):

D.L1.rpc_cap_mef D.elec_t D.L.elec_t D.Age D.2.sex D.k_12centers D.gdp
 D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix	chi2(24)	=	29.5237
	Prob > chi2	=	0.2010

2-step moment functions, 3-step weighting matrix	chi2(24)	=	49.5522
	Prob > chi2	=	0.0016

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-7.1050** Prob > |z| = **0.0000**
H0: no autocorrelation of order 2: z = **-0.9227** Prob > |z| = **0.3562**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **1.0113713**
Step 2 f(b) = **.54926315**

Fitting reduced model 2:

Step 1 f(b) = **.45293144**

Group variable: **mun_id** Number of obs = **1121**
Time variable: **year** Number of groups = **81**

Moment conditions: linear = **52** Obs per group: min = **11**
nonlinear = **0** avg = **13.83951**
total = **52** max = **14**

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_cap_mef	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_mef						
L1.	.0711904	.0448713	1.59	0.113	-.0167558	.1591366
elec_t						
--.	-.1886671	.183845	-1.03	0.305	-.5489966	.1716625
L1.	-.1081866	.1532891	-0.71	0.480	-.4086276	.1922545
Age	-.0036509	.0175381	-0.21	0.835	-.0380249	.0307231
sex						
Male	-.1746666	.3267091	-0.53	0.593	-.8150047	.4656715
k_12centers	-.0052635	.002449	-2.15	0.032	-.0100634	-.0004636
gdp	8.93e-08	2.40e-08	3.73	0.000	4.24e-08	1.36e-07
interest_rate	-.0734834	.0505283	-1.45	0.146	-.1725171	.0255503
debt	-.0305892	.0146857	-2.08	0.037	-.0593727	-.0018057
deficit	6.74e-09	2.77e-07	0.02	0.981	-5.35e-07	5.49e-07
party_type						
National	-.2879918	1.440338	-0.20	0.842	-3.111003	2.535019
Provincial	21.94985	17.86213	1.23	0.219	-13.05928	56.95899
win_margin	.0020273	.0233289	0.09	0.931	-.0436966	.0477511
abstentionism	.0332052	.0382025	0.87	0.385	-.0416703	.1080806
pop_share014	.1523285	.0623246	2.44	0.015	.0301746	.2744824
pop_share65plus	.074051	.2167638	0.34	0.733	-.3507982	.4989002
_cons	1.711157	4.536576	0.38	0.706	-7.180368	10.60268

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L1_rpc_cap_mef L2.L1_rpc_cap_mef L3.L1_rpc_cap_mef L1.Age L2.Age
L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
L3.k_12centers L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate
L3.interest_rate L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit
L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L1.3.party_type
L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
L1.abstentionism L2.abstentionism L3.abstentionism L1.pop_share014
L2.pop_share014 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus
L3.pop_share65plus

2, model(level):

D.L1_rpc_cap_mef D.elec_t D.Age D.2.sex D.k_12centers D.gdp
D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix $\chi^2(37) = 44.4903$
 Prob > $\chi^2 = 0.1855$

2-step moment functions, 3-step weighting matrix $\chi^2(37) = 60.3300$
 Prob > $\chi^2 = 0.0091$

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: $z = -6.8346$ Prob > $|z| = 0.0000$
 H0: no autocorrelation of order 2: $z = -0.9146$ Prob > $|z| = 0.3604$

Generalized method of moments estimation

Fitting full model:

Step 1 $f(b) = 1.1828847$
 Step 2 $f(b) = .65917885$

Fitting reduced model 2:

Step 1 $f(b) = .62992679$

Group variable: **mun_id** Number of obs = 1121
 Time variable: **year** Number of groups = 81

Moment conditions: linear = 62 Obs per group: min = 11
 nonlinear = 0 avg = 13.83951
 total = 62 max = 14

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_cap_mef	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_mef						
L1.	.1011965	.0436239	2.32	0.020	.0156952	.1866979
elec_t						
--.	-.27698	.1354135	-2.05	0.041	-.5423855	-.0115745
L1.	-.122318	.1379762	-0.89	0.375	-.3927463	.1481103
Age	.0002872	.0156874	0.02	0.985	-.0304596	.0310341
sex						
Male	-.3352238	.2869953	-1.17	0.243	-.8977242	.2272767
k_12centers	-.004853	.0020611	-2.35	0.019	-.0088926	-.0008133
gdp	9.68e-08	2.28e-08	4.24	0.000	5.21e-08	1.42e-07
interest_rate	-.0996812	.047674	-2.09	0.037	-.1931206	-.0062418
debt	-.0322841	.0115913	-2.79	0.005	-.0550025	-.0095656
deficit	1.03e-07	2.19e-07	0.47	0.638	-3.27e-07	5.33e-07
party_type						
National	.4161348	1.304278	0.32	0.750	-2.140204	2.972474
Provincial	13.93768	13.26881	1.05	0.294	-12.0687	39.94406
win_margin	.0005861	.0178874	0.03	0.974	-.0344726	.0356447
abstentionism	.0380815	.0301493	1.26	0.207	-.02101	.097173
pop_share014	.1438529	.0510989	2.82	0.005	.0437009	.2440049
pop_share65plus	.0287147	.1916028	0.15	0.881	-.3468198	.4042492
_cons	1.122011	3.756888	0.30	0.765	-6.241353	8.485376

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L1.l_rpc_cap_mef L2.L1.l_rpc_cap_mef L3.L1.l_rpc_cap_mef L4.L1.l_rpc_cap_mef
 L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex L4.2.sex
 L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp L2.gdp
 L3.gdp L4.gdp L1.interest_rate L2.debt L3.debt L4.debt L1.deficit
 L2.deficit L3.deficit L4.deficit L1.2bn.party_type L2.2bn.party_type
 L3.2bn.party_type L4.2bn.party_type L1.3.party_type L2.3.party_type
 L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin L3.win_margin
 L4.win_margin L1.abstentionism L2.abstentionism L3.abstentionism
 L4.abstentionism L1.pop_share014 L2.pop_share014 L3.pop_share014
 L4.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus
 L4.pop_share65plus

2, model(level):

```

D.L1_rpc_cap_mef D.elec_t D.Age D.2.sex D.k_12centers D.gdp
D.interest_rate D.debt D.deficit
3, model(level):
    _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(47)      =    53.3935
                                                         Prob > chi2    =    0.2420

```

```

2-step moment functions, 3-step weighting matrix      chi2(47)      =    66.3845
                                                         Prob > chi2    =    0.0327

```

Arellano-Bond test for autocorrelation of the first-differenced residuals

```

H0: no autocorrelation of order 1:      z =    -6.8719      Prob > |z|    =    0.0000
H0: no autocorrelation of order 2:      z =    -0.6891      Prob > |z|    =    0.4908

```

Generalized method of moments estimation

Fitting full model:

```

Step 1      f(b) =    .24545888
Step 2      f(b) =    .14935122

```

```

Group variable: mun_id      Number of obs      =    1037
Time variable: year        Number of groups   =     81

```

```

Moment conditions:      linear =     26      Obs per group:      min =     9
                        nonlinear =    0      avg =    12.80247
                        total =     26      max =     13

```

(Std. err. adjusted for 81 clusters in mun_id)

l_rpc_cap_mef	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_mef						
L1.	.0970902	.0632908	1.53	0.125	-.0269575	.2211379
L2.	.0466959	.0593108	0.79	0.431	-.0695511	.1629428
elec_t						
--.	-.2234665	.1718379	-1.30	0.193	-.5602626	.1133295
L1.	-.1632596	.144024	-1.13	0.257	-.4455414	.1190222
Age	.0007582	.0198927	0.04	0.970	-.0382307	.0397471
sex						
Male	.1610626	.3227215	0.50	0.618	-.4714599	.793585
k_12centers	-.0032473	.002877	-1.13	0.259	-.0088862	.0023916
gdp	1.24e-08	5.95e-08	0.21	0.835	-1.04e-07	1.29e-07
interest_rate	.0169797	.0465111	0.37	0.715	-.0741804	.1081398
debt	-.0089486	.0226757	-0.39	0.693	-.0533922	.0354951
deficit	-5.09e-08	1.94e-07	-0.26	0.793	-4.31e-07	3.29e-07
party_type						
National	-.6509072	1.856334	-0.35	0.726	-4.289256	2.987441
Provincial	17.59596	18.26489	0.96	0.335	-18.20258	53.39449
win_margin	.0217832	.0192766	1.13	0.258	-.0159982	.0595646
abstentionism	.0126901	.0451428	0.28	0.779	-.0757883	.1011684
pop_share014	.1160099	.0783973	1.48	0.139	-.0376459	.2696658
pop_share65plus	.2102859	.2176396	0.97	0.334	-.2162799	.6368516
_cons	2.109655	5.055558	0.42	0.676	-7.799056	12.01837

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
    L1.L2.l_rpc_cap_mef L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
    L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
    L1.abstentionism L1.pop_share014 L1.pop_share65plus
2, model(level):
    D.L1_rpc_cap_mef D.L2.l_rpc_cap_mef D.elec_t D.L.elec_t D.Age D.2.sex
    D.k_12centers D.gdp D.interest_rate D.debt D.deficit

```

```
3, model(level):
    _cons
```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

```
2-step moment functions, 2-step weighting matrix      chi2(10)      =    12.0974
                                                         Prob > chi2    =    0.2786
```

```
2-step moment functions, 3-step weighting matrix      chi2(10)      =    16.9709
                                                         Prob > chi2    =    0.0750
```

Arellano-Bond test for autocorrelation of the first-differenced residuals

```
H0: no autocorrelation of order 1:      z =    -6.5914      Prob > |z|    =    0.0000
H0: no autocorrelation of order 2:      z =    -2.2059      Prob > |z|    =    0.0274
```

Generalized method of moments estimation

Fitting full model:

```
Step 1          f(b) =    .6593222
Step 2          f(b) =    .34099243
```

Fitting reduced model 2:

```
Step 1          f(b) =    .23594985
```

```
Group variable: mun_id          Number of obs      =    1037
Time variable: year            Number of groups   =    81
```

```
Moment conditions:      linear =    40      Obs per group:   min =    9
                        nonlinear =    0      avg =   12.80247
                        total =    40      max =   13
```

(Std. err. adjusted for 81 clusters in mun_id)

l_rpc_cap_mef	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_mef						
L1.	.142571	.0622277	2.29	0.022	.0206069	.2645351
L2.	.0826789	.0592488	1.40	0.163	-.0334466	.1988044
elec_t						
L1.	-.2009543	.1215307	-1.65	0.098	-.4391501	.0372415
L2.	-.0530244	.1194793	-0.44	0.657	-.2871995	.1811506
Age	.0047337	.0152673	0.31	0.757	-.0251898	.0346571
sex						
Male	.0086263	.2524722	0.03	0.973	-.4862102	.5034628
k_12centers	-.0058877	.0021919	-2.69	0.007	-.0101838	-.0015916
gdp	1.07e-07	3.01e-08	3.56	0.000	4.83e-08	1.66e-07
interest_rate	-.0400634	.0393127	-1.02	0.308	-.1171149	.0369882
debt	-.0351273	.0144366	-2.43	0.015	-.0634225	-.0068321
deficit	-3.77e-08	1.87e-07	-0.20	0.841	-4.05e-07	3.30e-07
party_type						
National	-.4212704	1.313546	-0.32	0.748	-2.995773	2.153233
Provincial	27.38894	20.87687	1.31	0.190	-13.52897	68.30686
win_margin	.0273034	.0258765	1.06	0.291	-.0234136	.0780203
abstentionism	.0378551	.0318154	1.19	0.234	-.0245018	.1002121
pop_share014	.1754673	.0732922	2.39	0.017	.0318173	.3191173
pop_share65plus	.1052351	.2570004	0.41	0.682	-.3984764	.6089465
_cons	-1.590878	5.111897	-0.31	0.756	-11.61001	8.428257

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
```

```
    L1.L2.1_rpc_cap_mef L2.L2.1_rpc_cap_mef L1.Age L2.Age L1.2.sex L2.2.sex
    L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
    L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
    L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
    L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
```



```

L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
2, model(level):
  D.L1_rpc_cap_mef D.L2.1_rpc_cap_mef D.elec_t D.L.elec_t D.Age D.2.sex
  D.k_12centers D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(24)      =    27.6204
                                                        Prob > chi2   =    0.2764

```

```

2-step moment functions, 3-step weighting matrix      chi2(24)      =    42.8154
                                                        Prob > chi2   =    0.0104

```

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = **-6.8215** Prob > |z| = **0.0000**
H0: no autocorrelation of order 2: z = **-2.0066** Prob > |z| = **0.0448**

Generalized method of moments estimation

```

Fitting full model:
Step 1          f(b) = .84256793
Step 2          f(b) = .51187992

```

```

Fitting reduced model 2:
Step 1          f(b) = .40174666

```

```

Group variable: mun_id          Number of obs      =    1037
Time variable: year          Number of groups   =     81

```

```

Moment conditions:      linear =    53      Obs per group:   min =     9
                      nonlinear =    0      avg =   12.80247
                      total =    53      max =    13

```

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_cap_mef	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_mef						
L1.	.1574842	.0472445	3.33	0.001	.0648866	.2500818
L2.	.0934487	.0460845	2.03	0.043	.0031248	.1837726
elec_t						
--.	-.1597202	.1176887	-1.36	0.175	-.3903858	.0709453
L1.	.0034159	.1299057	0.03	0.979	-.2511945	.2580264
Age	-.004838	.0158433	-0.31	0.760	-.0358903	.0262143
sex						
Male	-.0915518	.2279538	-0.40	0.688	-.538333	.3552294
k_12centers	-.0053991	.0021102	-2.56	0.011	-.009535	-.0012632
gdp	1.14e-07	3.16e-08	3.62	0.000	5.25e-08	1.76e-07
interest_rate	-.0404837	.0409752	-0.99	0.323	-.1207937	.0398263
debt	-.033595	.0156226	-2.15	0.032	-.0642148	-.0029753
deficit	-1.16e-07	1.98e-07	-0.59	0.558	-5.03e-07	2.71e-07
party_type						
National	-.4367207	1.380891	-0.32	0.752	-3.143218	2.269777
Provincial	15.00354	15.5981	0.96	0.336	-15.56818	45.57526
win_margin	.030363	.0222937	1.36	0.173	-.0133318	.0740579
abstentionism	.0221347	.0278673	0.79	0.427	-.0324842	.0767535
pop_share014	.1739387	.0586274	2.97	0.003	.059031	.2888463
pop_share65plus	-.0049973	.200245	-0.02	0.980	-.3974703	.3874756
_cons	.1851281	4.194308	0.04	0.965	-8.035564	8.40582

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L2.1_rpc_cap_mef L2.L2.1_rpc_cap_mef L3.L2.1_rpc_cap_mef L1.Age L2.Age

```

```

L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
L3.k_12centers L1.gdp L2.gdp L3.gdp L1.interest_rate L3.interest_rate
L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit L1.2bn.party_type
L2.2bn.party_type L3.2bn.party_type L1.3.party_type L2.3.party_type
L3.3.party_type L1.win_margin L2.win_margin L3.win_margin L1.abstentionism
L2.abstentionism L3.abstentionism L1.pop_share014 L2.pop_share014
L3.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus
2, model(level):
D.L1_rpc_cap_mef D.L2.1_rpc_cap_mef D.elec_t D.L.elec_t D.Age D.2.sex
D.k_12centers D.gdp D.interest_rate D.debt D.deficit
3, model(level):
_cons

```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(37)      =    41.4623
                                                        Prob > chi2   =    0.2823

```

```

2-step moment functions, 3-step weighting matrix      chi2(37)      =    50.9541
                                                        Prob > chi2   =    0.0631

```

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-6.8094** Prob > |z| = **0.0000**

H0: no autocorrelation of order 2: z = **-2.0506** Prob > |z| = **0.0403**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **1.0342683**

Step 2 f(b) = **.56992314**

Fitting reduced model 2:

Step 1 f(b) = **.47453622**

Group variable: **mun_id**

Number of obs = **1037**

Time variable: **year**

Number of groups = **81**

```

Moment conditions:      linear =    63      Obs per group:  min =    9
                      nonlinear =    0                      avg =  12.80247
                      total =    63                      max =   13

```

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_cap_mef	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_mef						
L1.	.1728332	.0480221	3.60	0.000	.0787116	.2669547
L2.	.0957951	.0435973	2.20	0.028	.010346	.1812442
elec_t						
--.	-.19904	.1084253	-1.84	0.066	-.4115496	.0134696
L1.	-.0358655	.1246818	-0.29	0.774	-.2802374	.2085063
Age	-.0003382	.0133762	-0.03	0.980	-.026555	.0258786
sex						
Male	-.2151402	.1812555	-1.19	0.235	-.5703944	.140114
k_12centers	-.0056692	.0017619	-3.22	0.001	-.0091225	-.0022158
gdp	1.19e-07	2.66e-08	4.48	0.000	6.69e-08	1.71e-07
interest_rate	-.0717126	.0362109	-1.98	0.048	-.1426848	-.0007405
debt	-.0340803	.0132944	-2.56	0.010	-.0601369	-.0080236
deficit	-3.29e-08	1.89e-07	-0.17	0.862	-4.04e-07	3.38e-07
party_type						
National	.0891184	1.157184	0.08	0.939	-2.17892	2.357156
Provincial	9.105815	10.2053	0.89	0.372	-10.8962	29.10784
win_margin	.0150198	.0164638	0.91	0.362	-.0172487	.0472883
abstentionism	.029675	.0245221	1.21	0.226	-.0183875	.0777375
pop_share014	.1606738	.0496148	3.24	0.001	.0634306	.2579171

pop_share65plus	-.0749906	.1451359	-0.52	0.605	-.3594518	.2094706
_cons	.1113296	3.415338	0.03	0.974	-6.582611	6.80527

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L2.l_rpc_cap_mef L2.L2.l_rpc_cap_mef L3.L2.l_rpc_cap_mef
  L4.L2.l_rpc_cap_mef L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex
  L4.2.sex L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp
  L2.gdp L3.gdp L4.gdp L2.interest_rate L2.debt L3.debt L4.debt L1.deficit
  L2.deficit L3.deficit L4.deficit L1.2bn.party_type L2.2bn.party_type
  L3.2bn.party_type L4.2bn.party_type L1.3.party_type L2.3.party_type
  L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin L3.win_margin
  L4.win_margin L1.abstentionism L2.abstentionism L3.abstentionism
  L4.abstentionism L1.pop_share014 L2.pop_share014 L3.pop_share014
  L4.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus
  L4.pop_share65plus
2, model(level):
  D.L.l_rpc_cap_mef D.L2.l_rpc_cap_mef D.L.elec_t D.Age D.2.sex D.k_12centers
  D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(47) = 46.1638
 Prob > chi2 = 0.5071

2-step moment functions, 3-step weighting matrix chi2(47) = 57.5555
 Prob > chi2 = 0.1392

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -6.7946 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = -2.0698 Prob > |z| = 0.0385

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .52617237

Step 2 f(b) = .27300471

Fitting reduced model 2:

Step 1 f(b) = 6.460e-19

Group variable: mun_id Number of obs = 1050

Time variable: year Number of groups = 81

Moment conditions: linear = 24 Obs per group: min = 5
 nonlinear = 0 avg = 12.96296
 total = 24 max = 14

(Std. err. adjusted for 81 clusters in mun_id)

l_rpc_cap_cai	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_cai						
L1.	.3945579	.0888736	4.44	0.000	.2203688	.568747
elec_t	.0596564	.1305113	0.46	0.648	-.1961411	.315454
Age	.004555	.0226809	0.20	0.841	-.0398987	.0490087
sex						
Male	.4053173	.3730535	1.09	0.277	-.3258542	1.136489
k_12centers	.0007834	.0029289	0.27	0.789	-.0049571	.006524
gdp	2.52e-08	3.86e-08	0.65	0.514	-5.05e-08	1.01e-07
interest_rate	.053347	.0515892	1.03	0.301	-.0477659	.15446
debt	-.01203	.012739	-0.94	0.345	-.036998	.012938
deficit	5.58e-08	2.07e-07	0.27	0.788	-3.51e-07	4.62e-07
party_type						
National	.8441989	2.247992	0.38	0.707	-3.561784	5.250182

Provincial	-5.355854	16.30604	-0.33	0.743	-37.31511	26.6034
win_margin	.0090625	.0326547	0.28	0.781	-.0549397	.0730646
abstentionism	-.0402908	.0271351	-1.48	0.138	-.0934746	.0128931
pop_share014	.0728489	.052891	1.38	0.168	-.0308157	.1765134
pop_share65plus	.2526355	.2005217	1.26	0.208	-.1403798	.6456508
_cons	2.606232	3.864762	0.67	0.500	-4.968562	10.18103

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L1_rpc_cap_cai L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
  L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
  L1.abstentionism L1.pop_share014 L1.pop_share65plus
2, model(level):
  D.L1_rpc_cap_cai D.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(10) = 22.1134
 Prob > chi2 = 0.0145

2-step moment functions, 3-step weighting matrix chi2(10) = 22.8380
 Prob > chi2 = 0.0114

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -4.8614 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = 0.5841 Prob > |z| = 0.5591

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .74562228

Step 2 f(b) = .36675559

Fitting reduced model 2:

Step 1 f(b) = .16466103

Group variable: **mun_id** Number of obs = 1050

Time variable: **year** Number of groups = 81

Moment conditions: linear = 38 Obs per group: min = 5
 nonlinear = 0 avg = 12.96296
 total = 38 max = 14

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_cap_cai	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_cai						
L1.	.4088052	.0848677	4.82	0.000	.2424675	.5751428
elec_t	-.0063622	.1181864	-0.05	0.957	-.2380032	.2252789
Age	.0106107	.0200581	0.53	0.597	-.0287024	.0499237
sex						
Male	.1404618	.3086882	0.46	0.649	-.4645559	.7454795
k_12centers	.0001446	.0022064	0.07	0.948	-.0041799	.0044691
gdp	5.18e-08	2.71e-08	1.91	0.056	-1.36e-09	1.05e-07
interest_rate	.0363457	.0452128	0.80	0.421	-.0522698	.1249611
debt	-.0126371	.0105247	-1.20	0.230	-.0332652	.007991
deficit	1.10e-08	1.63e-07	0.07	0.946	-3.09e-07	3.31e-07
party_type						
National	.4726353	1.548052	0.31	0.760	-2.56149	3.506761
Provincial	-4.008899	12.69768	-0.32	0.752	-28.8959	20.8781
win_margin	.0124731	.0229141	0.54	0.586	-.0324376	.0573839

abstentionism	-.0308136	.0214108	-1.44	0.150	-.072778	.0111509
pop_share014	.0874354	.0372051	2.35	0.019	.0145147	.160356
pop_share65plus	.1169182	.1464046	0.80	0.425	-.1700296	.403866
_cons	2.321042	2.896414	0.80	0.423	-3.355825	7.997909

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L1_rpc_cap_cai L2.L1_rpc_cap_cai L1.Age L2.Age L1.2.sex L2.2.sex
  L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
  L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
  L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
  L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
  L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
2, model(level):
  D.L1_rpc_cap_cai D.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix	chi2(24)	=	29.7072
	Prob > chi2	=	0.1946

2-step moment functions, 3-step weighting matrix	chi2(24)	=	32.2946
	Prob > chi2	=	0.1199

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -4.9274 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = 0.7823 Prob > |z| = 0.4341

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .93502818

Step 2 f(b) = .47427022

Fitting reduced model 2:

Step 1 f(b) = .32112201

Group variable: mun_id Number of obs = 1050

Time variable: year Number of groups = 81

Moment conditions:	linear =	52	Obs per group:	min =	5
	nonlinear =	0		avg =	12.96296
	total =	52		max =	14

(Std. err. adjusted for 81 clusters in mun_id)

l_rpc_cap_cai	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_cai						
L1.	.4098332	.0853053	4.80	0.000	.2426379	.5770285
elec_t	.0113266	.1061841	0.11	0.915	-.1967903	.2194436
Age	.0073746	.0142506	0.52	0.605	-.0205562	.0353053
sex						
Male	.0728947	.2841101	0.26	0.798	-.4839509	.6297404
k_12centers	-.0030457	.0018368	-1.66	0.097	-.0066457	.0005544
gdp	7.71e-08	2.01e-08	3.84	0.000	3.77e-08	1.16e-07
interest_rate	.0380036	.0337851	1.12	0.261	-.028214	.1042211
debt	-.0048457	.0087513	-0.55	0.580	-.021998	.0123066
deficit	-7.91e-08	1.48e-07	-0.54	0.592	-3.68e-07	2.10e-07
party_type						
National	-.1671832	.5440493	-0.31	0.759	-1.2335	.8991338
Provincial	6.883566	9.04704	0.76	0.447	-10.84831	24.61544
win_margin	.000849	.0193523	0.04	0.965	-.0370808	.0387788

abstentionism	-.0103496	.0163898	-0.63	0.528	-.0424731	.0217739
pop_share014	.1295544	.0323135	4.01	0.000	.0662211	.1928877
pop_share65plus	-.0061227	.124796	-0.05	0.961	-.2507184	.238473
_cons	.8581785	2.53656	0.34	0.735	-4.113388	5.829745

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L1_rpc_cap_cai L2.L1_rpc_cap_cai L3.L1_rpc_cap_cai L1.Age L2.Age
 L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
 L3.k_12centers L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate
 L3.interest_rate L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit
 L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L1.3.party_type
 L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
 L1.abstentionism L2.abstentionism L3.abstentionism L1.pop_share014
 L2.pop_share014 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus
 L3.pop_share65plus

2, model(level):

D.L1_rpc_cap_cai D.elec_t D.Age D.2.sex D.k_12centers D.gdp
 D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(38) = 38.4159
 Prob > chi2 = 0.4506

2-step moment functions, 3-step weighting matrix chi2(38) = 45.5612
 Prob > chi2 = 0.1864

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -5.0990 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = 1.0869 Prob > |z| = 0.2771

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .97954676

Step 2 f(b) = .57396844

Fitting reduced model 2:

Step 1 f(b) = .41892981

Group variable: **mun_id** Number of obs = 1050
 Time variable: **year** Number of groups = 81

Moment conditions: linear = 63 Obs per group: min = 5
 nonlinear = 0 avg = 12.96296
 total = 63 max = 14

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_cap_cai	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_cai						
L1.	.4361972	.0774207	5.63	0.000	.2844553	.587939
elec_t	-.0547003	.0879141	-0.62	0.534	-.2270087	.117608
Age	-.0074591	.0098887	-0.75	0.451	-.0268405	.0119224
sex						
Male	.1250969	.2870798	0.44	0.663	-.4375692	.687763
k_12centers	-.0036164	.0017299	-2.09	0.037	-.0070069	-.0002259
gdp	8.92e-08	1.67e-08	5.35	0.000	5.65e-08	1.22e-07
interest_rate	.0290171	.0307189	0.94	0.345	-.0311909	.0892252
debt	-.0049121	.0089221	-0.55	0.582	-.0223991	.0125748
deficit	-5.96e-08	1.44e-07	-0.42	0.678	-3.41e-07	2.22e-07
party_type						
National	-.3567504	.4583768	-0.78	0.436	-1.255153	.5416517

Provincial	4.580467	7.307295	0.63	0.531	-9.741568	18.9025
win_margin	.005029	.0174784	0.29	0.774	-.029228	.039286
abstentionism	-.017559	.0166412	-1.06	0.291	-.0501751	.0150572
pop_share014	.1282153	.0245852	5.22	0.000	.0800292	.1764014
pop_share65plus	-.1117345	.0817724	-1.37	0.172	-.2720056	.0485365
_cons	2.575854	1.741901	1.48	0.139	-.8382096	5.989919

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L1_rpc_cap_cai L2.L1_rpc_cap_cai L3.L1_rpc_cap_cai L4.L1_rpc_cap_cai
  L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex L4.2.sex
  L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp L2.gdp
  L3.gdp L4.gdp L2.interest_rate L1.debt L2.debt L3.debt L4.debt L1.deficit
  L2.deficit L3.deficit L4.deficit L1.2bn.party_type L2.2bn.party_type
  L3.2bn.party_type L4.2bn.party_type L1.3.party_type L2.3.party_type
  L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin L3.win_margin
  L4.win_margin L1.abstentionism L2.abstentionism L3.abstentionism
  L4.abstentionism L1.pop_share014 L2.pop_share014 L3.pop_share014
  L4.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus
  L4.pop_share65plus
2, model(level):
  D.L1_rpc_cap_cai D.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(49) = **46.4914**
 Prob > chi2 = **0.5754**

2-step moment functions, 3-step weighting matrix chi2(49) = **55.8190**
 Prob > chi2 = **0.2339**

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-5.2633** Prob > |z| = **0.0000**

H0: no autocorrelation of order 2: z = **1.1762** Prob > |z| = **0.2395**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.31665323**

Step 2 f(b) = **.19028828**

Fitting reduced model 2:

Step 1 f(b) = **2.148e-19**

Group variable: **mun_id** Number of obs = **956**

Time variable: **year** Number of groups = **81**

Moment conditions: linear = **25** Obs per group: min = **4**
 nonlinear = **0** avg = **11.80247**
 total = **25** max = **13**

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_cap_cai	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_cai						
L1.	.3723831	.0829903	4.49	0.000	.2097251	.535041
L2.	.0987979	.0771234	1.28	0.200	-.0523611	.2499569
elec_t	.2494094	.1306634	1.91	0.056	-.0066862	.505505
Age	.0076957	.025419	0.30	0.762	-.0421246	.0575161
sex						
Male	.3858039	.4147693	0.93	0.352	-.4271291	1.198737
k_12centers	-.0011249	.0043806	-0.26	0.797	-.0097107	.0074608
gdp	-5.14e-08	4.85e-08	-1.06	0.290	-1.46e-07	4.37e-08

interest_rate	.1357969	.046323	2.93	0.003	.0450054	.2265884
debt	.0278467	.0159271	1.75	0.080	-.0033698	.0590632
deficit	-2.25e-07	1.77e-07	-1.27	0.202	-5.72e-07	1.21e-07
party_type						
National	-1.316971	1.144149	-1.15	0.250	-3.559462	.92552
Provincial	-2.389177	16.36298	-0.15	0.884	-34.46004	29.68168
win_margin	-.0074634	.029296	-0.25	0.799	-.0648824	.0499556
abstentionism	-.0582584	.0256432	-2.27	0.023	-.1085183	-.0079986
pop_share014	.1097686	.0648668	1.69	0.091	-.017368	.2369053
pop_share65plus	.1393023	.169072	0.82	0.410	-.1920727	.4706773
_cons	4.288959	3.788246	1.13	0.258	-3.135866	11.71378

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L2.1_rpc_cap_cai L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
  L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
  L1.abstentionism L1.pop_share014 L1.pop_share65plus
2, model(level):
  D.L1_rpc_cap_cai D.L2.1_rpc_cap_cai D.elec_t D.Age D.2.sex D.k_12centers
  D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(10) = 15.4134
 Prob > chi2 = 0.1177

2-step moment functions, 3-step weighting matrix chi2(10) = 15.5273
 Prob > chi2 = 0.1140

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -4.7534 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = 0.5528 Prob > |z| = 0.5804

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .56933622

Step 2 f(b) = .38047004

Fitting reduced model 2:

Step 1 f(b) = .14239343

Group variable: **mun_id**

Number of obs = 956

Time variable: **year**

Number of groups = 81

Moment conditions: linear = 39 Obs per group: min = 4
 nonlinear = 0 avg = 11.80247
 total = 39 max = 13

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_cap_cai	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_cai						
L1.	.3482843	.092926	3.75	0.000	.1661527	.5304158
L2.	.0542872	.069954	0.78	0.438	-.0828202	.1913946
elec_t	.0771427	.1080741	0.71	0.475	-.1346786	.288964
Age	.0133214	.0206243	0.65	0.518	-.0271015	.0537442
sex						
Male	.1880718	.2874291	0.65	0.513	-.3752789	.7514226
k_12centers	-.0035948	.003721	-0.97	0.334	-.0108879	.0036983
gdp	4.81e-08	3.10e-08	1.55	0.121	-1.27e-08	1.09e-07
interest_rate	.071581	.0438449	1.63	0.103	-.0143535	.1575154
debt	.0102525	.0109616	0.94	0.350	-.0112319	.0317369

deficit	-2.16e-07	1.70e-07	-1.27	0.204	-5.49e-07	1.17e-07
party_type						
National	-1.683612	.5877438	-2.86	0.004	-2.835569	-.5316554
Provincial	-4.980789	12.0799	-0.41	0.680	-28.65695	18.69538
win_margin	-.0188757	.0283637	-0.67	0.506	-.0744675	.0367162
abstentionism	-.0364987	.0258918	-1.41	0.159	-.0872456	.0142482
pop_share014	.1642644	.0656739	2.50	0.012	.0355458	.2929829
pop_share65plus	-.0063157	.2181607	-0.03	0.977	-.4339029	.4212716
_cons	2.581998	4.341369	0.59	0.552	-5.926929	11.09092

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.l_rpc_cap_cai L2.L2.l_rpc_cap_cai L1.Age L2.Age L1.2.sex L2.2.sex
 L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
 L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
 L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
 L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
 L2.pop_share014 L1.pop_share65plus L2.pop_share65plus

2, model(level):

D.L.l_rpc_cap_cai D.L2.l_rpc_cap_cai D.elec_t D.Age D.2.sex D.k_12centers
 D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(24) = 30.8181
 Prob > chi2 = 0.1591

2-step moment functions, 3-step weighting matrix chi2(24) = 32.5207
 Prob > chi2 = 0.1146

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -4.7489 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = 1.1370 Prob > |z| = 0.2555

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .72462782

Step 2 f(b) = .47935947

Fitting reduced model 2:

Step 1 f(b) = .26828608

Group variable: mun_id Number of obs = 956
 Time variable: year Number of groups = 81

Moment conditions: linear = 53 Obs per group: min = 4
 nonlinear = 0 avg = 11.80247
 total = 53 max = 13

(Std. err. adjusted for 81 clusters in mun_id)

l_rpc_cap_cai	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_cai						
L1.	.3761817	.074955	5.02	0.000	.2292726	.5230909
L2.	.0774271	.0665106	1.16	0.244	-.0529313	.2077855
elec_t	.0057337	.0898478	0.06	0.949	-.1703647	.1818322
Age	-.0058517	.0140736	-0.42	0.678	-.0334355	.0217321
sex						
Male	.088295	.3000835	0.29	0.769	-.4998578	.6764478
k_12centers	-.0064071	.0027523	-2.33	0.020	-.0118015	-.0010128
gdp	6.51e-08	2.12e-08	3.07	0.002	2.35e-08	1.07e-07
interest_rate	.0463475	.038236	1.21	0.225	-.0285936	.1212887

debt	.0086914	.0097064	0.90	0.371	-.0103328	.0277156
deficit	-1.99e-07	1.37e-07	-1.45	0.146	-4.66e-07	6.90e-08
party_type						
National	-1.260958	.7754541	-1.63	0.104	-2.78082	.2589038
Provincial	6.628637	8.405138	0.79	0.430	-9.845132	23.10241
win_margin	-.0087975	.0232008	-0.38	0.705	-.0542703	.0366752
abstentionism	-.023532	.0196374	-1.20	0.231	-.0620207	.0149567
pop_share014	.1504796	.0508419	2.96	0.003	.0508313	.2501279
pop_share65plus	-.140251	.155597	-0.90	0.367	-.4452156	.1647135
_cons	3.280769	3.318508	0.99	0.323	-3.223388	9.784925

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.1_rpc_cap_cai L2.L2.1_rpc_cap_cai L3.L2.1_rpc_cap_cai L1.Age L2.Age
 L3.Age L1.2_sex L2.2_sex L3.2_sex L1.k_12centers L2.k_12centers
 L3.k_12centers L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate
 L3.interest_rate L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit
 L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L1.3.party_type
 L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
 L1.abstentionism L2.abstentionism L3.abstentionism L1.pop_share014
 L2.pop_share014 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus
 L3.pop_share65plus

2, model(level):

D.L.1_rpc_cap_cai D.L2.1_rpc_cap_cai D.elec_t D.Age D.2.sex D.k_12centers
 D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(38) = 38.8281
 Prob > chi2 = 0.4322

2-step moment functions, 3-step weighting matrix chi2(38) = 46.7786
 Prob > chi2 = 0.1554

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -4.7838 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = 0.9090 Prob > |z| = 0.3634

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .81288236

Step 2 f(b) = .59673247

Fitting reduced model 2:

Step 1 f(b) = .39466017

Group variable: mun_id Number of obs = 956

Time variable: year Number of groups = 81

Moment conditions: linear = 63 Obs per group: min = 4
 nonlinear = 0 avg = 11.80247
 total = 63 max = 13

(Std. err. adjusted for 81 clusters in mun_id)

	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_cai						
l_rpc_cap_cai						
L1.	.4182065	.0677244	6.18	0.000	.2854691	.5509439
L2.	.1137656	.0674347	1.69	0.092	-.018404	.2459352
elec_t	-.0522006	.090461	-0.58	0.564	-.2295008	.1250996
Age	-.0162687	.0107779	-1.51	0.131	-.037393	.0048557
sex						

Male	.3185107	.2118837	1.50	0.133	-.0967737	.733795
k_12centers	-.0057235	.0023494	-2.44	0.015	-.0103282	-.0011187
gdp	6.93e-08	1.90e-08	3.65	0.000	3.21e-08	1.06e-07
interest_rate	.0224964	.0339334	0.66	0.507	-.0440119	.0890047
debt	.0061652	.0109664	0.56	0.574	-.0153285	.0276589
deficit	-2.07e-07	1.33e-07	-1.56	0.119	-4.68e-07	5.30e-08
party_type						
National	-.6667485	.6731117	-0.99	0.322	-1.986023	.6525261
Provincial	6.312598	7.405695	0.85	0.394	-8.202297	20.82749
win_margin	-.0021438	.0217318	-0.10	0.921	-.0447373	.0404497
abstentionism	-.0299148	.015994	-1.87	0.061	-.0612625	.0014329
pop_share014	.1540751	.045474	3.39	0.001	.0649478	.2432025
pop_share65plus	-.1937998	.1102762	-1.76	0.079	-.4099371	.0223376
_cons	3.141173	2.655631	1.18	0.237	-2.063769	8.346114

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.1_rpc_cap_cai L2.L2.1_rpc_cap_cai L3.L2.1_rpc_cap_cai
 L4.L2.1_rpc_cap_cai L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex
 L4.2.sex L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp
 L2.gdp L3.gdp L4.gdp L2.interest_rate L2.debt L3.debt L4.debt L1.deficit
 L2.deficit L3.deficit L4.deficit L1.2bn.party_type L2.2bn.party_type
 L3.2bn.party_type L4.2bn.party_type L1.3.party_type L2.3.party_type
 L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin L3.win_margin
 L4.win_margin L1.abstentionism L2.abstentionism L3.abstentionism
 L4.abstentionism L1.pop_share014 L2.pop_share014 L3.pop_share014
 L4.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus
 L4.pop_share65plus

2, model(level):

D.L.1_rpc_cap_cai D.L2.1_rpc_cap_cai D.elec_t D.Age D.2.sex D.k_12centers
 D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(48) = 48.3353
 Prob > chi2 = 0.4593

2-step moment functions, 3-step weighting matrix chi2(48) = 61.5815
 Prob > chi2 = 0.0901

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -4.9138 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = 0.5078 Prob > |z| = 0.6116

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .53183676

Step 2 f(b) = .2724107

Fitting reduced model 2:

Step 1 f(b) = 1.205e-20

Group variable: mun_id

Number of obs = 1050

Time variable: year

Number of groups = 81

Moment conditions: linear = 25 Obs per group: min = 5
 nonlinear = 0 avg = 12.96296
 total = 25 max = 14

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_cap_cai	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_cai						
L1.	.3873179	.0895427	4.33	0.000	.2118175	.5628184
elec_t						
--.	-.1111645	.1751919	-0.63	0.526	-.4545343	.2322052
L1.	-.2011415	.2058106	-0.98	0.328	-.6045229	.20224
Age	.0053026	.0225713	0.23	0.814	-.0389364	.0495417
sex						
Male	.4072435	.3675996	1.11	0.268	-.3132384	1.127726
k_12centers	.000732	.0028599	0.26	0.798	-.0048734	.0063374
gdp	3.31e-08	3.42e-08	0.97	0.333	-3.39e-08	1.00e-07
interest_rate	.0063541	.0521969	0.12	0.903	-.09595	.1086582
debt	-.0178613	.0139838	-1.28	0.202	-.0452691	.0095465
deficit	2.23e-07	2.72e-07	0.82	0.413	-3.11e-07	7.57e-07
party_type						
National	.9622804	2.206111	0.44	0.663	-3.361617	5.286178
Provincial	-5.615078	16.23299	-0.35	0.729	-37.43115	26.201
win_margin	.0060301	.0313878	0.19	0.848	-.0554888	.067549
abstentionism	-.0420087	.0259382	-1.62	0.105	-.0928465	.0088292
pop_share014	.0584725	.0507481	1.15	0.249	-.040992	.157937
pop_share65plus	.2288435	.181615	1.26	0.208	-.1271154	.5848024
_cons	3.889785	3.819298	1.02	0.308	-3.595902	11.37547

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L1_rpc_cap_cai L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
  L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
  L1.abstentionism L1.pop_share014 L1.pop_share65plus
2, model(level):
  D.L1_rpc_cap_cai D.elec_t D.L.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(10)    =    22.0653
                                                        Prob > chi2 =    0.0148

```

```

2-step moment functions, 3-step weighting matrix      chi2(10)    =    22.7089
                                                        Prob > chi2 =    0.0119

```

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-4.9509** Prob > |z| = **0.0000**H0: no autocorrelation of order 2: z = **0.6979** Prob > |z| = **0.4852**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.72325553**Step 2 f(b) = **.35498504**

Fitting reduced model 2:

Step 1 f(b) = **.16875489**Group variable: **mun_id**Number of obs = **1050**Time variable: **year**Number of groups = **81**

```

Moment conditions:      linear =    39
                        nonlinear =    0
                        total =    39

```

```

Obs per group:      min =    5
                    avg =  12.96296
                    max =   14

```

(Std. err. adjusted for 81 clusters in `mun_id`)

<code>l_rpc_cap_cai</code>	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
<code>l_rpc_cap_cai</code>						
<code>L1.</code>	.4142464	.0794267	5.22	0.000	.2585728	.5699199
<code>elec_t</code>						
<code>--.</code>	-.0937719	.1425485	-0.66	0.511	-.3731618	.1856179
<code>L1.</code>	-.1692494	.1764993	-0.96	0.338	-.5151816	.1766828
<code>Age</code>	.0107027	.0188457	0.57	0.570	-.0262341	.0476396
<code>sex</code>						
<code>Male</code>	.0783589	.334225	0.23	0.815	-.57671	.7334277
<code>k_12centers</code>	.0010206	.002242	0.46	0.649	-.0033736	.0054149
<code>gdp</code>	4.66e-08	2.55e-08	1.83	0.067	-3.31e-09	9.66e-08
<code>interest_rate</code>	.0104961	.0490625	0.21	0.831	-.0856647	.1066569
<code>debt</code>	-.015379	.0104452	-1.47	0.141	-.0358512	.0050932
<code>deficit</code>	1.19e-07	1.94e-07	0.62	0.537	-2.60e-07	4.99e-07
<code>party_type</code>						
<code>National</code>	.4474725	1.396221	0.32	0.749	-2.289071	3.184016
<code>Provincial</code>	-4.416174	12.37933	-0.36	0.721	-28.67921	19.84686
<code>win_margin</code>	.0148504	.0230802	0.64	0.520	-.030386	.0600867
<code>abstentionism</code>	-.0275676	.0207269	-1.33	0.184	-.0681916	.0130564
<code>pop_share014</code>	.071249	.0369629	1.93	0.054	-.0011968	.1436949
<code>pop_share65plus</code>	.1704973	.1437374	1.19	0.236	-.1112228	.4522175
<code>_cons</code>	2.693871	2.836175	0.95	0.342	-2.86493	8.252672

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L1.l_rpc_cap_cai L2.L1.l_rpc_cap_cai L1.Age L2.Age L1.2.sex L2.2.sex
  L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
  L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
  L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
  L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
  L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
2, model(level):
  D.L1.l_rpc_cap_cai D.elec_t D.L.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(24)      =      28.7538
                                                         Prob > chi2    =      0.2295

```

```

2-step moment functions, 3-step weighting matrix      chi2(24)      =      31.0703
                                                         Prob > chi2    =      0.1518

```

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-4.9330** Prob > |z| = **0.0000**H0: no autocorrelation of order 2: z = **0.8069** Prob > |z| = **0.4197**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.89182089**Step 2 f(b) = **.46295535**

Fitting reduced model 2:

Step 1 f(b) = **.33011322**Group variable: `mun_id`Number of obs = **1050**Time variable: `year`Number of groups = **81**

Fitting reduced model 2:

Step 1 f(b) = .40301133

Group variable: **mun_id**

Number of obs = 1050

Time variable: **year**

Number of groups = 81

Moment conditions:	linear =	64	Obs per group:	min =	5
	nonlinear =	0		avg =	12.96296
	total =	64		max =	14

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_cap_cai	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_cai L1.	.4400322	.0729735	6.03	0.000	.2970068	.5830576
elec_t --.	-.170973	.095818	-1.78	0.074	-.3587728	.0168267
L1.	-.2640507	.1283627	-2.06	0.040	-.515637	-.0124644
Age	-.0040983	.009651	-0.42	0.671	-.0230139	.0148172
sex						
Male	.0299131	.3045117	0.10	0.922	-.5669188	.6267451
k_12centers	-.0020479	.0018168	-1.13	0.260	-.0056087	.0015129
gdp	7.83e-08	1.76e-08	4.45	0.000	4.38e-08	1.13e-07
interest_rate	-.011811	.0315995	-0.37	0.709	-.0737449	.0501229
debt	-.0129454	.0089463	-1.45	0.148	-.0304797	.004589
deficit	1.42e-07	1.73e-07	0.82	0.413	-1.98e-07	4.81e-07
party_type						
National	-.1126447	.4883818	-0.23	0.818	-1.069855	.844566
Provincial	4.730905	6.967787	0.68	0.497	-8.925707	18.38752
win_margin	.0104704	.0170191	0.62	0.538	-.0228864	.0438273
abstentionism	-.0097185	.0153843	-0.63	0.528	-.0398712	.0204341
pop_share014	.0945238	.02765	3.42	0.001	.0403308	.1487167
pop_share65plus	.013849	.1029337	0.13	0.893	-.1878973	.2155952
_cons	2.772167	1.651691	1.68	0.093	-.4650876	6.009421

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L1.l_rpc_cap_cai L2.L1.l_rpc_cap_cai L3.L1.l_rpc_cap_cai L4.L1.l_rpc_cap_cai
 L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex L4.2.sex
 L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp L2.gdp
 L3.gdp L4.gdp L2.interest_rate L1.debt L2.debt L3.debt L4.debt L1.deficit
 L2.deficit L3.deficit L4.deficit L1.2bn.party_type L2.2bn.party_type
 L3.2bn.party_type L4.2bn.party_type L1.3.party_type L2.3.party_type
 L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin L3.win_margin
 L4.win_margin L1.abstentionism L2.abstentionism L3.abstentionism
 L4.abstentionism L1.pop_share014 L2.pop_share014 L3.pop_share014
 L4.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus
 L4.pop_share65plus

2, model(level):

D.L1.l_rpc_cap_cai D.elec_t D.L.elec_t D.Age D.2.sex D.k_12centers D.gdp
 D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix	chi2(49)	=	43.0680
	Prob > chi2	=	0.7113

2-step moment functions, 3-step weighting matrix	chi2(49)	=	54.2468
	Prob > chi2	=	0.2813

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-5.4165** Prob > |z| = **0.0000**
H0: no autocorrelation of order 2: z = **1.1538** Prob > |z| = **0.2486**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.33254692**
Step 2 f(b) = **.2175432**

Group variable: **mun_id** Number of obs = **956**
Time variable: **year** Number of groups = **81**

Moment conditions: linear = **26** Obs per group: min = **4**
nonlinear = **0** avg = **11.80247**
total = **26** max = **13**

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_cap_cai	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_cai						
L1.	.3754144	.0824711	4.55	0.000	.213774	.5370547
L2.	.1114577	.0844532	1.32	0.187	-.0540677	.276983
elec_t						
--.	-.0851548	.1823389	-0.47	0.640	-.4425325	.2722229
L1.	-.3584403	.2029811	-1.77	0.077	-.7562759	.0393953
Age	.0093583	.0254904	0.37	0.714	-.040602	.0593186
sex						
Male	.3357053	.3845089	0.87	0.383	-.4179183	1.089329
k_12centers	-.0016251	.0041605	-0.39	0.696	-.0097795	.0065294
gdp	-2.94e-08	4.17e-08	-0.70	0.481	-1.11e-07	5.24e-08
interest_rate	.0490378	.0591246	0.83	0.407	-.0668442	.1649199
debt	.0147128	.016369	0.90	0.369	-.0173699	.0467955
deficit	6.41e-08	2.38e-07	0.27	0.788	-4.03e-07	5.31e-07
party_type						
National	-1.22271	1.094129	-1.12	0.264	-3.367163	.921743
Provincial	.0434815	15.75696	0.00	0.998	-30.83959	30.92655
win_margin	-.0079076	.0295404	-0.27	0.789	-.0658058	.0499905
abstentionism	-.0488362	.0235797	-2.07	0.038	-.0950516	-.0026208
pop_share014	.0972863	.0547281	1.78	0.075	-.0099787	.2045513
pop_share65plus	.1199881	.1569915	0.76	0.445	-.1877096	.4276857
_cons	5.133468	3.316172	1.55	0.122	-1.366111	11.63305

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.l_rpc_cap_cai L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
L1.abstentionism L1.pop_share014 L1.pop_share65plus

2, model(level):

D.L.l_rpc_cap_cai D.L2.l_rpc_cap_cai D.elec_t D.L.elec_t D.Age D.2.sex
D.k_12centers D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(10) = **17.6210**
Prob > chi2 = **0.0617**

2-step moment functions, 3-step weighting matrix chi2(10) = **17.8110**
Prob > chi2 = **0.0582**

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-4.9394** Prob > |z| = **0.0000**
H0: no autocorrelation of order 2: z = **0.5866** Prob > |z| = **0.5575**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.51498712**
Step 2 f(b) = **.40877433**

Fitting reduced model 2:

Step 1 f(b) = **.14397088**

Group variable: **mun_id** Number of obs = **956**
Time variable: **year** Number of groups = **81**

Moment conditions: linear = **40** Obs per group: min = **4**
nonlinear = **0** avg = **11.80247**
total = **40** max = **13**

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_cap_cai	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_cai						
L1.	.365729	.0900232	4.06	0.000	.1892867	.5421712
L2.	.0721672	.0706155	1.02	0.307	-.0662367	.2105712
elec_t						
L1.	-.1420024	.1816703	-0.78	0.434	-.4980697	.214065
Age	-.2862582	.202062	-1.42	0.157	-.6822924	.109776
sex						
Male	.0132331	.0190675	0.69	0.488	-.0241385	.0506047
k_12centers	.064993	.2809061	0.23	0.817	-.4855728	.6155588
gdp	-.0024709	.0036014	-0.69	0.493	-.0095295	.0045878
interest_rate	4.93e-08	2.86e-08	1.73	0.084	-6.68e-09	1.05e-07
debt	.0091744	.0589926	0.16	0.876	-.106449	.1247978
deficit	.0016735	.012847	0.13	0.896	-.0235062	.0268532
	8.91e-09	2.43e-07	0.04	0.971	-4.67e-07	4.85e-07
party_type						
National	-1.571786	.5569268	-2.82	0.005	-2.663343	-.4802299
Provincial	-6.221581	11.74524	-0.53	0.596	-29.24183	16.79867
win_margin	-.021616	.027597	-0.78	0.433	-.0757051	.0324732
abstentionism	-.0310119	.0241006	-1.29	0.198	-.0782483	.0162244
pop_share014	.1470672	.0636356	2.31	0.021	.0223437	.2717907
pop_share65plus	.0399133	.1852556	0.22	0.829	-.323181	.4030077
_cons	3.13273	4.113218	0.76	0.446	-4.929029	11.19449

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.1_rpc_cap_cai L2.L2.1_rpc_cap_cai L1.Age L2.Age L1.2.sex L2.2.sex
L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
L2.pop_share014 L1.pop_share65plus L2.pop_share65plus

2, model(level):

D.L.1_rpc_cap_cai D.L2.1_rpc_cap_cai D.elec_t D.L.elec_t D.Age D.2.sex
D.k_12centers D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix $\chi^2(24) = 33.1107$
 Prob > $\chi^2 = 0.1018$

2-step moment functions, 3-step weighting matrix $\chi^2(24) = 35.8943$
 Prob > $\chi^2 = 0.0562$

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: $z = -4.8823$ Prob > $|z| = 0.0000$
 H0: no autocorrelation of order 2: $z = 1.1363$ Prob > $|z| = 0.2558$

Generalized method of moments estimation

Fitting full model:

Step 1 $f(b) = .58636102$

Step 2 $f(b) = .5370157$

Fitting reduced model 2:

Step 1 $f(b) = .30527853$

Group variable: **mun_id** Number of obs = 956
 Time variable: **year** Number of groups = 81

Moment conditions: linear = 54 Obs per group: min = 4
 nonlinear = 0 avg = 11.80247
 total = 54 max = 13

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_cap_cai	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_cai						
L1.	.3498617	.0759057	4.61	0.000	.2010893	.4986341
L2.	.0887658	.0653999	1.36	0.175	-.0394156	.2169472
elec_t						
L1.	-.1906261	.1334362	-1.43	0.153	-.4521563	.0709041
L2.	-.3805927	.1799942	-2.11	0.034	-.7333749	-.0278105
Age	-.0000389	.0137683	-0.00	0.998	-.0270242	.0269464
sex						
Male	-.0157208	.2976506	-0.05	0.958	-.5991052	.5676635
k_12centers	-.0037044	.0028331	-1.31	0.191	-.0092572	.0018484
gdp	4.16e-08	2.24e-08	1.86	0.063	-2.32e-09	8.55e-08
interest_rate	-.0104499	.0468156	-0.22	0.823	-.1022067	.0813069
debt	.0010493	.0108938	0.10	0.923	-.0203022	.0224009
deficit	1.00e-07	2.05e-07	0.49	0.624	-3.01e-07	5.02e-07
party_type						
National	-1.065228	.8029971	-1.33	0.185	-2.639073	.5086174
Provincial	4.984623	7.424605	0.67	0.502	-9.567336	19.53658
win_margin	-.0088238	.0244504	-0.36	0.718	-.0567458	.0390982
abstentionism	-.0236511	.016882	-1.40	0.161	-.0567392	.009437
pop_share014	.1049865	.0477339	2.20	0.028	.0114299	.1985432
pop_share65plus	.0145607	.150113	0.10	0.923	-.2796554	.3087768
_cons	4.651712	2.814329	1.65	0.098	-.8642705	10.16769

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.l_rpc_cap_cai L2.L2.l_rpc_cap_cai L3.L2.l_rpc_cap_cai L1.Age L2.Age
 L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
 L3.k_12centers L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate
 L3.interest_rate L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit
 L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L1.3.party_type
 L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
 L1.abstentionism L2.abstentionism L3.abstentionism L1.pop_share014
 L2.pop_share014 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus
 L3.pop_share65plus

2, model(level):

D.L.l_rpc_cap_cai D.L2.l_rpc_cap_cai D.elec_t D.L.elec_t D.Age D.2.sex

D.k_12centers D.gdp D.interest_rate D.debt D.deficit
 3, model(level):
 _cons

Sargan-Hansen test of the overidentifying restrictions
 H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(38) = **43.4983**
 Prob > chi2 = **0.2488**

2-step moment functions, 3-step weighting matrix chi2(38) = **50.6492**
 Prob > chi2 = **0.0823**

Arellano-Bond test for autocorrelation of the first-differenced residuals
 H0: no autocorrelation of order 1: z = **-4.8756** Prob > |z| = **0.0000**
 H0: no autocorrelation of order 2: z = **0.7775** Prob > |z| = **0.4369**

Generalized method of moments estimation

Fitting full model:
 Step 1 f(b) = **.67300309**
 Step 2 f(b) = **.60594478**

Fitting reduced model 2:
 Step 1 f(b) = **.39508334**

Group variable: **mun_id** Number of obs = **956**
 Time variable: **year** Number of groups = **81**

Moment conditions: linear = **64** Obs per group: min = **4**
 nonlinear = **0** avg = **11.80247**
 total = **64** max = **13**

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_cap_cai	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_cai						
L1.	.3953253	.0680368	5.81	0.000	.2619756	.528675
L2.	.1167589	.0655183	1.78	0.075	-.0116547	.2451724
elec_t						
--.	-.2454142	.1115971	-2.20	0.028	-.4641405	-.0266879
L1.	-.4169317	.1461868	-2.85	0.004	-.7034527	-.1304108
Age	-.0091148	.0097087	-0.94	0.348	-.0281434	.0099139
sex						
Male	.1386048	.2117148	0.65	0.513	-.2763486	.5535581
k_12centers	-.003719	.0022396	-1.66	0.097	-.0081086	.0006706
gdp	4.75e-08	1.80e-08	2.64	0.008	1.23e-08	8.27e-08
interest_rate	-.0401273	.041417	-0.97	0.333	-.1213032	.0410486
debt	-.0016187	.0109716	-0.15	0.883	-.0231226	.0198851
deficit	1.29e-07	1.88e-07	0.69	0.493	-2.39e-07	4.96e-07
party_type						
National	-.472205	.6752459	-0.70	0.484	-1.795663	.8512527
Provincial	5.631391	6.079826	0.93	0.354	-6.284849	17.54763
win_margin	-.0005497	.022159	-0.02	0.980	-.0439806	.0428812
abstentionism	-.0230601	.013861	-1.66	0.096	-.0502272	.004107
pop_share014	.109217	.042163	2.59	0.010	.0265791	.191855
pop_share65plus	-.036063	.104321	-0.35	0.730	-.2405283	.1684023
_cons	4.180568	2.26108	1.85	0.064	-.2510668	8.612203

Instruments corresponding to the linear moment conditions:

1, model(diff):
 L1.L2.1_rpc_cap_cai L2.L2.1_rpc_cap_cai L3.L2.1_rpc_cap_cai
 L4.L2.1_rpc_cap_cai L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex
 L4.2.sex L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp
 L2.gdp L3.gdp L4.gdp L2.interest_rate L2.debt L3.debt L4.debt L1.deficit

```

L2.deficit L3.deficit L4.deficit L1.2bn.party_type L2.2bn.party_type
L3.2bn.party_type L4.2bn.party_type L1.3.party_type L2.3.party_type
L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin L3.win_margin
L4.win_margin L1.abstentionism L2.abstentionism L3.abstentionism
L4.abstentionism L1.pop_share014 L2.pop_share014 L3.pop_share014
L4.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus
L4.pop_share65plus
2, model(level):
  D.L1_rpc_cap_cai D.L2.1_rpc_cap_cai D.elec_t D.L.elec_t D.Age D.2.sex
  D.k_12centers D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(48)      =    49.0815
                                                         Prob > chi2    =    0.4295

2-step moment functions, 3-step weighting matrix      chi2(48)      =    63.8100
                                                         Prob > chi2    =    0.0629

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1:      z =    -5.0192    Prob > |z|    =    0.0000
H0: no autocorrelation of order 2:      z =     0.4246    Prob > |z|    =    0.6712

Generalized method of moments estimation

Fitting full model:
Step 1          f(b) =    .00470192
Step 2          f(b) =    .24663128

Fitting reduced model 2:
Step 1          f(b) =    3.596e-22

Group variable: mun_id                      Number of obs      =    1125
Time variable: year                        Number of groups    =     81

Moment conditions:      linear =      24      Obs per group:   min =     11
                       nonlinear =    0      avg =    13.88889
                       total =     24      max =     14

                               (Std. err. adjusted for 81 clusters in mun_id)

```

l_rpc_salaries	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_salaries						
L1.	.7971246	.1949308	4.09	0.000	.4150674	1.179182
elec_t	-.0362886	.0224624	-1.62	0.106	-.0803142	.007737
Age	.0010861	.0032949	0.33	0.742	-.0053717	.0075439
sex						
Male	-.0704118	.0551647	-1.28	0.202	-.1785325	.037709
k_12centers	-.0008163	.0004477	-1.82	0.068	-.0016938	.0000613
gdp	2.04e-08	6.58e-09	3.10	0.002	7.47e-09	3.33e-08
interest_rate	-.0087347	.0080023	-1.09	0.275	-.0244189	.0069495
debt	-.0081826	.0017954	-4.56	0.000	-.0117015	-.0046637
deficit	7.46e-08	2.91e-08	2.57	0.010	1.77e-08	1.32e-07
party_type						
National	.1911807	.2651218	0.72	0.471	-.3284485	.7108098
Provincial	2.810655	2.13227	1.32	0.187	-1.368518	6.989828
win_margin	-.0017806	.0027239	-0.65	0.513	-.0071193	.003558
abstentionism	.0116003	.0057564	2.02	0.044	.0003179	.0228826
pop_share014	.0221285	.0145629	1.52	0.129	-.0064142	.0506711
pop_share65plus	.069969	.0334869	2.09	0.037	.0043359	.1356021
_cons	.1421593	1.840577	0.08	0.938	-3.465304	3.749623

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L1_rpc_salaries L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
  L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
  L1.abstentionism L1.pop_share014 L1.pop_share65plus
2, model(level):
  D.L1_rpc_salaries D.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(10)    =    19.9771
                                                        Prob > chi2 =    0.0295

```

```

2-step moment functions, 3-step weighting matrix      chi2(10)    =    29.3251
                                                        Prob > chi2 =    0.0011

```

Arellano-Bond test for autocorrelation of the first-differenced residuals

```

H0: no autocorrelation of order 1:      z =    -4.3256    Prob > |z| =    0.0000
H0: no autocorrelation of order 2:      z =     0.5034    Prob > |z| =    0.6147

```

Generalized method of moments estimation

Fitting full model:

```

Step 1      f(b) =    .012799
Step 2      f(b) =    .52159754

```

Fitting reduced model 2:

```

Step 1      f(b) =    .32422787

```

```

Group variable: mun_id      Number of obs      =    1125
Time variable: year        Number of groups   =     81

```

```

Moment conditions:      linear =    38      Obs per group:      min =    11
                        nonlinear =    0      avg =   13.88889
                        total =    38      max =    14

```

(Std. err. adjusted for 81 clusters in mun_id)

l_rpc_salaries	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_salaries						
L1.	.7630265	.1810343	4.21	0.000	.4082058	1.117847
elec_t	-.026491	.0175761	-1.51	0.132	-.0609394	.0079575
Age	.0018139	.0027484	0.66	0.509	-.0035729	.0072006
sex						
Male	-.0212089	.0552701	-0.38	0.701	-.1295363	.0871185
k_12centers	-.0006577	.0003991	-1.65	0.099	-.00144	.0001246
gdp	1.70e-08	4.19e-09	4.07	0.000	8.83e-09	2.52e-08
interest_rate	-.0029887	.0059648	-0.50	0.616	-.0146794	.0087021
debt	-.0062282	.0011191	-5.23	0.000	-.0085626	-.0038938
deficit	6.91e-08	2.67e-08	2.59	0.010	1.69e-08	1.21e-07
party_type						
National	.1910382	.2226115	0.86	0.391	-.2452722	.6273487
Provincial	1.012576	1.53104	0.66	0.508	-1.988208	4.013361
win_margin	-.0028577	.0037921	-0.75	0.451	-.01029	.0045746
abstentionism	.007563	.003952	1.91	0.056	-.0001829	.0153088
pop_share014	.0156581	.0139018	1.13	0.260	-.011589	.0429052
pop_share65plus	.059009	.0211109	2.80	0.005	.0176324	.1003857
_cons	.8186041	1.821095	0.45	0.653	-2.750677	4.387885

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L1_rpc_salaries L2.L1_rpc_salaries L1.Age L2.Age L1.2.sex L2.2.sex
  L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate

```

```

L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
2, model(level):
  D.L1_rpc_salaries D.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix      chi2(24)      =    42.2494
                                                         Prob > chi2    =    0.0121

2-step moment functions, 3-step weighting matrix      chi2(24)      =    47.5114
                                                         Prob > chi2    =    0.0029

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1:      z =    -4.3917    Prob > |z|    =    0.0000
H0: no autocorrelation of order 2:      z =     0.5829    Prob > |z|    =    0.5600

Generalized method of moments estimation

Fitting full model:
Step 1      f(b) =    .02685248
Step 2      f(b) =    .59527883

Fitting reduced model 2:
Step 1      f(b) =    .52386789

Group variable: mun_id      Number of obs      =    1125
Time variable: year      Number of groups    =     81

Moment conditions:      linear =     51      Obs per group:    min =     11
                        nonlinear =     0      avg =    13.88889
                        total =     51      max =     14

                                (Std. err. adjusted for 81 clusters in mun_id)

```

	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_salaries						
l_rpc_salaries						
L1.	.7364322	.1363872	5.40	0.000	.4691183	1.003746
elec_t	-.0303141	.0137679	-2.20	0.028	-.0572987	-.0033294
Age	.0011003	.0031357	0.35	0.726	-.0050456	.0072461
sex						
Male	-.0207134	.0476937	-0.43	0.664	-.1141914	.0727645
k_12centers	-.0005633	.0003334	-1.69	0.091	-.0012166	.0000901
gdp	1.83e-08	3.30e-09	5.55	0.000	1.18e-08	2.48e-08
interest_rate	-.0022986	.0047415	-0.48	0.628	-.0115918	.0069946
debt	-.0063099	.0011369	-5.55	0.000	-.0085382	-.0040816
deficit	7.33e-08	2.02e-08	3.63	0.000	3.37e-08	1.13e-07
party_type						
National	.3974303	.3324651	1.20	0.232	-.2541892	1.04905
Provincial	-.2714867	1.709575	-0.16	0.874	-3.622192	3.079219
win_margin	-.0014602	.0037533	-0.39	0.697	-.0088164	.0058961
abstentionism	.0059774	.0054651	1.09	0.274	-.0047341	.0166888
pop_share014	.0151385	.0104667	1.45	0.148	-.005376	.0356529
pop_share65plus	.0571515	.0197795	2.89	0.004	.0183843	.0959186
_cons	.9848759	1.539177	0.64	0.522	-2.031855	4.001607

```

Instruments corresponding to the linear moment conditions:
1, model(diff):
  L1.L1_rpc_salaries L2.L1_rpc_salaries L3.L1_rpc_salaries L1.Age L2.Age
  L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers

```

```

L3.k_12centers L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate
L3.interest_rate L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit
L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L1.3.party_type
L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
L1.abstentionism L2.abstentionism L3.abstentionism L1.pop_share014
L2.pop_share014 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus
L3.pop_share65plus
2, model(level):
  D.L1_rpc_salaries D.Age D.2.sex D.k_12centers D.gdp D.interest_rate D.debt
  D.deficit
3, model(level):
  _cons

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix      chi2(37)      =    48.2176
                                                         Prob > chi2 =    0.1025

2-step moment functions, 3-step weighting matrix      chi2(37)      =    57.2425
                                                         Prob > chi2 =    0.0179

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1:      z =    -4.2273      Prob > |z| =    0.0000
H0: no autocorrelation of order 2:      z =     0.4771      Prob > |z| =    0.6333

Generalized method of moments estimation

Fitting full model:
Step 1          f(b) =    .02949156
Step 2          f(b) =    .66858128

Fitting reduced model 2:
Step 1          f(b) =    .53508401

Group variable: mun_id                      Number of obs      =    1125
Time variable: year                      Number of groups   =     81

Moment conditions:      linear =      61      Obs per group:   min =     11
                      nonlinear =      0      avg =    13.88889
                      total =     61      max =     14

                                (Std. err. adjusted for 81 clusters in mun_id)

+-----+-----+-----+-----+-----+-----+
| l_rpc_salaries | Coefficient | WC-Robust | z | P>|z| | [95% conf. interval] |
|-----+-----+-----+-----+-----+-----+
| l_rpc_salaries |             |            |   |     |             |             |
|   L1.          | .7330107   | .1142632   | 6.42 | 0.000 | .509059   | .9569623   |
|   elec_t       | -.0276308  | .0140641   | -1.96 | 0.049 | -.0551959 | -.0000657  |
|   Age          | .0010876   | .0022073   | 0.49 | 0.622 | -.0032386 | .0054139   |
|   sex          |             |            |   |     |             |             |
|     Male       | -.0221374  | .0405679   | -0.55 | 0.585 | -.1016491 | .0573743   |
|   k_12centers  | -.0006788  | .0002864   | -2.37 | 0.018 | -.0012401 | -.0001175  |
|     gdp        | 1.78e-08   | 3.43e-09   | 5.18 | 0.000 | 1.10e-08   | 2.45e-08   |
|   interest_rate | .0001504   | .0046584   | 0.03 | 0.974 | -.0089798 | .0092806   |
|     debt       | -.0059285  | .0009564   | -6.20 | 0.000 | -.007803   | -.0040539  |
|     deficit    | 7.46e-08   | 1.95e-08   | 3.83 | 0.000 | 3.64e-08   | 1.13e-07   |
|   party_type   |             |            |   |     |             |             |
|     National   | .3870404   | .2461626   | 1.57 | 0.116 | -.0954295 | .8695102   |
|     Provincial | .4901731   | 1.287683   | 0.38 | 0.703 | -2.033639 | 3.013985   |
|   win_margin   | -.0017818  | .0018813   | -0.95 | 0.344 | -.005469   | .0019055   |
|   abstentionism | .0061601   | .0039276   | 1.57 | 0.117 | -.0015378 | .013858    |
|   pop_share014 | .0137764   | .0086883   | 1.59 | 0.113 | -.0032524 | .0308053   |
|   pop_share65plus | .0541782   | .0200636   | 2.70 | 0.007 | .0148542   | .0935022   |
|   _cons        | 1.059775   | 1.198062   | 0.88 | 0.376 | -1.288384 | 3.407933   |
+-----+-----+-----+-----+-----+-----+

```

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L1_rpc_salaries L2.L1_rpc_salaries L3.L1_rpc_salaries
  L4.L1_rpc_salaries L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex
  L4.2.sex L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp
  L2.gdp L3.gdp L4.gdp L4.interest_rate L2.debt L3.debt L4.debt L1.deficit
  L2.deficit L3.deficit L4.deficit L1.2bn.party_type L2.2bn.party_type
  L3.2bn.party_type L4.2bn.party_type L1.3.party_type L2.3.party_type
  L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin L3.win_margin
  L4.win_margin L1.abstentionism L2.abstentionism L3.abstentionism
  L4.abstentionism L1.pop_share014 L2.pop_share014 L3.pop_share014
  L4.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus
  L4.pop_share65plus
2, model(level):
  D.L1_rpc_salaries D.Age D.2.sex D.k_12centers D.gdp D.interest_rate D.debt
  D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(47)      =    54.1551
                                                         Prob > chi2    =    0.2202

```

```

2-step moment functions, 3-step weighting matrix      chi2(47)      =    62.7819
                                                         Prob > chi2    =    0.0616

```

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = -4.4840 Prob > |z| = 0.0000
H0: no autocorrelation of order 2: z = 0.5326 Prob > |z| = 0.5943

Generalized method of moments estimation

```

Fitting full model:
Step 1      f(b) =   .00982259
Step 2      f(b) =   .16785549

```

```

Fitting reduced model 2:
Step 1      f(b) =   5.791e-17

```

```

Group variable: mun_id      Number of obs      =    1042
Time variable: year        Number of groups   =     81

```

```

Moment conditions:      linear =     25      Obs per group:      min =     10
                        nonlinear =     0      avg =    12.8642
                        total =     25      max =     13

```

(Std. err. adjusted for 81 clusters in mun_id)

l_rpc_salaries	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_salaries						
L1.	.8584652	.1064036	8.07	0.000	.6499179	1.067012
L2.	.1116033	.0986844	1.13	0.258	-.0818145	.3050211
elec_t	-.0308545	.0202297	-1.53	0.127	-.070504	.0087949
Age	-.0014077	.0036152	-0.39	0.697	-.0084933	.0056779
sex						
Male	-.0600829	.0655656	-0.92	0.359	-.1885892	.0684233
k_12centers	-.0005175	.0005832	-0.89	0.375	-.0016605	.0006256
gdp	2.06e-08	6.74e-09	3.06	0.002	7.41e-09	3.38e-08
interest_rate	-.0123192	.0065958	-1.87	0.062	-.0252468	.0006084
debt	-.0107539	.0031523	-3.41	0.001	-.0169323	-.0045756
deficit	8.26e-08	3.92e-08	2.11	0.035	5.80e-09	1.59e-07
party_type						
National	.2492592	.4951007	0.50	0.615	-.7211203	1.219639
Provincial	.2132064	3.024241	0.07	0.944	-5.714197	6.14061
win_margin	.000345	.0032715	0.11	0.916	-.006067	.006757

abstentionism	.008337	.0055784	1.49	0.135	-.0025964	.0192705
pop_share014	.0306992	.0112856	2.72	0.007	.0085798	.0528187
pop_share65plus	.0782943	.034605	2.26	0.024	.0104697	.146119
_cons	-1.34812	1.102603	-1.22	0.221	-3.509182	.8129428

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L2.1_rpc_salaries L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
  L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
  L1.abstentionism L1.pop_share014 L1.pop_share65plus
2, model(level):
  D.L.1_rpc_salaries D.L2.1_rpc_salaries D.elec_t D.Age D.2.sex D.k_12centers
  D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(10) = 13.5963
 Prob > chi2 = 0.1922

2-step moment functions, 3-step weighting matrix chi2(10) = 15.6409
 Prob > chi2 = 0.1104

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -3.8936 Prob > |z| = 0.0001

H0: no autocorrelation of order 2: z = -1.2988 Prob > |z| = 0.1940

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .01780442

Step 2 f(b) = .42743403

Fitting reduced model 2:

Step 1 f(b) = .26045249

Group variable: **mun_id** Number of obs = 1042
 Time variable: **year** Number of groups = 81

Moment conditions: linear = 39 Obs per group: min = 10
 nonlinear = 0 avg = 12.8642
 total = 39 max = 13

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_salaries	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_salaries						
L1.	.7451036	.1312963	5.67	0.000	.4877676	1.00244
L2.	-.0089748	.095868	-0.09	0.925	-.1968726	.178923
elec_t	-.0284859	.0196104	-1.45	0.146	-.0669215	.0099498
Age	.0035191	.0033328	1.06	0.291	-.0030131	.0100513
sex						
Male	-.0597535	.0537375	-1.11	0.266	-.165077	.04557
k_12centers	-.0000151	.0004583	-0.03	0.974	-.0009133	.0008832
gdp	1.48e-08	4.45e-09	3.32	0.001	6.06e-09	2.35e-08
interest_rate	-.0022437	.0059778	-0.38	0.707	-.0139599	.0094726
debt	-.0060331	.0016862	-3.58	0.000	-.0093381	-.0027282
deficit	8.43e-08	2.92e-08	2.89	0.004	2.71e-08	1.41e-07
party_type						
National	.1881552	.2872422	0.66	0.512	-.3748291	.7511395
Provincial	-3.08099	2.767268	-1.11	0.266	-8.504736	2.342755
win_margin	-7.31e-06	.0037049	-0.00	0.998	-.0072688	.0072542
abstentionism	.0058632	.005516	1.06	0.288	-.0049479	.0166743
pop_share014	.0077441	.013996	0.55	0.580	-.0196876	.0351758

pop_share65plus	.058537	.0238812	2.45	0.014	.0117306	.1053434
_cons	1.309612	1.523245	0.86	0.390	-1.675893	4.295118

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L2.l_rpc_salaries L2.L2.l_rpc_salaries L1.Age L2.Age L1.2.sex L2.2.sex
  L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
  L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
  L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
  L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
  L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
2, model(level):
  D.L.l_rpc_salaries D.L2.l_rpc_salaries D.elec_t D.Age D.2.sex D.k_12centers
  D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(24) = 34.6222
 Prob > chi2 = 0.0742

2-step moment functions, 3-step weighting matrix chi2(24) = 52.0335
 Prob > chi2 = 0.0008

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -4.0875 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = 0.4287 Prob > |z| = 0.6682

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .02161904

Step 2 f(b) = .54076385

Fitting reduced model 2:

Step 1 f(b) = .39770922

Group variable: **mun_id** Number of obs = 1042

Time variable: **year** Number of groups = 81

Moment conditions: linear = 51 Obs per group: min = 10
 nonlinear = 0 avg = 12.8642
 total = 51 max = 13

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_salaries	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_salaries						
L1.	.7004436	.1603389	4.37	0.000	.3861851	1.014702
L2.	.0258937	.0820713	0.32	0.752	-.1349631	.1867505
elec_t	-.0164086	.0160263	-1.02	0.306	-.0478195	.0150024
Age	.0017105	.0032326	0.53	0.597	-.0046253	.0080464
sex						
Male	-.018633	.0517619	-0.36	0.719	-.1200845	.0828185
k_12centers	-.0001411	.0003579	-0.39	0.694	-.0008426	.0005605
gdp	1.35e-08	4.16e-09	3.24	0.001	5.33e-09	2.16e-08
interest_rate	-.002853	.0057808	-0.49	0.622	-.0141831	.0084771
debt	-.0049781	.0015314	-3.25	0.001	-.0079795	-.0019766
deficit	6.18e-08	2.32e-08	2.66	0.008	1.63e-08	1.07e-07
party_type						
National	.4564363	.3313218	1.38	0.168	-.1929424	1.105815
Provincial	-2.126322	2.219633	-0.96	0.338	-6.476723	2.224079
win_margin	-.000037	.0037784	-0.01	0.992	-.0074424	.0073685
abstentionism	.0012047	.0056234	0.21	0.830	-.0098169	.0122263

pop_share014	.0112514	.0139893	0.80	0.421	-.0161671	.0386699
pop_share65plus	.0489392	.0198039	2.47	0.013	.0101243	.0877541
_cons	1.446833	1.89613	0.76	0.445	-2.269513	5.163179

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L2.1_rpc_salaries L2.L2.1_rpc_salaries L3.L2.1_rpc_salaries L1.Age
  L2.Age L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
  L3.k_12centers L1.gdp L2.gdp L3.gdp L3.interest_rate L1.debt L2.debt
  L3.debt L1.deficit L2.deficit L3.deficit L1.2bn.party_type
  L2.2bn.party_type L3.2bn.party_type L1.3.party_type L2.3.party_type
  L3.3.party_type L1.win_margin L2.win_margin L3.win_margin L1.abstentionism
  L2.abstentionism L3.abstentionism L1.pop_share014 L2.pop_share014
  L3.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus
2, model(level):
  D.L1.1_rpc_salaries D.L2.1_rpc_salaries D.elec_t D.Age D.2.sex D.k_12centers
  D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(36) = 43.8019
 Prob > chi2 = 0.1742

2-step moment functions, 3-step weighting matrix chi2(36) = 62.4638
 Prob > chi2 = 0.0040

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -3.6601 Prob > |z| = 0.0003

H0: no autocorrelation of order 2: z = 0.1445 Prob > |z| = 0.8851

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .02477795

Step 2 f(b) = .65622566

Fitting reduced model 2:

Step 1 f(b) = .47468183

Group variable: **mun_id** Number of obs = 1042

Time variable: **year** Number of groups = 81

Moment conditions: linear = 61 Obs per group: min = 10
 nonlinear = 0 avg = 12.8642
 total = 61 max = 13

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_salaries	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_salaries						
L1.	.6771882	.1169343	5.79	0.000	.4480011	.9063753
L2.	.037445	.0869078	0.43	0.667	-.1328911	.2077812
elec_t	-.0219683	.0169939	-1.29	0.196	-.0552757	.0113391
Age	.0009219	.0019316	0.48	0.633	-.0028641	.0047078
sex						
Male	-.0268874	.0449301	-0.60	0.550	-.1149487	.0611739
k_12centers	-.000395	.0003319	-1.19	0.234	-.0010455	.0002554
gdp	1.44e-08	4.60e-09	3.12	0.002	5.35e-09	2.34e-08
interest_rate	-.0007961	.0049369	-0.16	0.872	-.0104723	.0088801
debt	-.0056385	.0016546	-3.41	0.001	-.0088814	-.0023955
deficit	7.26e-08	2.33e-08	3.12	0.002	2.70e-08	1.18e-07
party_type						
National	.4305798	.2572054	1.67	0.094	-.0735335	.9346931
Provincial	-.0915991	1.3102	-0.07	0.944	-2.659543	2.476345

win_margin	-.0010839	.002412	-0.45	0.653	-.0058113	.0036435
abstentionism	.0029684	.0050412	0.59	0.556	-.0069121	.0128489
pop_share014	.0070631	.011177	0.63	0.527	-.0148435	.0289696
pop_share65plus	.0533708	.0223759	2.39	0.017	.0095149	.0972268
_cons	1.618777	1.559018	1.04	0.299	-1.436843	4.674397

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L2.l_rpc_salaries L2.L2.l_rpc_salaries L3.L2.l_rpc_salaries
  L4.L2.l_rpc_salaries L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex
  L4.2.sex L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp
  L2.gdp L3.gdp L4.gdp L1.debt L3.debt L4.debt L1.deficit L2.deficit
  L3.deficit L4.deficit L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type
  L4.2bn.party_type L1.3.party_type L2.3.party_type L3.3.party_type
  L4.3.party_type L1.win_margin L2.win_margin L3.win_margin L4.win_margin
  L1.abstentionism L2.abstentionism L3.abstentionism L4.abstentionism
  L1.pop_share014 L2.pop_share014 L3.pop_share014 L4.pop_share014
  L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus L4.pop_share65plus
2, model(level):
  D.L.l_rpc_salaries D.L2.l_rpc_salaries D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix	chi2(46)	=	53.1543
	Prob > chi2	=	0.2180

2-step moment functions, 3-step weighting matrix	chi2(46)	=	65.3572
	Prob > chi2	=	0.0317

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1:	z =	-4.3028	Prob > z =	0.0000
H0: no autocorrelation of order 2:	z =	0.1724	Prob > z =	0.8631

Generalized method of moments estimation

Fitting full model:

Step 1	f(b) =	.00465436
Step 2	f(b) =	.24712279

Fitting reduced model 2:

Step 1	f(b) =	4.332e-19
--------	--------	-----------

Group variable: mun_id	Number of obs	=	1125
Time variable: year	Number of groups	=	81

Moment conditions:	linear =	25	Obs per group:	min =	11
	nonlinear =	0		avg =	13.88889
	total =	25		max =	14

(Std. err. adjusted for 81 clusters in mun_id)

l_rpc_salaries	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_salaries						
L1.	.7790139	.1957437	3.98	0.000	.3953634	1.162665
elec_t						
--.	-.0119679	.030385	-0.39	0.694	-.0715214	.0475856
L1.	.0300134	.0227864	1.32	0.188	-.0146472	.0746739
Age	.0010036	.0033135	0.30	0.762	-.0054907	.0074979
sex						
Male	-.0713449	.0561681	-1.27	0.204	-.1814323	.0387425
k_12centers	-.0008347	.0004583	-1.82	0.069	-.0017329	.0000635
gdp	1.99e-08	6.58e-09	3.02	0.003	6.98e-09	3.28e-08

interest_rate	-.0022881	.0094511	-0.24	0.809	-.0208119	.0162357
debt	-.0072342	.0022655	-3.19	0.001	-.0116745	-.002794
deficit	4.99e-08	4.10e-08	1.22	0.223	-3.04e-08	1.30e-07
party_type						
National	.1771032	.2619183	0.68	0.499	-.3362472	.6904536
Provincial	2.800537	2.174137	1.29	0.198	-1.460693	7.061766
win_margin	-.0019352	.0026678	-0.73	0.468	-.0071639	.0032935
abstentionism	.0123249	.0056329	2.19	0.029	.0012846	.0233651
pop_share014	.0233587	.0146676	1.59	0.111	-.0053893	.0521068
pop_share65plus	.0722747	.032427	2.23	0.026	.0087189	.1358305
_cons	.1159699	1.870558	0.06	0.951	-3.550255	3.782195

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
```

L1.L1_rpc_salaries L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
L1.abstentionism L1.pop_share014 L1.pop_share65plus

```
2, model(level):
```

D.L1_rpc_salaries D.elec_t D.L.elec_t D.Age D.2.sex D.k_12centers D.gdp
D.interest_rate D.debt D.deficit

```
3, model(levēl):
```

cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

[illegible][illegible]

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: $z = -4.2629$ Prob > $|z| = 0.0000$

H0: no autocorrelation of order 2: $z =$ **0.4515** Prob $> |z| =$ **0.6517**

Generalized method of moments estimation

Fitting full model:

Step 1 $f(b) = .01179731$

Step 2 $f(b) = .48123708$

Fitting reduced model 2:

Step 1 $f(b) = .31468819$

Group variable: **mun_id**

```
Number of obs      =      1125
```

Time variable: **year** Number of groups = **81**

Moment conditions:	linear =	39	Obs per group:	min =	11
	nonlinear =	0		avg =	13.88889
	total =	39		max =	14

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_salaries	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_salaries						
L1.	.7487104	.1684819	4.44	0.000	.4184918	1.078929
elec_t						
--.	-.0037658	.0188929	-0.20	0.842	-.0407952	.0332636
L1.	.0398226	.0186632	2.13	0.033	.0032433	.0764019
Age	.0002668	.0028222	0.09	0.925	-.0052647	.0057983
sex						
Male	-.0208405	.0507758	-0.41	0.681	-.1203592	.0786782
k_12centers	-.00077	.0004123	-1.87	0.062	-.0015781	.0000381
gdp	1.85e-08	4.16e-09	4.45	0.000	1.04e-08	2.67e-08

interest_rate	.0041755	.0065054	0.64	0.521	-.0085749	.016926
debt	-.0052323	.0013126	-3.99	0.000	-.0078049	-.0026597
deficit	3.29e-08	2.89e-08	1.14	0.254	-2.37e-08	8.95e-08
party_type						
National	.1217358	.252635	0.48	0.630	-.3734198	.6168913
Provincial	.7595142	1.414077	0.54	0.591	-2.012026	3.531054
win_margin	-.0025441	.0034656	-0.73	0.463	-.0093365	.0042483
abstentionism	.0072028	.0035992	2.00	0.045	.0001485	.0142571
pop_share014	.0199663	.0111951	1.78	0.075	-.0019757	.0419082
pop_share65plus	.0512781	.0184905	2.77	0.006	.0150373	.0875188
_cons	.8823781	1.699973	0.52	0.604	-2.449509	4.214265

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L1_rpc_salaries L2.L1_rpc_salaries L1.Age L2.Age L1.2.sex L2.2.sex
  L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
  L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
  L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
  L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
  L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
2, model(level):
  D.L1_rpc_salaries D.elec_t D.L.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(24) = 38.9802
 Prob > chi2 = 0.0274

2-step moment functions, 3-step weighting matrix chi2(24) = 41.2428
 Prob > chi2 = 0.0157

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -4.1031 Prob > |z| = 0.0000
 H0: no autocorrelation of order 2: z = 0.4552 Prob > |z| = 0.6489

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .02468639
 Step 2 f(b) = .5570831

Fitting reduced model 2:

Step 1 f(b) = .52401304

Group variable: **mun_id** Number of obs = 1125
 Time variable: **year** Number of groups = 81

Moment conditions: linear = 51 Obs per group: min = 11
 nonlinear = 0 avg = 13.88889
 total = 51 max = 14

(Std. err. adjusted for 81 clusters in **mun_id**)

	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_salaries						
l_rpc_salaries						
L1.	.7133931	.1331488	5.36	0.000	.4524262	.97436
elec_t						
--.	-.0081847	.0178965	-0.46	0.647	-.0432612	.0268918
L1.	.0391841	.016954	2.31	0.021	.0059548	.0724133
Age	.0009231	.0027735	0.33	0.739	-.0045128	.006359
sex						

Male	-.003799	.0444322	-0.09	0.932	-.0908845	.0832864
k_12centers	-.0007123	.0003449	-2.07	0.039	-.0013884	-.0000363
gdp	2.00e-08	3.45e-09	5.80	0.000	1.32e-08	2.68e-08
interest_rate	.0028105	.0054289	0.52	0.605	-.0078298	.0134509
debt	-.0052857	.0013471	-3.92	0.000	-.007926	-.0026454
deficit	4.19e-08	2.67e-08	1.57	0.117	-1.05e-08	9.42e-08
party_type						
National	.2033411	.2733611	0.74	0.457	-.3324368	.7391189
Provincial	-.3120273	1.700072	-0.18	0.854	-3.644108	3.020054
win_margin	-.0014056	.0027646	-0.51	0.611	-.0068241	.0040128
abstentionism	.0066749	.0048009	1.39	0.164	-.0027348	.0160845
pop_share014	.0175082	.0098482	1.78	0.075	-.0017939	.0368103
pop_share65plus	.0443304	.0218604	2.03	0.043	.0014849	.0871759
_cons	1.204292	1.451467	0.83	0.407	-1.64053	4.049114

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L.1_rpc_salaries L2.L.1_rpc_salaries L3.L.1_rpc_salaries L1.Age L2.Age
 L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
 L3.k_12centers L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate
 L3.interest_rate L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit
 L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L1.3.party_type
 L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
 L1.abstentionism L2.abstentionism L3.abstentionism L1.pop_share014
 L2.pop_share014 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus
 L3.pop_share65plus

2, model(level):

D.L.1_rpc_salaries D.Age D.2.sex D.k_12centers D.gdp D.interest_rate D.debt
 D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(36) = 45.1237
 Prob > chi2 = 0.1416

2-step moment functions, 3-step weighting matrix chi2(36) = 56.7216
 Prob > chi2 = 0.0153

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -4.0117 Prob > |z| = 0.0001

H0: no autocorrelation of order 2: z = 0.3946 Prob > |z| = 0.6931

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .02731976

Step 2 f(b) = .61055787

Fitting reduced model 2:

Step 1 f(b) = .52701253

Group variable: **mun_id** Number of obs = 1125
 Time variable: **year** Number of groups = 81

Moment conditions: linear = 61 Obs per group: min = 11
 nonlinear = 0 avg = 13.88889
 total = 61 max = 14

(Std. err. adjusted for 81 clusters in `mun_id`)

<code>l_rpc_salaries</code>	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
<code>l_rpc_salaries</code>						
<code>L1.</code>	.7173132	.1075233	6.67	0.000	.5065713	.928055
<code>elec_t</code>						
<code>--.</code>	.0002814	.0187736	0.01	0.988	-.0365143	.037077
<code>L1.</code>	.0465182	.0192403	2.42	0.016	.008808	.0842285
<code>Age</code>	.0007523	.0021636	0.35	0.728	-.0034884	.0049929
<code>sex</code>						
<code>Male</code>	-.0056006	.0373148	-0.15	0.881	-.0787361	.067535
<code>k_12centers</code>	-.0008043	.0002762	-2.91	0.004	-.0013456	-.000263
<code>gdp</code>	1.95e-08	3.40e-09	5.75	0.000	1.29e-08	2.62e-08
<code>interest_rate</code>	.0053521	.0053505	1.00	0.317	-.0051346	.0158388
<code>debt</code>	-.0047268	.0012306	-3.84	0.000	-.0071387	-.0023148
<code>deficit</code>	3.29e-08	2.99e-08	1.10	0.272	-2.58e-08	9.16e-08
<code>party_type</code>						
<code>National</code>	.2125845	.2274155	0.93	0.350	-.2331418	.6583107
<code>Provincial</code>	.4127618	1.22537	0.34	0.736	-1.98892	2.814443
<code>win_margin</code>	-.0014506	.0016996	-0.85	0.393	-.0047818	.0018806
<code>abstentionism</code>	.0069532	.0038221	1.82	0.069	-.000538	.0144445
<code>pop_share014</code>	.0170989	.0089234	1.92	0.055	-.0003906	.0345885
<code>pop_share65plus</code>	.0384544	.0215901	1.78	0.075	-.0038614	.0807701
<code>_cons</code>	1.155674	1.119659	1.03	0.302	-1.038818	3.350167

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L1_rpc_salaries L2.L1_rpc_salaries L3.L1_rpc_salaries
  L4.L1_rpc_salaries L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex
  L4.2.sex L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp
  L2.gdp L3.gdp L4.gdp L4.interest_rate L2.debt L3.debt L4.debt L1.deficit
  L2.deficit L3.deficit L4.deficit L1.2bn.party_type L2.2bn.party_type
  L3.2bn.party_type L4.2bn.party_type L1.3.party_type L2.3.party_type
  L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin L3.win_margin
  L4.win_margin L1.abstentionism L2.abstentionism L3.abstentionism
  L4.abstentionism L1.pop_share014 L2.pop_share014 L3.pop_share014
  L4.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus
  L4.pop_share65plus
2, model(level):
  D.L1_rpc_salaries D.Age D.2.sex D.k_12centers D.gdp D.interest_rate D.debt
  D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(46)    =    49.4552
                                                        Prob > chi2 =    0.3370

```

```

2-step moment functions, 3-step weighting matrix      chi2(46)    =    65.1174
                                                        Prob > chi2 =    0.0331

```

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-4.3153** Prob > |z| = **0.0000**H0: no autocorrelation of order 2: z = **0.4220** Prob > |z| = **0.6730**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.00960527**Step 2 f(b) = **.17047586**

Group variable: **mun_id** Number of obs = **1042**
 Time variable: **year** Number of groups = **81**

Moment conditions: linear = **26** Obs per group: min = **10**
 nonlinear = **0** avg = **12.8642**
 total = **26** max = **13**

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_salaries	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_salaries						
L1.	.8432925	.1114534	7.57	0.000	.6248478	1.061737
L2.	.1093183	.0994074	1.10	0.271	-.0855166	.3041533
elec_t						
--.	-.0048263	.0337378	-0.14	0.886	-.0709512	.0612986
L1.	.0327499	.0247451	1.32	0.186	-.0157496	.0812494
Age	-.0014432	.0038001	-0.38	0.704	-.0088913	.0060049
sex						
Male	-.0630686	.0661725	-0.95	0.341	-.1927643	.0666271
k_12centers	-.0004626	.0005675	-0.82	0.415	-.0015749	.0006497
gdp	2.02e-08	7.02e-09	2.87	0.004	6.41e-09	3.39e-08
interest_rate	-.0051574	.0077542	-0.67	0.506	-.0203553	.0100406
debt	-.0099068	.0036893	-2.69	0.007	-.0171378	-.0026759
deficit	5.88e-08	5.44e-08	1.08	0.279	-4.78e-08	1.65e-07
party_type						
National	.2534206	.5052606	0.50	0.616	-.736872	1.243713
Provincial	-.053663	3.05997	-0.02	0.986	-6.051094	5.943768
win_margin	.0001114	.0033378	0.03	0.973	-.0064306	.0066534
abstentionism	.0091134	.0057654	1.58	0.114	-.0021866	.0204135
pop_share014	.0314362	.0115569	2.72	0.007	.008785	.0540874
pop_share65plus	.0814794	.034607	2.35	0.019	.0136511	.1493078
_cons	-1.401544	1.147222	-1.22	0.222	-3.650058	.8469697

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L2.l_rpc_salaries L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
  L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
  L1.abstentionism L1.pop_share014 L1.pop_share65plus
2, model(level):
  D.L.l_rpc_salaries D.L2.l_rpc_salaries D.elec_t D.L.elec_t D.Age D.2.sex
  D.k_12centers D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(10) = **13.8085**
 Prob > chi2 = **0.1819**

2-step moment functions, 3-step weighting matrix chi2(10) = **15.1456**
 Prob > chi2 = **0.1268**

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-3.6661** Prob > |z| = **0.0002**
 H0: no autocorrelation of order 2: z = **-1.4100** Prob > |z| = **0.1586**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.0173766**
 Step 2 f(b) = **.41888028**

Fitting reduced model 2:
Step 1 f(b) = .22472683

Group variable: **mun_id** Number of obs = 1042
Time variable: **year** Number of groups = 81

Moment conditions: linear = 40 Obs per group: min = 10
nonlinear = 0 avg = 12.8642
total = 40 max = 13

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_salaries	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_salaries						
L1.	.7241313	.1335292	5.42	0.000	.4624188	.9858437
L2.	.013071	.1148137	0.11	0.909	-.2119597	.2381017
elec_t						
L1.	-.0126142	.0277833	-0.45	0.650	-.0670685	.0418401
L2.	.0238797	.0243216	0.98	0.326	-.0237898	.0715492
Age	.00224	.0038768	0.58	0.563	-.0053583	.0098382
sex						
Male	-.0491424	.059441	-0.83	0.408	-.1656447	.0673599
k_12centers	-.0000227	.0005108	-0.04	0.965	-.0010239	.0009785
gdp	1.52e-08	4.38e-09	3.47	0.001	6.62e-09	2.38e-08
interest_rate	.0019434	.0066903	0.29	0.771	-.0111694	.0150563
debt	-.0056598	.0018952	-2.99	0.003	-.0093742	-.0019454
deficit	6.42e-08	4.76e-08	1.35	0.178	-2.91e-08	1.58e-07
party_type						
National	.0843226	.3139121	0.27	0.788	-.5309337	.699579
Provincial	-3.440944	2.842718	-1.21	0.226	-9.012568	2.130681
win_margin	.0007791	.0038901	0.20	0.841	-.0068454	.0084035
abstentionism	.0044421	.0057869	0.77	0.443	-.0069001	.0157842
pop_share014	.0111005	.017288	0.64	0.521	-.0227833	.0449844
pop_share65plus	.0563685	.0233295	2.42	0.016	.0106435	.1020935
_cons	1.38525	1.635149	0.85	0.397	-1.819584	4.590084

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L2.1_rpc_salaries L2.L2.1_rpc_salaries L1.Age L2.Age L1.2.sex L2.2.sex
  L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
  L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
  L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
  L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
  L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
2, model(level):
  D.L.1_rpc_salaries D.L2.1_rpc_salaries D.elec_t D.L.elec_t D.Age D.2.sex
  D.k_12centers D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(24) = 33.9293
Prob > chi2 = 0.0859

2-step moment functions, 3-step weighting matrix chi2(24) = 56.1857
Prob > chi2 = 0.0002

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -3.4633 Prob > |z| = 0.0005

H0: no autocorrelation of order 2: z = 0.0331 Prob > |z| = 0.9736

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .02076102

Step 2 f(b) = .52507425

Fitting reduced model 2:

Step 1 f(b) = .37476192

Group variable: **mun_id**

Number of obs = 1042

Time variable: **year**

Number of groups = 81

Moment conditions:	linear =	51	Obs per group:	min =	10
	nonlinear =	0		avg =	12.8642
	total =	51		max =	13

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_salaries	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_salaries						
L1.	.6542852	.1552712	4.21	0.000	.3499592	.9586112
L2.	.0362632	.088213	0.41	0.681	-.1366311	.2091574
elec_t						
L1.	-.0063595	.0186196	-0.34	0.733	-.0428533	.0301342
L2.	.0282492	.0190388	1.48	0.138	-.009066	.0655645
Age	.0005923	.0036018	0.16	0.869	-.0064671	.0076516
sex						
Male	-.0033749	.0545754	-0.06	0.951	-.1103407	.103591
k_12centers	-.0003269	.0004077	-0.80	0.423	-.001126	.0004721
gdp	1.56e-08	3.90e-09	4.01	0.000	7.98e-09	2.33e-08
interest_rate	.0023097	.006285	0.37	0.713	-.0100087	.014628
debt	-.0046434	.0014794	-3.14	0.002	-.0075429	-.0017439
deficit	3.96e-08	3.22e-08	1.23	0.218	-2.34e-08	1.03e-07
party_type						
National	.3529533	.3502275	1.01	0.314	-.33348	1.039387
Provincial	-2.000125	2.179227	-0.92	0.359	-6.271332	2.271083
win_margin	.0006649	.0034992	0.19	0.849	-.0061933	.0075231
abstentionism	.0007459	.0053618	0.14	0.889	-.0097631	.0112549
pop_share014	.0141545	.0141164	1.00	0.316	-.0135131	.0418222
pop_share65plus	.0482732	.0184717	2.61	0.009	.0120693	.0844771
_cons	1.759531	1.856723	0.95	0.343	-1.879579	5.398641

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.l_rpc_salaries L2.L2.l_rpc_salaries L3.L2.l_rpc_salaries L1.Age

L2.Age L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers

L3.k_12centers L1.gdp L2.gdp L3.gdp L3.interest_rate L1.debt L2.debt

L3.debt L1.deficit L2.deficit L3.deficit L1.2bn.party_type

L2.2bn.party_type L3.2bn.party_type L1.3.party_type L2.3.party_type

L3.3.party_type L1.win_margin L2.win_margin L3.win_margin L1.abstentionism

L2.abstentionism L3.abstentionism L1.pop_share014 L2.pop_share014

L3.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus

2, model(level):

D.L.l_rpc_salaries D.L2.l_rpc_salaries D.elec_t D.Age D.2.sex D.k_12centers

D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix	chi2(35)	=	42.5310
	Prob > chi2	=	0.1785

2-step moment functions, 3-step weighting matrix	chi2(35)	=	62.2301
	Prob > chi2	=	0.0031

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-3.1849** Prob > |z| = **0.0014**
H0: no autocorrelation of order 2: z = **-0.1252** Prob > |z| = **0.9004**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.02393541**
Step 2 f(b) = **.64558709**

Fitting reduced model 2:

Step 1 f(b) = **.47444638**

Group variable: **mun_id** Number of obs = **1042**
Time variable: **year** Number of groups = **81**

Moment conditions: linear = **61** Obs per group: min = **10**
nonlinear = **0** avg = **12.8642**
total = **61** max = **13**

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_salaries	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_salaries						
L1.	.6695096	.109908	6.09	0.000	.4540938	.8849254
L2.	.0391072	.0837369	0.47	0.640	-.1250141	.2032286
elec_t						
L1.	-.0080863	.0221827	-0.36	0.715	-.0515636	.0353909
Age	.0291995	.0203231	1.44	0.151	-.0106331	.0690321
sex						
Male	.0007526	.0018913	0.40	0.691	-.0029544	.0044595
k_12centers	-.0150915	.0444055	-0.34	0.734	-.1021248	.0719418
gdp	-.0005795	.000345	-1.68	0.093	-.0012556	.0000966
interest_rate	1.67e-08	4.07e-09	4.11	0.000	8.74e-09	2.47e-08
debt	.0030795	.0056183	0.55	0.584	-.0079321	.0140911
deficit	-.0053487	.0016879	-3.17	0.002	-.008657	-.0020405
party_type	5.12e-08	3.25e-08	1.58	0.115	-1.25e-08	1.15e-07
National	.3430053	.2216142	1.55	0.122	-.0913505	.7773612
Provincial	.0202756	1.183999	0.02	0.986	-2.300319	2.340871
win_margin	-.0011471	.0021827	-0.53	0.599	-.0054251	.003131
abstentionism	.0039307	.0043	0.91	0.361	-.0044972	.0123586
pop_share014	.0109309	.0117029	0.93	0.350	-.0120063	.0338682
pop_share65plus	.046771	.0224433	2.08	0.037	.002783	.090759
_cons	1.530241	1.413803	1.08	0.279	-1.240763	4.301244

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.1_rpc_salaries L2.L2.1_rpc_salaries L3.L2.1_rpc_salaries
L4.L2.1_rpc_salaries L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex
L4.2.sex L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp
L2.gdp L3.gdp L4.gdp L1.debt L3.debt L4.debt L1.deficit L2.deficit
L3.deficit L4.deficit L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type
L4.2bn.party_type L1.3.party_type L2.3.party_type L3.3.party_type
L4.3.party_type L1.win_margin L2.win_margin L3.win_margin L4.win_margin
L1.abstentionism L2.abstentionism L3.abstentionism L4.abstentionism
L1.pop_share014 L2.pop_share014 L3.pop_share014 L4.pop_share014
L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus L4.pop_share65plus

2, model(level):

D.L.1_rpc_salaries D.L2.1_rpc_salaries D.Age D.2.sex D.k_12centers D.gdp
D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix $\chi^2(45) = 52.2926$
Prob > $\chi^2 = 0.2118$

2-step moment functions, 3-step weighting matrix $\chi^2(45) = 64.8302$
Prob > $\chi^2 = 0.0279$

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: $z = -4.1959$ Prob > $|z| = 0.0000$
H0: no autocorrelation of order 2: $z = 0.0756$ Prob > $|z| = 0.9397$

Generalized method of moments estimation

Fitting full model:

Step 1 $f(b) = .07919256$
Step 2 $f(b) = .31515698$

Fitting reduced model 2:

Step 1 $f(b) = 1.695e-20$

Group variable: **mun_id** Number of obs = 1092
Time variable: **year** Number of groups = 81

Moment conditions: linear = 24 Obs per group: min = 5
 nonlinear = 0 avg = 13.48148
 total = 24 max = 14

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_ext_time	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_ext_time						
L1.	.7441515	.0944187	7.88	0.000	.5590943	.9292088
elec_t	.1172897	.0695575	1.69	0.092	-.0190405	.2536199
Age	-.006451	.0094362	-0.68	0.494	-.0249455	.0120435
sex						
Male	.0406455	.1246807	0.33	0.744	-.2037242	.2850153
k_12centers	-.0010109	.0015818	-0.64	0.523	-.0041113	.0020894
gdp	1.13e-08	1.40e-08	0.80	0.421	-1.62e-08	3.87e-08
interest_rate	-.022648	.0210738	-1.07	0.283	-.0639519	.0186559
debt	-.0120179	.0068577	-1.75	0.080	-.0254587	.0014229
deficit	6.37e-08	1.08e-07	0.59	0.557	-1.49e-07	2.76e-07
party_type						
National	-.9154797	.6550869	-1.40	0.162	-2.199426	.3684671
Provincial	8.273838	8.23005	1.01	0.315	-7.856764	24.40444
win_margin	.001438	.0234784	0.06	0.951	-.0445788	.0474547
abstentionism	-.0027783	.0216908	-0.13	0.898	-.0452915	.0397349
pop_share014	.0139114	.0424059	0.33	0.743	-.0692027	.0970255
pop_share65plus	-.0080568	.0993913	-0.08	0.935	-.2028601	.1867466
_cons	3.32488	1.746679	1.90	0.057	-.0985493	6.748308

Instruments corresponding to the linear moment conditions:

- 1, model(diff):
 - L1.L1_rpc_ext_time L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
 - L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
 - L1.abstentionism L1.pop_share014 L1.pop_share65plus
- 2, model(level):
 - D.L1_rpc_ext_time D.elec_t D.Age D.2.sex D.k_12centers D.gdp
 - D.interest_rate D.debt D.deficit
- 3, model(level):
 - _cons

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix $\chi^2(10) = 25.5277$
 Prob > $\chi^2 = 0.0044$

2-step moment functions, 3-step weighting matrix $\chi^2(10) = 33.2187$
 Prob > $\chi^2 = 0.0003$

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: $z = -4.7224$ Prob > $|z| = 0.0000$
 H0: no autocorrelation of order 2: $z = 0.5656$ Prob > $|z| = 0.5716$

Generalized method of moments estimation

Fitting full model:

Step 1 $f(b) = .18258521$
 Step 2 $f(b) = .5353517$

Fitting reduced model 2:

Step 1 $f(b) = .36630616$

Group variable: **mun_id** Number of obs = 1092
 Time variable: **year** Number of groups = 81

Moment conditions: linear = 38 Obs per group: min = 5
 nonlinear = 0 avg = 13.48148
 total = 38 max = 14

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_ext_time	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_ext_time						
L1.	.6678508	.0818573	8.16	0.000	.5074135	.8282881
elec_t	.1092955	.063607	1.72	0.086	-.015372	.233963
Age	-.0129212	.0095323	-1.36	0.175	-.0316042	.0057619
sex						
Male	.0558563	.1401468	0.40	0.690	-.2188263	.330539
k_12centers	-.001141	.001536	-0.74	0.458	-.0041515	.0018695
gdp	2.42e-08	1.25e-08	1.94	0.052	-2.46e-10	4.87e-08
interest_rate	-.0264936	.0193011	-1.37	0.170	-.0643231	.0113359
debt	-.0086687	.0055204	-1.57	0.116	-.0194884	.002151
deficit	-2.13e-08	7.00e-08	-0.30	0.761	-1.59e-07	1.16e-07
party_type						
National	-.4503579	.6139531	-0.73	0.463	-1.653684	.7529681
Provincial	5.463321	8.575299	0.64	0.524	-11.34396	22.2706
win_margin	-.0022465	.0097503	-0.23	0.818	-.0213567	.0168638
abstentionism	-.0122723	.0173431	-0.71	0.479	-.0462641	.0217196
pop_share014	.02608	.0302725	0.86	0.389	-.033253	.085413
pop_share65plus	-.0627873	.0850092	-0.74	0.460	-.2294023	.1038276
_cons	3.799339	1.913686	1.99	0.047	.0485834	7.550095

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L1_rpc_ext_time L2.L1_rpc_ext_time L1.Age L2.Age L1.2.sex L2.2.sex
 L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
 L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
 L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
 L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
 L2.pop_share014 L1.pop_share65plus L2.pop_share65plus

2, model(level):

D.L1_rpc_ext_time D.elec_t D.Age D.2.sex D.k_12centers D.gdp
 D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(24) = **43.3635**
 Prob > chi2 = **0.0090**

2-step moment functions, 3-step weighting matrix chi2(24) = **47.9587**
 Prob > chi2 = **0.0026**

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-4.2716** Prob > |z| = **0.0000**
 H0: no autocorrelation of order 2: z = **0.7054** Prob > |z| = **0.4806**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.28389888**

Step 2 f(b) = **.64284696**

Fitting reduced model 2:

Step 1 f(b) = **.52432726**

Group variable: **mun_id** Number of obs = **1092**
 Time variable: **year** Number of groups = **81**

Moment conditions: linear = **52** Obs per group: min = **5**
 nonlinear = **0** avg = **13.48148**
 total = **52** max = **14**

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_ext_time	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_ext_time						
L1.	.649942	.0704918	9.22	0.000	.5117807	.7881034
elec_t	.0360603	.0523962	0.69	0.491	-.0666344	.138755
Age	-.0123424	.0079734	-1.55	0.122	-.0279699	.003285
sex						
Male	.0925215	.1201689	0.77	0.441	-.1430051	.3280482
k_12centers	-.0013904	.0014733	-0.94	0.345	-.0042781	.0014972
gdp	3.46e-08	1.13e-08	3.07	0.002	1.25e-08	5.67e-08
interest_rate	-.029547	.015252	-1.94	0.053	-.0594403	.0003464
debt	-.0109204	.0046079	-2.37	0.018	-.0199517	-.0018891
deficit	-2.07e-08	5.66e-08	-0.36	0.715	-1.32e-07	9.03e-08
party_type						
National	-.1202774	.7431807	-0.16	0.871	-1.576885	1.33633
Provincial	5.693841	7.617668	0.75	0.455	-9.236515	20.6242
win_margin	-.0029256	.0066431	-0.44	0.660	-.0159459	.0100947
abstentionism	.00473	.0140098	0.34	0.736	-.0227287	.0321887
pop_share014	.0422956	.0217185	1.95	0.051	-.0002718	.084863
pop_share65plus	.0057052	.067428	0.08	0.933	-.1264513	.1378616
_cons	1.464916	1.463515	1.00	0.317	-1.403521	4.333352

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L1_rpc_ext_time L2.L1_rpc_ext_time L3.L1_rpc_ext_time L1.Age L2.Age
 L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
 L3.k_12centers L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate
 L3.interest_rate L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit
 L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L1.3.party_type
 L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
 L1.abstentionism L2.abstentionism L3.abstentionism L1.pop_share014
 L2.pop_share014 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus
 L3.pop_share65plus

2, model(level):

D.L1_rpc_ext_time D.elec_t D.Age D.2.sex D.k_12centers D.gdp
 D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(38) = 52.0706
Prob > chi2 = 0.0638

2-step moment functions, 3-step weighting matrix chi2(38) = 56.7606
Prob > chi2 = 0.0257

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = -4.6455 Prob > |z| = 0.0000
H0: no autocorrelation of order 2: z = 0.6570 Prob > |z| = 0.5112

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .33174236
Step 2 f(b) = .71172922

Fitting reduced model 2:

Step 1 f(b) = .62436552

Group variable: **mun_id** Number of obs = 1092
Time variable: **year** Number of groups = 81

Moment conditions: linear = 63 Obs per group: min = 5
 nonlinear = 0 avg = 13.48148
 total = 63 max = 14

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_ext_time	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_ext_time						
L1.	.6358911	.0637705	9.97	0.000	.5109032	.760879
elec_t	.0226008	.03957	0.57	0.568	-.0549549	.1001565
Age	-.0073969	.0071915	-1.03	0.304	-.0214921	.0066983
sex						
Male	.080388	.1004856	0.80	0.424	-.1165601	.2773361
k_12centers	-.0012543	.0011588	-1.08	0.279	-.0035256	.0010169
gdp	3.71e-08	1.13e-08	3.27	0.001	1.49e-08	5.93e-08
interest_rate	-.0312561	.0134371	-2.33	0.020	-.0575922	-.0049199
debt	-.0109398	.0042928	-2.55	0.011	-.0193535	-.0025261
deficit	4.37e-09	5.08e-08	0.09	0.931	-9.53e-08	1.04e-07
party_type						
National	-.1709027	.5812299	-0.29	0.769	-1.310092	.9682869
Provincial	4.651673	5.786929	0.80	0.421	-6.690499	15.99385
win_margin	-.0014771	.006014	-0.25	0.806	-.0132643	.0103101
abstentionism	.0051663	.0130001	0.40	0.691	-.0203134	.030646
pop_share014	.0454903	.0166035	2.74	0.006	.0129481	.0780325
pop_share65plus	-.0055449	.0546683	-0.10	0.919	-.1126927	.1016029
_cons	1.284386	1.25966	1.02	0.308	-1.184502	3.753275

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L1.l_rpc_ext_time L2.L1.l_rpc_ext_time L3.L1.l_rpc_ext_time
L4.L1.l_rpc_ext_time L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex
L4.2.sex L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp
L2.gdp L3.gdp L4.gdp L2.interest_rate L1.debt L2.debt L3.debt L4.debt
L1.deficit L2.deficit L3.deficit L4.deficit L1.2bn.party_type
L2.2bn.party_type L3.2bn.party_type L4.2bn.party_type L1.3.party_type
L2.3.party_type L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin
L3.win_margin L4.win_margin L1.abstentionism L2.abstentionism
L3.abstentionism L4.abstentionism L1.pop_share014 L2.pop_share014
L3.pop_share014 L4.pop_share014 L1.pop_share65plus L2.pop_share65plus
L3.pop_share65plus L4.pop_share65plus

2, model(level):

D.L1_rpc_ext_time D.elec_t D.Age D.2.sex D.k_12centers D.gdp
 D.interest_rate D.debt D.deficit
 3, model(level):
 _cons

Sargan-Hansen test of the overidentifying restrictions
 H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(49) = 57.6501
 Prob > chi2 = 0.1858

2-step moment functions, 3-step weighting matrix chi2(49) = 64.9820
 Prob > chi2 = 0.0628

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -4.8614 Prob > |z| = 0.0000
 H0: no autocorrelation of order 2: z = 0.6564 Prob > |z| = 0.5116

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .0496323
 Step 2 f(b) = .1184505

Fitting reduced model 2:

Step 1 f(b) = 6.905e-19

Group variable: **mun_id** Number of obs = 1007
 Time variable: **year** Number of groups = 81

Moment conditions: linear = 25 Obs per group: min = 4
 nonlinear = 0 avg = 12.4321
 total = 25 max = 13

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_ext_time	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_ext_time						
L1.	.743579	.0704938	10.55	0.000	.6054137	.8817442
L2.	.0022385	.0526925	0.04	0.966	-.1010369	.1055139
elec_t	.0509661	.060665	0.84	0.401	-.0679351	.1698673
Age	.0055057	.0076763	0.72	0.473	-.0095396	.020551
sex						
Male	-.1502349	.130452	-1.15	0.249	-.4059162	.1054463
k_12centers	.0004952	.0010889	0.45	0.649	-.001639	.0026294
gdp	5.14e-08	1.63e-08	3.16	0.002	1.95e-08	8.32e-08
interest_rate	-.0240368	.0196283	-1.22	0.221	-.0625075	.014434
debt	-.0270457	.0060349	-4.48	0.000	-.038874	-.0152174
deficit	3.55e-08	6.94e-08	0.51	0.608	-1.00e-07	1.71e-07
party_type						
National	-.1710464	.5040479	-0.34	0.734	-1.158962	.8168693
Provincial	.7633485	4.069426	0.19	0.851	-7.21258	8.739277
win_margin	.0118339	.0095198	1.24	0.214	-.0068246	.0304923
abstentionism	.0069409	.0141275	0.49	0.623	-.0207485	.0346302
pop_share014	.0340577	.016072	2.12	0.034	.0025572	.0655583
pop_share65plus	.0667126	.0656743	1.02	0.310	-.0620067	.1954318
_cons	.0595817	1.318941	0.05	0.964	-2.525496	2.644659

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.l_rpc_ext_time L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
 L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
 L1.abstentionism L1.pop_share014 L1.pop_share65plus

2, model(level):

D.L1_rpc_ext_time D.L2.l_rpc_ext_time D.elec_t D.Age D.2.sex D.k_12centers
 D.gdp D.interest_rate D.debt D.deficit

```
3, model(level):
    _cons
```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

```
2-step moment functions, 2-step weighting matrix      chi2(10)      =      9.5945
                                                         Prob > chi2    =      0.4768
```

```
2-step moment functions, 3-step weighting matrix      chi2(10)      =     12.0522
                                                         Prob > chi2    =      0.2816
```

Arellano-Bond test for autocorrelation of the first-differenced residuals

```
H0: no autocorrelation of order 1:      z =     -5.1926      Prob > |z|    =      0.0000
H0: no autocorrelation of order 2:      z =      1.4599      Prob > |z|    =      0.1443
```

Generalized method of moments estimation

Fitting full model:

```
Step 1          f(b) =      .1125013
Step 2          f(b) =      .37401989
```

Fitting reduced model 2:

```
Step 1          f(b) =      .16784506
```

```
Group variable: mun_id          Number of obs      =      1007
Time variable: year            Number of groups   =       81

Moment conditions:      linear =      39      Obs per group:   min =       4
                      nonlinear =      0      avg          =    12.4321
                      total   =      39      max          =     13
```

(Std. err. adjusted for 81 clusters in mun_id)

l_rpc_ext_time	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_ext_time						
L1.	.6566838	.0609626	10.77	0.000	.5371994	.7761683
L2.	-.0155055	.0415558	-0.37	0.709	-.0969535	.0659424
elec_t	.0303134	.0537496	0.56	0.573	-.0750339	.1356608
Age	-.003552	.0071018	-0.50	0.617	-.0174713	.0103673
sex						
Male	.0278573	.1202039	0.23	0.817	-.207738	.2634526
k_12centers	-.0004311	.0008785	-0.49	0.624	-.0021529	.0012907
gdp	4.44e-08	1.07e-08	4.14	0.000	2.34e-08	6.55e-08
interest_rate	-.0189956	.015918	-1.19	0.233	-.0501943	.012203
debt	-.0186548	.0053182	-3.51	0.000	-.0290783	-.0082314
deficit	1.52e-08	6.47e-08	0.23	0.814	-1.12e-07	1.42e-07
party_type						
National	-.1356751	.6832197	-0.20	0.843	-1.474761	1.203411
Provincial	.894187	5.206009	0.17	0.864	-9.309404	11.09778
win_margin	.0007917	.0061932	0.13	0.898	-.0113468	.0129302
abstentionism	-.0052336	.0116196	-0.45	0.652	-.0280076	.0175405
pop_share014	.0501683	.0210029	2.39	0.017	.0090033	.0913333
pop_share65plus	.0367541	.067825	0.54	0.588	-.0961804	.1696886
_cons	1.398117	1.361376	1.03	0.304	-1.27013	4.066365

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
```

```
    L1.L2.1_rpc_ext_time L2.L2.1_rpc_ext_time L1.Age L2.Age L1.2.sex L2.2.sex
    L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
    L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
    L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
    L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
    L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
```

```
2, model(level):
```

```
    D.L.1_rpc_ext_time D.L2.1_rpc_ext_time D.elec_t D.Age D.2.sex D.k_12centers
```

```

D.gdp D.interest_rate D.debt D.deficit
3, model(level):
    _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(24)    =    30.2956
                                                         Prob > chi2 =    0.1751

```

```

2-step moment functions, 3-step weighting matrix      chi2(24)    =    33.0199
                                                         Prob > chi2 =    0.1037

```

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = **-4.7254** Prob > |z| = **0.0000**
H0: no autocorrelation of order 2: z = **2.0382** Prob > |z| = **0.0415**

Generalized method of moments estimation

```

Fitting full model:
Step 1          f(b) = .17168156
Step 2          f(b) = .54508208

```

```

Fitting reduced model 2:
Step 1          f(b) = .45611933

```

```

Group variable: mun_id          Number of obs      =    1007
Time variable: year            Number of groups   =     81

```

```

Moment conditions:      linear =    53      Obs per group:   min =     4
                       nonlinear =    0      avg =    12.4321
                       total =    53      max =    13

```

(Std. err. adjusted for 81 clusters in mun_id)

l_rpc_ext_time	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_ext_time						
L1.	.6798245	.0630356	10.78	0.000	.556277	.8033719
L2.	-.0326276	.0426167	-0.77	0.444	-.1161548	.0508995
elec_t	-.028181	.0424063	-0.66	0.506	-.1112957	.0549337
Age	-.0002788	.0062873	-0.04	0.965	-.0126016	.0120441
sex						
Male	.0652895	.108302	0.60	0.547	-.1469786	.2775575
k_12centers	-.0006658	.0007548	-0.88	0.378	-.0021452	.0008136
gdp	5.86e-08	1.03e-08	5.67	0.000	3.83e-08	7.88e-08
interest_rate	-.026792	.0137706	-1.95	0.052	-.0537819	.000198
debt	-.0209014	.0043747	-4.78	0.000	-.0294756	-.0123272
deficit	5.07e-08	5.23e-08	0.97	0.332	-5.18e-08	1.53e-07
party_type						
National	-.3454569	.5449039	-0.63	0.526	-1.413449	.7225351
Provincial	5.1966	5.767586	0.90	0.368	-6.107661	16.50086
win_margin	-.0086974	.005047	-1.72	0.085	-.0185893	.0011946
abstentionism	.0119544	.0098417	1.21	0.224	-.007335	.0312438
pop_share014	.0535713	.0166095	3.23	0.001	.0210172	.0861254
pop_share65plus	.0339632	.0517429	0.66	0.512	-.067451	.1353774
_cons	.1153185	1.26356	0.09	0.927	-2.361214	2.591851

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
L1.L2.1_rpc_ext_time L2.L2.1_rpc_ext_time L3.L2.1_rpc_ext_time L1.Age
L2.Age L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
L3.k_12centers L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate
L3.interest_rate L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit
L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L1.3.party_type
L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
L1.abstentionism L2.abstentionism L3.abstentionism L1.pop_share014

```

```

L2.pop_share014 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus
L3.pop_share65plus
2, model(level):
  D.L1_rpc_ext_time D.L2.1_rpc_ext_time D.elec_t D.Age D.2.sex D.k_12centers
  D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(38) = **44.1516**
Prob > chi2 = **0.2277**

2-step moment functions, 3-step weighting matrix chi2(38) = **54.1165**
Prob > chi2 = **0.0435**

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = **-4.9137** Prob > |z| = **0.0000**
H0: no autocorrelation of order 2: z = **2.1510** Prob > |z| = **0.0315**

Generalized method of moments estimation

Fitting full model:
Step 1 f(b) = **.21562516**
Step 2 f(b) = **.63122251**

Fitting reduced model 2:
Step 1 f(b) = **.51866046**

Group variable: **mun_id** Number of obs = **1007**
Time variable: **year** Number of groups = **81**

Moment conditions: linear = **63** Obs per group: min = **4**
 nonlinear = **0** avg = **12.4321**
 total = **63** max = **13**

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_ext_time	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_ext_time						
L1.	.6711597	.0584724	11.48	0.000	.5565558	.7857636
L2.	-.0417352	.0416292	-1.00	0.316	-.1233269	.0398565
elec_t	-.0255333	.0389122	-0.66	0.512	-.1017999	.0507333
Age	.0024331	.0067588	0.36	0.719	-.0108139	.0156801
sex						
Male	.0444453	.1010291	0.44	0.660	-.1535681	.2424587
k_12centers	-.0006774	.0007768	-0.87	0.383	-.0021999	.000845
gdp	5.81e-08	1.02e-08	5.70	0.000	3.81e-08	7.81e-08
interest_rate	-.0273597	.0118795	-2.30	0.021	-.0506432	-.0040762
debt	-.0200727	.0043489	-4.62	0.000	-.0285964	-.0115489
deficit	3.46e-08	5.51e-08	0.63	0.530	-7.33e-08	1.43e-07
party_type						
National	-.2106607	.5311931	-0.40	0.692	-1.25178	.8304586
Provincial	4.325446	4.760852	0.91	0.364	-5.005652	13.65654
win_margin	-.0058115	.004001	-1.45	0.146	-.0136534	.0020303
abstentionism	.0125321	.008773	1.43	0.153	-.0046627	.029727
pop_share014	.0522637	.0143586	3.64	0.000	.0241213	.0804062
pop_share65plus	.0227891	.0477929	0.48	0.633	-.0708833	.1164616
_cons	-.0096687	1.102845	-0.01	0.993	-2.171206	2.151869

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L2.1_rpc_ext_time L2.L2.1_rpc_ext_time L3.L2.1_rpc_ext_time
  L4.L2.1_rpc_ext_time L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex
  L4.2.sex L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp

```

```

L2.gdp L3.gdp L4.gdp L2.interest_rate L2.debt L3.debt L4.debt L1.deficit
L2.deficit L3.deficit L4.deficit L1.2bn.party_type L2.2bn.party_type
L3.2bn.party_type L4.2bn.party_type L1.3.party_type L2.3.party_type
L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin L3.win_margin
L4.win_margin L1.abstentionism L2.abstentionism L3.abstentionism
L4.abstentionism L1.pop_share014 L2.pop_share014 L3.pop_share014
L4.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus
L4.pop_share65plus
2, model(level):
  D.L1_rpc_ext_time D.L2.1_rpc_ext_time D.elec_t D.Age D.2.sex D.k_12centers
  D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(48)    =    51.1290
                                                         Prob > chi2 =    0.3518

2-step moment functions, 3-step weighting matrix      chi2(48)    =    58.7181
                                                         Prob > chi2 =    0.1382

```

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = -5.1142 Prob > |z| = 0.0000
H0: no autocorrelation of order 2: z = 2.2389 Prob > |z| = 0.0252

Generalized method of moments estimation

```

Fitting full model:
Step 1          f(b) = .08241722
Step 2          f(b) = .30991841

```

```

Fitting reduced model 2:
Step 1          f(b) = 3.509e-22

```

```

Group variable: mun_id          Number of obs      =    1092
Time variable: year            Number of groups   =     81

Moment conditions:      linear =    25      Obs per group:   min =     5
                      nonlinear =    0      avg =   13.48148
                      total =    25      max =    14

```

(Std. err. adjusted for 81 clusters in mun_id)

l_rpc_ext_time	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_ext_time						
L1.	.7333791	.0900956	8.14	0.000	.5567949	.9099633
elec_t						
--.	-.1079743	.1128024	-0.96	0.338	-.3290629	.1131143
L1.	-.261106	.1318431	-1.98	0.048	-.5195137	-.0026984
Age	-.0039313	.0089933	-0.44	0.662	-.0215577	.0136952
sex						
Male	.0135874	.1203264	0.11	0.910	-.222248	.2494227
k_12centers	-.0008175	.0016495	-0.50	0.620	-.0040504	.0024155
gdp	1.93e-08	1.42e-08	1.36	0.174	-8.51e-09	4.71e-08
interest_rate	-.0786355	.0348368	-2.26	0.024	-.1469143	-.0103566
debt	-.020407	.0096109	-2.12	0.034	-.039244	-.0015701
deficit	2.81e-07	1.68e-07	1.67	0.095	-4.89e-08	6.11e-07
party_type						
National	-.8570996	.6028423	-1.42	0.155	-2.038649	.3244496
Provincial	8.066405	8.195617	0.98	0.325	-7.99671	24.12952
win_margin	.0003371	.0249626	0.01	0.989	-.0485887	.0492628
abstentionism	-.0034128	.0211449	-0.16	0.872	-.044856	.0380304
pop_share014	-.0056606	.044209	-0.13	0.898	-.0923087	.0809875

pop_share65plus	-.0069174	.1094232	-0.06	0.950	-.221383	.2075482
_cons	4.725084	1.99437	2.37	0.018	.8161895	8.633977

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L1_rpc_ext_time L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
  L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
  L1.abstentionism L1.pop_share014 L1.pop_share65plus
2, model(level):
  D.L1_rpc_ext_time D.elec_t D.L.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(10) = 25.1034
Prob > chi2 = 0.0052

2-step moment functions, 3-step weighting matrix chi2(10) = 31.5962
Prob > chi2 = 0.0005

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -4.6998 Prob > |z| = 0.0000
H0: no autocorrelation of order 2: z = 0.6552 Prob > |z| = 0.5124

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .20936565
Step 2 f(b) = .54836251

Fitting reduced model 2:

Step 1 f(b) = .35832589

Group variable: **mun_id** Number of obs = 1092
Time variable: **year** Number of groups = 81

Moment conditions: linear = 39 Obs per group: min = 5
 nonlinear = 0 avg = 13.48148
 total = 39 max = 14

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_ext_time	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_ext_time						
L1.	.6825823	.0860902	7.93	0.000	.5138486	.8513161
elec_t						
--.	-.109095	.0770274	-1.42	0.157	-.2600659	.0418759
L1.	-.2470861	.088907	-2.78	0.005	-.4213405	-.0728316
Age	-.0109176	.0084173	-1.30	0.195	-.0274152	.00558
sex						
Male	.0942491	.1399617	0.67	0.501	-.1800709	.368569
k_12centers	-.0013142	.0016262	-0.81	0.419	-.0045015	.0018731
gdp	3.38e-08	1.20e-08	2.81	0.005	1.02e-08	5.74e-08
interest_rate	-.0821934	.0245418	-3.35	0.001	-.1302945	-.0340923
debt	-.0165005	.005503	-3.00	0.003	-.0272863	-.0057148
deficit	1.57e-07	8.45e-08	1.86	0.062	-8.13e-09	3.23e-07
party_type						
National	-.3077292	.5790191	-0.53	0.595	-1.442586	.8271273
Provincial	6.246195	8.896262	0.70	0.483	-11.19016	23.68255
win_margin	-.0091631	.0096943	-0.95	0.345	-.0281637	.0098374
abstentionism	.0027749	.0165343	0.17	0.867	-.0296317	.0351815
pop_share014	.0165791	.0302268	0.55	0.583	-.0426643	.0758225

pop_share65plus	-.0220627	.0854783	-0.26	0.796	-.1895971	.1454716
_cons	3.357978	1.796735	1.87	0.062	-.1635583	6.879513

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L1_rpc_ext_time L2.L1_rpc_ext_time L1.Age L2.Age L1.2.sex L2.2.sex
  L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
  L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
  L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
  L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
  L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
2, model(level):
  D.L1_rpc_ext_time D.elec_t D.L.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(24) = 44.4174
 Prob > chi2 = 0.0068

2-step moment functions, 3-step weighting matrix chi2(24) = 50.5445
 Prob > chi2 = 0.0012

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -4.3347 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = 0.8207 Prob > |z| = 0.4118

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .24428158

Step 2 f(b) = .6256152

Fitting reduced model 2:

Step 1 f(b) = .45851708

Group variable: **mun_id**

Number of obs = 1092

Time variable: **year**

Number of groups = 81

Moment conditions: linear = 53 Obs per group: min = 5
 nonlinear = 0 avg = 13.48148
 total = 53 max = 14

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_ext_time	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_ext_time						
L1.	.6385243	.0663406	9.62	0.000	.5084991	.7685495
elec_t						
--.	-.1012787	.0634623	-1.60	0.111	-.2256625	.0231051
L1.	-.2054714	.0747945	-2.75	0.006	-.3520659	-.0588769
Age	-.0094103	.0067688	-1.39	0.164	-.0226769	.0038562
sex						
Male	.0951996	.1111677	0.86	0.392	-.1226851	.3130843
k_12centers	-.0006144	.0013742	-0.45	0.655	-.0033078	.002079
gdp	3.19e-08	1.01e-08	3.17	0.002	1.22e-08	5.16e-08
interest_rate	-.061131	.021847	-2.80	0.005	-.1039504	-.0183116
debt	-.0179118	.0049474	-3.62	0.000	-.0276085	-.0082151
deficit	1.58e-07	8.16e-08	1.94	0.052	-1.59e-09	3.18e-07
party_type						
National	.183357	.7598048	0.24	0.809	-1.305833	1.672547
Provincial	6.117099	7.598898	0.80	0.421	-8.776467	21.01067

win_margin	-.0043115	.0072948	-0.59	0.554	-.0186091	.0099861
abstentionism	.0078728	.0128407	0.61	0.540	-.0172945	.0330401
pop_share014	.0219279	.0205432	1.07	0.286	-.018336	.0621919
pop_share65plus	.0821382	.0670855	1.22	0.221	-.049347	.2136233
_cons	1.730948	1.417118	1.22	0.222	-1.046552	4.508449

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L1_rpc_ext_time L2.L1_rpc_ext_time L3.L1_rpc_ext_time L1.Age L2.Age
  L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
  L3.k_12centers L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate
  L3.interest_rate L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit
  L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L1.3.party_type
  L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
  L1.abstentionism L2.abstentionism L3.abstentionism L1.pop_share014
  L2.pop_share014 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus
  L3.pop_share65plus
2, model(level):
  D.L1_rpc_ext_time D.elec_t D.L.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix	chi2(38)	=	50.6748
	Prob > chi2	=	0.0819

2-step moment functions, 3-step weighting matrix	chi2(38)	=	55.2555
	Prob > chi2	=	0.0348

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -4.5630 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = 0.9098 Prob > |z| = 0.3629

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .29678043

Step 2 f(b) = .68557765

Fitting reduced model 2:

Step 1 f(b) = .5753764

Group variable: mun_id	Number of obs	=	1092
Time variable: year	Number of groups	=	81

Moment conditions:	linear =	64	Obs per group:	min =	5
	nonlinear =	0		avg =	13.48148
	total =	64		max =	14

(Std. err. adjusted for 81 clusters in mun_id)

l_rpc_ext_time	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_ext_time						
L1.	.620945	.0617886	10.05	0.000	.4998416	.7420483
elec_t						
--.	-.0876385	.0456655	-1.92	0.055	-.1771413	.0018643
L1.	-.2083843	.0653456	-3.19	0.001	-.3364594	-.0803092
Age	-.0039668	.0062371	-0.64	0.525	-.0161913	.0082576
sex						
Male	.0748221	.0956827	0.78	0.434	-.1127126	.2623568
k_12centers	-.0004305	.0011258	-0.38	0.702	-.0026371	.0017761
gdp	2.98e-08	9.98e-09	2.98	0.003	1.02e-08	4.93e-08
interest_rate	-.0652329	.0185084	-3.52	0.000	-.1015087	-.0289572
debt	-.0157809	.0043409	-3.64	0.000	-.0242889	-.007273

deficit	1.47e-07	6.86e-08	2.14	0.033	1.22e-08	2.81e-07
party_type						
National	-.1308676	.5042048	-0.26	0.795	-1.119091	.8573556
Provincial	4.089405	5.164076	0.79	0.428	-6.031998	14.21081
win_margin	-.0024522	.0067538	-0.36	0.717	-.0156894	.010785
abstentionism	.0047228	.0120705	0.39	0.696	-.018935	.0283806
pop_share014	.0264925	.0184039	1.44	0.150	-.0095785	.0625635
pop_share65plus	.0587722	.0524996	1.12	0.263	-.0441252	.1616695
_cons	2.061091	1.344122	1.53	0.125	-.5733403	4.695523

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L1_rpc_ext_time L2.L1_rpc_ext_time L3.L1_rpc_ext_time
  L4.L1_rpc_ext_time L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex
  L4.2.sex L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp
  L2.gdp L3.gdp L4.gdp L2.interest_rate L1.debt L2.debt L3.debt L4.debt
  L1.deficit L2.deficit L3.deficit L4.deficit L1.2bn.party_type
  L2.2bn.party_type L3.2bn.party_type L4.2bn.party_type L1.3.party_type
  L2.3.party_type L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin
  L3.win_margin L4.win_margin L1.abstentionism L2.abstentionism
  L3.abstentionism L4.abstentionism L1.pop_share014 L2.pop_share014
  L3.pop_share014 L4.pop_share014 L1.pop_share65plus L2.pop_share65plus
  L3.pop_share65plus L4.pop_share65plus
2, model(level):
  D.L1_rpc_ext_time D.elec_t D.L.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(49) = 55.5318
 Prob > chi2 = 0.2422

2-step moment functions, 3-step weighting matrix chi2(49) = 64.9814
 Prob > chi2 = 0.0628

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -4.7340 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = 0.9261 Prob > |z| = 0.3544

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .05193233

Step 2 f(b) = .12680975

Group variable: **mun_id**

Number of obs = 1007

Time variable: **year**

Number of groups = 81

Moment conditions: linear = 26 Obs per group: min = 4
 nonlinear = 0 avg = 12.4321
 total = 26 max = 13

(Std. err. adjusted for 81 clusters in **mun_id**)

	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_ext_time						
l_rpc_ext_time						
L1.	.7407718	.0682486	10.85	0.000	.607007	.8745365
L2.	.0106421	.0485944	0.22	0.827	-.0846011	.1058853
elec_t						
--.	-.0668856	.0686011	-0.97	0.330	-.2013412	.06757
L1.	-.1315168	.0894018	-1.47	0.141	-.3067412	.0437075
Age	.0049755	.0075381	0.66	0.509	-.009799	.0197499

sex						
Male	-.1345904	.1220516	-1.10	0.270	-.3738071	.1046263
k_12centers	.0001623	.001078	0.15	0.880	-.0019506	.0022751
gdp	5.91e-08	1.36e-08	4.34	0.000	3.25e-08	8.58e-08
interest_rate	-.0559439	.0233937	-2.39	0.017	-.1017947	-.0100931
debt	-.0309703	.0059503	-5.20	0.000	-.0426327	-.019308
deficit	1.31e-07	9.61e-08	1.37	0.172	-5.70e-08	3.20e-07
party_type						
National	-.1194636	.5401978	-0.22	0.825	-1.178232	.9393047
Provincial	.9847811	3.652418	0.27	0.787	-6.173826	8.143388
win_margin	.0126872	.009098	1.39	0.163	-.0051446	.030519
abstentionism	.0057634	.0143379	0.40	0.688	-.0223384	.0338651
pop_share014	.0295707	.015444	1.91	0.056	-.0006991	.0598405
pop_share65plus	.0411657	.0561858	0.73	0.464	-.0689564	.1512879
_cons	.7776357	1.295064	0.60	0.548	-1.760643	3.315914

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L2.1_rpc_ext_time L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
  L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
  L1.abstentionism L1.pop_share014 L1.pop_share65plus
2, model(level):
  D.L.1_rpc_ext_time D.L2.1_rpc_ext_time D.elec_t D.L.elec_t D.Age D.2.sex
  D.k_12centers D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(10) = 10.2716
 Prob > chi2 = 0.4170

2-step moment functions, 3-step weighting matrix chi2(10) = 13.6822
 Prob > chi2 = 0.1880

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -5.2309 Prob > |z| = 0.0000
 H0: no autocorrelation of order 2: z = 1.6510 Prob > |z| = 0.0987

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .11161916
 Step 2 f(b) = .34222071

Fitting reduced model 2:

Step 1 f(b) = .18522717

Group variable: **mun_id** Number of obs = 1007
 Time variable: **year** Number of groups = 81

Moment conditions: linear = 40 Obs per group: min = 4
 nonlinear = 0 avg = 12.4321
 total = 40 max = 13

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_ext_time	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_ext_time						
L1.	.6640421	.0672804	9.87	0.000	.532175	.7959092
L2.	-.0212588	.0415266	-0.51	0.609	-.1026494	.0601319
elec_t						
--.	-.1014138	.0687273	-1.48	0.140	-.2361168	.0332892
L1.	-.1776961	.0801559	-2.22	0.027	-.3347987	-.0205934
Age	-.0013688	.0063387	-0.22	0.829	-.0137925	.0110549

sex						
Male	.0147245	.1242933	0.12	0.906	-.228886	.2583349
k_12centers	-.00025	.0010561	-0.24	0.813	-.0023199	.0018199
gdp	4.73e-08	1.03e-08	4.61	0.000	2.72e-08	6.75e-08
interest_rate	-.0540871	.020236	-2.67	0.008	-.0937489	-.0144252
debt	-.0227596	.0052808	-4.31	0.000	-.0331099	-.0124094
deficit	1.34e-07	8.33e-08	1.61	0.107	-2.88e-08	2.98e-07
party_type						
National	-.1293438	.5867905	-0.22	0.826	-1.279432	1.020744
Provincial	2.593328	5.78836	0.45	0.654	-8.75165	13.93831
win_margin	-.0033352	.0058738	-0.57	0.570	-.0148477	.0081772
abstentionism	.0007169	.0099194	0.07	0.942	-.0187247	.0201585
pop_share014	.0391961	.0226879	1.73	0.084	-.0052714	.0836637
pop_share65plus	.0592071	.0679252	0.87	0.383	-.0739238	.192338
_cons	1.595393	1.254263	1.27	0.203	-.8629164	4.053703

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.1_rpc_ext_time L2.L2.1_rpc_ext_time L1.Age L2.Age L1.2.sex L2.2.sex
 L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
 L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
 L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
 L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
 L2.pop_share014 L1.pop_share65plus L2.pop_share65plus

2, model(level):

D.L.1_rpc_ext_time D.L2.1_rpc_ext_time D.elec_t D.L.elec_t D.Age D.2.sex
 D.k_12centers D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(24) = 27.7199
 Prob > chi2 = 0.2720

2-step moment functions, 3-step weighting matrix chi2(24) = 32.3164
 Prob > chi2 = 0.1193

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -4.6754 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = 2.2501 Prob > |z| = 0.0244

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .15407693

Step 2 f(b) = .54321097

Fitting reduced model 2:

Step 1 f(b) = .4205007

Group variable: **mun_id**

Number of obs = 1007

Time variable: **year**

Number of groups = 81

Moment conditions: linear = 54
 nonlinear = 0
 total = 54

Obs per group: min = 4
 avg = 12.4321
 max = 13

(Std. err. adjusted for **81** clusters in **mun id**)

l_rpc_ext_time	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_ext_time						
L1.	.6912718	.0630275	10.97	0.000	.5677402	.8148033
L2.	-.0325069	.0420726	-0.77	0.440	-.1149676	.0499539
elec_t						
--.	-.1232041	.0551297	-2.23	0.025	-.2312563	-.0151519
L1.	-.1808844	.071901	-2.52	0.012	-.3218078	-.0399611
Age	.003358	.0068057	0.49	0.622	-.009981	.016697
sex						
Male	.0053963	.1322221	0.04	0.967	-.2537542	.2645467
k_12centers	.0001337	.0010539	0.13	0.899	-.0019319	.0021993
gdp	5.21e-08	1.03e-08	5.04	0.000	3.18e-08	7.23e-08
interest_rate	-.0618265	.0207873	-2.97	0.003	-.1025689	-.0210841
debt	-.0274348	.0047849	-5.73	0.000	-.036813	-.0180567
deficit	2.02e-07	7.67e-08	2.64	0.008	5.20e-08	3.53e-07
party_type						
National	-.2356364	.6168764	-0.38	0.702	-1.444692	.9734191
Provincial	5.166162	5.736089	0.90	0.368	-6.076366	16.40869
win_margin	-.0105834	.0054682	-1.94	0.053	-.0213009	.0001342
abstentionism	.0167366	.0096466	1.73	0.083	-.0021704	.0356437
pop_share014	.0310046	.0186828	1.66	0.097	-.005613	.0676222
pop_share65plus	.1088521	.0570143	1.91	0.056	-.0028938	.220598
_cons	.4348207	1.30279	0.33	0.739	-2.118601	2.988243

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
```

L1.L2.1_rpc_ext_time L2.L2.1_rpc_ext_time L3.L2.1_rpc_ext_time L1.Age
L2.Age L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
L3.k_12centers L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate
L3.interest_rate L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit
L1.2bn_party_type L2.2bn_party_type L3.2bn_party_type L1.3.party_type
L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
L1.abstentionism L2.abstentionism L3.abstentionism L1.pop_share014
L2.pop_share014 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus
L3.pop_share65plus

```
2, model(level):
```

D.L1_rpc_ext_time D.L2.1_rpc_ext_time D.elec_t D.L.elec_t D.Age D.2.sex
D.k_12centers D.gdp D.interest_rate D.debt D.deficit

```
3, model(level):
```

cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

[illegible][illegible]

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: $z = -4.9198$ Prob $> |z| = 0.0000$

H0: no autocorrelation of order 1:	z =	1.9193	Prob > z =	0.0559
H0: no autocorrelation of order 2:	z =	2.2273	Prob > z =	0.0259

Generalized method of moments estimation

Fitting full model:

Step 1 $f(b) = .19935484$

```
Step 2      f(b) = .6093579
```

Fitting reduced model 2:

Step 1 $f(b) = .49321932$

Group variable: **mun_id** Number of obs = **1007**
 Time variable: **year** Number of groups = **81**

Moment conditions: linear = **64** Obs per group: min = **4**
 nonlinear = **0** avg = **12.4321**
 total = **64** max = **13**

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_ext_time	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_ext_time						
L1.	.6789676	.058543	11.60	0.000	.5642255	.7937098
L2.	-.0419222	.0419635	-1.00	0.318	-.1241691	.0403246
elec_t						
--.	-.1211821	.043314	-2.80	0.005	-.206076	-.0362883
L1.	-.1904471	.0627935	-3.03	0.002	-.3135201	-.0673741
Age	.0078094	.007117	1.10	0.273	-.0061397	.0217585
sex						
Male	-.0172857	.1188023	-0.15	0.884	-.250134	.2155626
k_12centers	.0004769	.0009823	0.49	0.627	-.0014484	.0024022
gdp	4.91e-08	9.90e-09	4.96	0.000	2.97e-08	6.85e-08
interest_rate	-.0640733	.0181125	-3.54	0.000	-.099573	-.0285735
debt	-.0265652	.0043536	-6.10	0.000	-.0350981	-.0180323
deficit	1.80e-07	6.49e-08	2.77	0.006	5.23e-08	3.07e-07
party_type						
National	-.2447918	.581501	-0.42	0.674	-1.384513	.8949291
Provincial	4.037821	4.635091	0.87	0.384	-5.046791	13.12243
win_margin	-.0055785	.0042163	-1.32	0.186	-.0138424	.0026853
abstentionism	.0125646	.0091481	1.37	0.170	-.0053654	.0304945
pop_share014	.0295813	.016373	1.81	0.071	-.0025093	.0616719
pop_share65plus	.0990601	.0503105	1.97	0.049	.0004534	.1976669
_cons	.7081498	1.248113	0.57	0.570	-1.738108	3.154407

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L2.l_rpc_ext_time L2.L2.l_rpc_ext_time L3.L2.l_rpc_ext_time
  L4.L2.l_rpc_ext_time L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex
  L4.2.sex L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp
  L2.gdp L3.gdp L4.gdp L2.interest_rate L2.debt L3.debt L4.debt L1.deficit
  L2.deficit L3.deficit L4.deficit L1.2bn.party_type L2.2bn.party_type
  L3.2bn.party_type L4.2bn.party_type L1.3.party_type L2.3.party_type
  L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin L3.win_margin
  L4.win_margin L1.abstentionism L2.abstentionism L3.abstentionism
  L4.abstentionism L1.pop_share014 L2.pop_share014 L3.pop_share014
  L4.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus
  L4.pop_share65plus
2, model(level):
  D.L.l_rpc_ext_time D.L2.l_rpc_ext_time D.elec_t D.L.elec_t D.Age D.2.sex
  D.k_12centers D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(48) = **49.3580**
 Prob > chi2 = **0.4187**

2-step moment functions, 3-step weighting matrix chi2(48) = **64.9374**
 Prob > chi2 = **0.0520**

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-5.1153** Prob > |z| = **0.0000**
 H0: no autocorrelation of order 2: z = **2.3370** Prob > |z| = **0.0194**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .01392253

Step 2 f(b) = .23733995

Fitting reduced model 2:

Step 1 f(b) = 4.418e-20

Group variable: **mun_id** Number of obs = 1123Time variable: **year** Number of groups = 81

Moment conditions:	linear =	24	Obs per group:	min =	10
	nonlinear =	0		avg =	13.8642
	total =	24		max =	14

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_sub_all	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_sub_all						
L1.	.5675079	.1836852	3.09	0.002	.2074916	.9275242
elec_t	-.0728635	.0172169	-4.23	0.000	-.1066081	-.0391189
Age	.0005122	.003064	0.17	0.867	-.0054931	.0065175
sex						
Male	-.0405563	.0757169	-0.54	0.592	-.1889588	.1078461
k_12centers	-.0006254	.0007039	-0.89	0.374	-.002005	.0007543
gdp	9.95e-09	5.02e-09	1.98	0.048	1.03e-10	1.98e-08
interest_rate	-.0283348	.0106904	-2.65	0.008	-.0492876	-.0073821
debt	-.006312	.0020559	-3.07	0.002	-.0103415	-.0022825
deficit	8.16e-08	2.87e-08	2.85	0.004	2.54e-08	1.38e-07
party_type						
National	.2267258	.1341616	1.69	0.091	-.036226	.4896776
Provincial	-1.784691	2.136526	-0.84	0.404	-5.972205	2.402823
win_margin	.0028383	.0029975	0.95	0.344	-.0030367	.0087132
abstentionism	.0012079	.0036222	0.33	0.739	-.0058914	.0083073
pop_share014	.0145304	.0119507	1.22	0.224	-.0088926	.0379534
pop_share65plus	.0754343	.032353	2.33	0.020	.0120235	.1388451
_cons	2.113455	1.133296	1.86	0.062	-.1077633	4.334674

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L1_rpc_sub_all L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
 L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
 L1.abstentionism L1.pop_share014 L1.pop_share65plus

2, model(level):

D.L1_rpc_sub_all D.elec_t D.Age D.2.sex D.k_12centers D.gdp
 D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix	chi2(10)	=	19.2245
	Prob > chi2	=	0.0375

2-step moment functions, 3-step weighting matrix	chi2(10)	=	23.5065
	Prob > chi2	=	0.0090

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -4.2520 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = 0.9455 Prob > |z| = 0.3444

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .01999113

Step 2 f(b) = .56920141

Fitting reduced model 2:

Step 1 f(b) = .25569105

Group variable: **mun_id**

Number of obs = 1123

Time variable: **year**

Number of groups = 81

Moment conditions: linear = 38

Obs per group: min = 10

nonlinear = 0

avg = 13.8642

total = 38

max = 14

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_sub_all	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_sub_all						
L1.	.5176626	.118556	4.37	0.000	.285297	.7500282
elec_t	-.0432126	.0181308	-2.38	0.017	-.0787484	-.0076768
Age	.001576	.0030059	0.52	0.600	-.0043154	.0074675
sex						
Male	-.0580038	.0767136	-0.76	0.450	-.2083597	.0923521
k_12centers	-.0007561	.0007589	-1.00	0.319	-.0022435	.0007313
gdp	8.75e-09	5.06e-09	1.73	0.084	-1.17e-09	1.87e-08
interest_rate	-.0209971	.0085143	-2.47	0.014	-.0376848	-.0043095
debt	-.0031991	.0016675	-1.92	0.055	-.0064674	.0000691
deficit	6.80e-08	2.82e-08	2.41	0.016	1.28e-08	1.23e-07
party_type						
National	.2353201	.1097778	2.14	0.032	.0201597	.4504806
Provincial	-.65697	1.764786	-0.37	0.710	-4.115886	2.801946
win_margin	-.0000379	.0025747	-0.01	0.988	-.0050843	.0050085
abstentionism	.0040756	.0044147	0.92	0.356	-.0045771	.0127284
pop_share014	.010777	.010009	1.08	0.282	-.0088404	.0303943
pop_share65plus	.0615081	.0262231	2.35	0.019	.0101118	.1129044
_cons	2.225	.9249022	2.41	0.016	.4122247	4.037775

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L1_rpc_sub_all L2.L1_rpc_sub_all L1.Age L2.Age L1.2.sex L2.2.sex
 L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
 L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
 L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
 L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
 L2.pop_share014 L1.pop_share65plus L2.pop_share65plus

2, model(level):

D.L1_rpc_sub_all D.elec_t D.Age D.2.sex D.k_12centers D.gdp
 D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(24) = 46.1053
 Prob > chi2 = 0.0043

2-step moment functions, 3-step weighting matrix chi2(24) = 49.4584
 Prob > chi2 = 0.0017

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -4.1581 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = 1.1840 Prob > |z| = 0.2364

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .02837849

Step 2 f(b) = .75355525

Fitting reduced model 2:

Step 1 f(b) = .67417543

Group variable: **mun_id**

Number of obs = 1123

Time variable: **year**

Number of groups = 81

Moment conditions:	linear =	51	Obs per group:	min =	10
	nonlinear =	0		avg =	13.8642
	total =	51		max =	14

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_sub_all	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_sub_all						
L1.	.5737767	.1076587	5.33	0.000	.3627696	.7847839
elec_t	-.0304838	.0177194	-1.72	0.085	-.0652132	.0042457
Age	.001783	.0031381	0.57	0.570	-.0043675	.0079334
sex						
Male	-.0336522	.0765582	-0.44	0.660	-.1837036	.1163992
k_12centers	-.0004008	.0006248	-0.64	0.521	-.0016254	.0008238
gdp	4.15e-09	4.28e-09	0.97	0.333	-4.24e-09	1.25e-08
interest_rate	-.0180094	.0078263	-2.30	0.021	-.0333487	-.0026701
debt	-.0031765	.0015918	-2.00	0.046	-.0062964	-.0000566
deficit	7.31e-08	2.57e-08	2.84	0.004	2.27e-08	1.23e-07
party_type						
National	.2032337	.1232636	1.65	0.099	-.0383585	.4448259
Provincial	-1.107208	1.588574	-0.70	0.486	-4.220756	2.006341
win_margin	-.0004384	.0034407	-0.13	0.899	-.0071821	.0063053
abstentionism	.0011307	.0052132	0.22	0.828	-.0090869	.0113483
pop_share014	.0035296	.0099416	0.36	0.723	-.0159554	.0230147
pop_share65plus	.064974	.028652	2.27	0.023	.008817	.1211309
_cons	2.261384	.8942341	2.53	0.011	.5087178	4.014051

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L1_rpc_sub_all L2.L1_rpc_sub_all L3.L1_rpc_sub_all L1.Age L2.Age
 L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
 L3.k_12centers L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate
 L3.interest_rate L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit
 L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L1.3.party_type
 L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
 L1.abstentionism L2.abstentionism L3.abstentionism L1.pop_share014
 L2.pop_share014 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus
 L3.pop_share65plus

2, model(level):

D.L1_rpc_sub_all D.Age D.2.sex D.k_12centers D.gdp D.interest_rate D.debt
 D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix	chi2(37)	=	61.0380
	Prob > chi2	=	0.0077

2-step moment functions, 3-step weighting matrix	chi2(37)	=	69.8826
	Prob > chi2	=	0.0009

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-4.4155** Prob > |z| = **0.0000**
H0: no autocorrelation of order 2: z = **1.3832** Prob > |z| = **0.1666**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.03032865**
Step 2 f(b) = **.80641324**

Fitting reduced model 2:

Step 1 f(b) = **.73003034**

Group variable: **mun_id** Number of obs = **1123**
Time variable: **year** Number of groups = **81**

Moment conditions: linear = **61** Obs per group: min = **10**
nonlinear = **0** avg = **13.8642**
total = **61** max = **14**

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_sub_all	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_sub_all						
L1.	.552462	.0984156	5.61	0.000	.3595709	.7453531
elec_t	-.0304646	.0174783	-1.74	0.081	-.0647214	.0037921
Age	.0020736	.0025861	0.80	0.423	-.002995	.0071423
sex						
Male	-.0211603	.0714634	-0.30	0.767	-.1612259	.1189054
k_12centers	-.0002867	.0005289	-0.54	0.588	-.0013232	.0007499
gdp	2.74e-09	3.98e-09	0.69	0.491	-5.07e-09	1.05e-08
interest_rate	-.0162033	.0068241	-2.37	0.018	-.0295784	-.0028283
debt	-.003302	.0014167	-2.33	0.020	-.0060787	-.0005254
deficit	6.38e-08	2.39e-08	2.67	0.008	1.69e-08	1.11e-07
party_type						
National	.1336112	.1304808	1.02	0.306	-.1221264	.3893489
Provincial	-.6814008	1.296105	-0.53	0.599	-3.221721	1.858919
win_margin	.0001389	.0026943	0.05	0.959	-.0051419	.0054197
abstentionism	.0009535	.0045097	0.21	0.833	-.0078853	.0097924
pop_share014	.0020261	.0090581	0.22	0.823	-.0157274	.0197796
pop_share65plus	.0754024	.0254658	2.96	0.003	.0254903	.1253145
_cons	2.409162	.7754798	3.11	0.002	.8892494	3.929074

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L.1_rpc sub all L2.L.1_rpc sub all L3.L.1_rpc sub all L4.L.1_rpc sub all
L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex L4.2.sex
L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp L2.gdp
L3.gdp L4.gdp L4.interest_rate L2.debt L3.debt L4.debt L1.deficit
L2.deficit L3.deficit L4.deficit L1.2bn.party_type L2.2bn.party_type
L3.2bn.party_type L4.2bn.party_type L1.3.party_type L2.3.party_type
L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin L3.win_margin
L4.win_margin L1.abstentionism L2.abstentionism L3.abstentionism
L4.abstentionism L1.pop_share014 L2.pop_share014 L3.pop_share014
L4.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus
L4.pop_share65plus

2, model(level):

D.L.1_rpc_sub_all D.Age D.2.sex D.k_12centers D.gdp D.interest_rate D.debt
D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix $\chi^2(47) = 65.3195$
 Prob > $\chi^2 = 0.0396$

2-step moment functions, 3-step weighting matrix $\chi^2(47) = 69.2715$
 Prob > $\chi^2 = 0.0189$

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: $z = -4.5340$ Prob > $|z| = 0.0000$
 H0: no autocorrelation of order 2: $z = 1.3503$ Prob > $|z| = 0.1769$

Generalized method of moments estimation

Fitting full model:

Step 1 $f(b) = .00244883$

Step 2 $f(b) = .09826476$

Fitting reduced model 2:

Step 1 $f(b) = 2.537e-20$

Group variable: **mun_id** Number of obs = 1040
 Time variable: **year** Number of groups = 81

Moment conditions: linear = 25 Obs per group: min = 8
 nonlinear = 0 avg = 12.83951
 total = 25 max = 13

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_sub_all	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_sub_all						
L1.	.6251664	.0976059	6.41	0.000	.4338624	.8164703
L2.	.158908	.0618297	2.57	0.010	.037724	.280092
elec_t	-.0974019	.0170663	-5.71	0.000	-.1308511	-.0639526
Age	.001256	.0033293	0.38	0.706	-.0052693	.0077813
sex						
Male	-.0205018	.0601892	-0.34	0.733	-.1384704	.0974667
k_12centers	-.0001553	.0006425	-0.24	0.809	-.0014146	.001104
gdp	2.34e-08	7.42e-09	3.15	0.002	8.86e-09	3.79e-08
interest_rate	-.0290276	.0090723	-3.20	0.001	-.046809	-.0112463
debt	-.0122588	.0027266	-4.50	0.000	-.0176029	-.0069147
deficit	1.23e-07	2.59e-08	4.75	0.000	7.21e-08	1.73e-07
party_type						
National	.4033914	.2638439	1.53	0.126	-.1137331	.9205158
Provincial	-3.655167	4.137607	-0.88	0.377	-11.76473	4.454395
win_margin	.0002159	.0030801	0.07	0.944	-.0058209	.0062527
abstentionism	.0013818	.0039437	0.35	0.726	-.0063478	.0091114
pop_share014	.0121694	.0140443	0.87	0.386	-.0153568	.0396957
pop_share65plus	.0590506	.0236749	2.49	0.013	.0126487	.1054524
_cons	.6325242	1.102073	0.57	0.566	-1.527499	2.792548

Instruments corresponding to the linear moment conditions:

1, model(diff):

 L1.L2.l_rpc_sub_all L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
 L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
 L1.abstentionism L1.pop_share014 L1.pop_share65plus

2, model(level):

 D.L1_rpc_sub_all D.L2.l_rpc_sub_all D.elec_t D.Age D.2.sex D.k_12centers
 D.gdp D.interest_rate D.debt D.deficit

3, model(level):

 _cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix $\chi^2(10) = 7.9594$
 Prob > $\chi^2 = 0.6328$

2-step moment functions, 3-step weighting matrix $\chi^2(10) = 18.1308$
 Prob > $\chi^2 = 0.0528$

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: $z = -4.7856$ Prob > $|z| = 0.0000$
 H0: no autocorrelation of order 2: $z = -2.1989$ Prob > $|z| = 0.0279$

Generalized method of moments estimation

Fitting full model:

Step 1 $f(b) = .01275519$
 Step 2 $f(b) = .51308006$

Fitting reduced model 2:

Step 1 $f(b) = .1964966$

Group variable: **mun_id** Number of obs = 1040
 Time variable: **year** Number of groups = 81

Moment conditions: linear = 39 Obs per group: min = 8
 nonlinear = 0 avg = 12.83951
 total = 39 max = 13

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_sub_all	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_sub_all						
L1.	.5666417	.0825262	6.87	0.000	.4048933	.7283902
L2.	.0719163	.0788098	0.91	0.361	-.0825479	.2263806
elec_t	-.076411	.0214909	-3.56	0.000	-.1185324	-.0342896
Age	.0060394	.0041892	1.44	0.149	-.0021713	.0142501
sex						
Male	-.055775	.062146	-0.90	0.369	-.1775789	.0660289
k_12centers	.0006136	.0007788	0.79	0.431	-.0009128	.0021401
gdp	1.66e-08	5.20e-09	3.20	0.001	6.44e-09	2.68e-08
interest_rate	-.0182553	.0076395	-2.39	0.017	-.0332284	-.0032821
debt	-.0091159	.0023442	-3.89	0.000	-.0137104	-.0045214
deficit	1.21e-07	3.49e-08	3.47	0.001	5.26e-08	1.89e-07
party_type						
National	.2721836	.1748555	1.56	0.120	-.0705268	.6148941
Provincial	-4.303366	3.397544	-1.27	0.205	-10.96243	2.355699
win_margin	-.0020771	.0038509	-0.54	0.590	-.0096248	.0054706
abstentionism	.0058152	.0053751	1.08	0.279	-.0047197	.0163501
pop_share014	-.0014642	.0120915	-0.12	0.904	-.025163	.0222347
pop_share65plus	.0702124	.0345669	2.03	0.042	.0024624	.1379623
_cons	1.338579	.9236896	1.45	0.147	-.4718197	3.148977

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.l_rpc_sub_all L2.L2.l_rpc_sub_all L1.Age L2.Age L1.2.sex L2.2.sex
 L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
 L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
 L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
 L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
 L2.pop_share014 L1.pop_share65plus L2.pop_share65plus

2, model(level):

D.L.l_rpc_sub_all D.L2.l_rpc_sub_all D.elec_t D.Age D.2.sex D.k_12centers
 D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(24) = **41.5595**
Prob > chi2 = **0.0144**

2-step moment functions, 3-step weighting matrix chi2(24) = **51.5010**
Prob > chi2 = **0.0009**

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = **-4.9677** Prob > |z| = **0.0000**
H0: no autocorrelation of order 2: z = **-0.3991** Prob > |z| = **0.6898**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.01860092**
Step 2 f(b) = **.64104781**

Fitting reduced model 2:

Step 1 f(b) = **.39318815**

Group variable: **mun_id** Number of obs = **1040**
Time variable: **year** Number of groups = **81**

Moment conditions: linear = **51** Obs per group: min = **8**
 nonlinear = **0** avg = **12.83951**
 total = **51** max = **13**

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_sub_all	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_sub_all						
L1.	.5271717	.0811942	6.49	0.000	.3680339	.6863095
L2.	.0933438	.0774981	1.20	0.228	-.0585498	.2452373
elec_t	-.0743554	.0200429	-3.71	0.000	-.1136387	-.0350722
Age	.0033606	.0034971	0.96	0.337	-.0034936	.0102147
sex						
Male	-.0620161	.0610819	-1.02	0.310	-.1817345	.0577023
k_12centers	.0007045	.0007994	0.88	0.378	-.0008624	.0022713
gdp	1.56e-08	5.00e-09	3.11	0.002	5.76e-09	2.53e-08
interest_rate	-.017065	.0079532	-2.15	0.032	-.0326529	-.001477
debt	-.009978	.0019807	-5.04	0.000	-.0138602	-.0060959
deficit	1.23e-07	3.23e-08	3.82	0.000	6.00e-08	1.86e-07
party_type						
National	.3527027	.2266604	1.56	0.120	-.0915435	.7969489
Provincial	-3.219222	3.062241	-1.05	0.293	-9.221104	2.782661
win_margin	-.0020861	.0043935	-0.47	0.635	-.0106973	.0065251
abstentionism	.00541	.005973	0.91	0.365	-.0062969	.017117
pop_share014	-.0026636	.0119425	-0.22	0.824	-.0260705	.0207433
pop_share65plus	.0891137	.0298224	2.99	0.003	.0306629	.1475645
_cons	1.496883	.8821747	1.70	0.090	-.2321472	3.225914

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.l_rpc_sub_all L2.L2.l_rpc_sub_all L3.L2.l_rpc_sub_all L1.Age L2.Age
L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
L3.k_12centers L1.gdp L2.gdp L3.gdp L3.interest_rate L1.debt L2.debt
L3.debt L1.deficit L2.deficit L3.deficit L1.2bn.party_type
L2.2bn.party_type L3.2bn.party_type L1.3.party_type L2.3.party_type
L3.3.party_type L1.win_margin L2.win_margin L3.win_margin L1.abstentionism
L2.abstentionism L3.abstentionism L1.pop_share014 L2.pop_share014
L3.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus

2, model(level):

D.L.l_rpc_sub_all D.L2.l_rpc_sub_all D.elec_t D.Age D.2.sex D.k_12centers
D.gdp D.interest_rate D.debt D.deficit

```
3, model(level):
    _cons
```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(36) = **51.9249**
Prob > chi2 = **0.0417**

2-step moment functions, 3-step weighting matrix chi2(36) = **57.8597**
Prob > chi2 = **0.0119**

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = **-4.4619** Prob > |z| = **0.0000**
H0: no autocorrelation of order 2: z = **-0.7514** Prob > |z| = **0.4524**

Generalized method of moments estimation

Fitting full model:
Step 1 f(b) = **.02110274**
Step 2 f(b) = **.68635443**

Fitting reduced model 2:
Step 1 f(b) = **.57448946**

Group variable: **mun_id** Number of obs = **1040**
Time variable: **year** Number of groups = **81**

Moment conditions: linear = **61** Obs per group: min = **8**
 nonlinear = **0** avg = **12.83951**
 total = **61** max = **13**

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_sub_all	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_sub_all						
L1.	.5278398	.0862871	6.12	0.000	.3587202	.6969594
L2.	.088743	.0533575	1.66	0.096	-.0158358	.1933217
elec_t	-.0706249	.0174946	-4.04	0.000	-.1049137	-.036336
Age	.0031418	.0024934	1.26	0.208	-.0017452	.0080287
sex						
Male	-.0374278	.051846	-0.72	0.470	-.1390442	.0641885
k_12centers	.0003308	.0005802	0.57	0.569	-.0008064	.0014681
gdp	1.41e-08	4.43e-09	3.17	0.002	5.38e-09	2.28e-08
interest_rate	-.0168474	.0074619	-2.26	0.024	-.0314724	-.0022224
debt	-.0099031	.001778	-5.57	0.000	-.013388	-.0064182
deficit	1.17e-07	2.70e-08	4.32	0.000	6.36e-08	1.70e-07
party_type						
National	.2746468	.1813208	1.51	0.130	-.0807354	.6300289
Provincial	-1.982798	2.126151	-0.93	0.351	-6.149977	2.184381
win_margin	-.0018829	.0030976	-0.61	0.543	-.0079541	.0041882
abstentionism	.0048309	.0047587	1.02	0.310	-.0044961	.0141579
pop_share014	-.0022268	.0092146	-0.24	0.809	-.0202872	.0158336
pop_share65plus	.0934993	.0275848	3.39	0.001	.0394341	.1475646
_cons	1.63199	.8574567	1.90	0.057	-.0485939	3.312575

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
    L1.L2.l_rpc_sub_all L2.L2.l_rpc_sub_all L3.L2.l_rpc_sub_all
    L4.L2.l_rpc_sub_all L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex
    L4.2.sex L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp
    L2.gdp L3.gdp L4.gdp L1.debt L3.debt L4.debt L1.deficit L2.deficit
    L3.deficit L4.deficit L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type
    L4.2bn.party_type L1.3.party_type L2.3.party_type L3.3.party_type
    L4.3.party_type L1.win_margin L2.win_margin L3.win_margin L4.win_margin
    L1.abstentionism L2.abstentionism L3.abstentionism L4.abstentionism
```

```

L1.pop_share014 L2.pop_share014 L3.pop_share014 L4.pop_share014
L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus L4.pop_share65plus
2, model(level):
  D.L1_rpc_sub_all D.L2.1_rpc_sub_all D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(46) = 55.5947
Prob > chi2 = 0.1571

2-step moment functions, 3-step weighting matrix chi2(46) = 64.4962
Prob > chi2 = 0.0371

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = -4.3681 Prob > |z| = 0.0000
H0: no autocorrelation of order 2: z = -0.7749 Prob > |z| = 0.4384

Generalized method of moments estimation

Fitting full model:
Step 1 f(b) = .0141953
Step 2 f(b) = .24898124

Fitting reduced model 2:
Step 1 f(b) = 1.363e-20

Group variable: **mun_id** Number of obs = 1123
Time variable: **year** Number of groups = 81

Moment conditions: linear = 25 Obs per group: min = 10
 nonlinear = 0 avg = 13.8642
 total = 25 max = 14

(Std. err. adjusted for 81 clusters in **mun_id**)

	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_sub_all						
l_rpc_sub_all	.5588481	.1861983	3.00	0.003	.1939061	.9237901
elec_t						
--	-.0112508	.0334904	-0.34	0.737	-.0768907	.0543892
L1.	.0712005	.0325441	2.19	0.029	.0074153	.1349857
Age	.0004666	.0031182	0.15	0.881	-.0056449	.0065782
sex						
Male	-.0387824	.0785558	-0.49	0.622	-.192749	.1151841
k_12centers	-.000622	.0006799	-0.91	0.360	-.0019546	.0007105
gdp	7.88e-09	4.78e-09	1.65	0.099	-1.48e-09	1.72e-08
interest_rate	-.0125274	.0088779	-1.41	0.158	-.0299278	.0048731
debt	-.0040738	.0022994	-1.77	0.076	-.0085805	.0004329
deficit	2.55e-08	4.93e-08	0.52	0.606	-7.12e-08	1.22e-07
party_type						
National	.2039619	.1416589	1.44	0.150	-.0736845	.4816082
Provincial	-1.831836	2.157867	-0.85	0.396	-6.061177	2.397505
win_margin	.0026171	.0030927	0.85	0.397	-.0034445	.0086786
abstentionism	.002988	.0034644	0.86	0.388	-.0038021	.0097781
pop_share014	.0195961	.0101317	1.93	0.053	-.0002616	.0394538
pop_share65plus	.0817007	.0306218	2.67	0.008	.021683	.1417183
_cons	1.637926	1.303753	1.26	0.209	-.917382	4.193235

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L1_rpc_sub_all L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate

```

```

L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
L1.abstentionism L1.pop_share014 L1.pop_share65plus
2, model(level):
  D.L1_rpc_sub_all D.elec_t D.L.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(10) = 20.1675
Prob > chi2 = 0.0277

2-step moment functions, 3-step weighting matrix chi2(10) = 25.9250
Prob > chi2 = 0.0038

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = -4.2636 Prob > |z| = 0.0000
H0: no autocorrelation of order 2: z = 1.2271 Prob > |z| = 0.2198

Generalized method of moments estimation

Fitting full model:
Step 1 f(b) = .01931529
Step 2 f(b) = .4690488

Fitting reduced model 2:
Step 1 f(b) = .22739211

Group variable: **mun_id** Number of obs = 1123
Time variable: **year** Number of groups = 81

Moment conditions: linear = 39 Obs per group: min = 10
 nonlinear = 0 avg = 13.8642
 total = 39 max = 14

(Std. err. adjusted for 81 clusters in **mun_id**)

	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_sub_all						
l_rpc_sub_all	.5433773	.1294086	4.20	0.000	.2897411	.7970136
elec_t						
--	.0121369	.025491	0.48	0.634	-.0378245	.0620984
L1.	.0798723	.0258516	3.09	0.002	.0292041	.1305405
Age	.0000791	.0027933	0.03	0.977	-.0053957	.0055539
sex						
Male	-.0576896	.0708258	-0.81	0.415	-.1965055	.0811264
k_12centers	-.0008785	.0006921	-1.27	0.204	-.002235	.0004779
gdp	7.14e-09	4.84e-09	1.48	0.140	-2.35e-09	1.66e-08
interest_rate	-.0101814	.0093053	-1.09	0.274	-.0284194	.0080565
debt	-.0015726	.0017305	-0.91	0.363	-.0049642	.001819
deficit	-2.87e-10	3.98e-08	-0.01	0.994	-7.83e-08	7.77e-08
party_type						
National	.1666218	.1020079	1.63	0.102	-.0333101	.3665536
Provincial	-.7142861	1.731212	-0.41	0.680	-4.107399	2.678827
win_margin	.0009292	.002768	0.34	0.737	-.0044959	.0063543
abstentionism	.0026479	.004738	0.56	0.576	-.0066383	.0119341
pop_share014	.013865	.0099902	1.39	0.165	-.0057156	.0334455
pop_share65plus	.0470218	.027155	1.73	0.083	-.006201	.1002446
_cons	2.094496	.966433	2.17	0.030	.2003223	3.98867

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L1_rpc_sub_all L2.L1_rpc_sub_all L1.Age L2.Age L1.2.sex L2.2.sex

```

```

L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
2, model(level):
  D.L1_rpc_sub_all D.elec_t D.L.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(24) = **37.9930**
Prob > chi2 = **0.0347**

2-step moment functions, 3-step weighting matrix chi2(24) = **43.9391**
Prob > chi2 = **0.0078**

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = **-4.1950** Prob > |z| = **0.0000**
H0: no autocorrelation of order 2: z = **1.3194** Prob > |z| = **0.1870**

Generalized method of moments estimation

Fitting full model:
Step 1 f(b) = **.02692384**
Step 2 f(b) = **.67086665**

Fitting reduced model 2:
Step 1 f(b) = **.60715694**

Group variable: **mun_id** Number of obs = **1123**
Time variable: **year** Number of groups = **81**

Moment conditions: linear = **51** Obs per group: min = **10**
 nonlinear = **0** avg = **13.8642**
 total = **51** max = **14**

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_sub_all	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_sub_all						
L1.	.6200387	.1067716	5.81	0.000	.4107703	.8293071
elec_t						
--.	.0086535	.0229064	0.38	0.706	-.0362424	.0535493
L1.	.0648532	.02546	2.55	0.011	.0149525	.1147538
Age	.0011216	.0030948	0.36	0.717	-.0049441	.0071873
sex						
Male	-.0080291	.0679059	-0.12	0.906	-.1411223	.125064
k_12centers	-.0004702	.0006222	-0.76	0.450	-.0016896	.0007492
gdp	5.49e-09	4.21e-09	1.30	0.193	-2.77e-09	1.38e-08
interest_rate	-.0095837	.0077056	-1.24	0.214	-.0246864	.0055191
debt	-.0014923	.0015417	-0.97	0.333	-.004514	.0015294
deficit	1.74e-08	3.71e-08	0.47	0.638	-5.52e-08	9.01e-08
party_type						
National	.1371411	.1040006	1.32	0.187	-.0666963	.3409785
Provincial	-1.371407	1.531413	-0.90	0.371	-4.372922	1.630107
win_margin	.0003608	.0028826	0.13	0.900	-.0052891	.0060106
abstentionism	.0005178	.0042324	0.12	0.903	-.0077775	.0088131
pop_share014	.0070522	.0104585	0.67	0.500	-.013446	.0275504
pop_share65plus	.0327465	.0299465	1.09	0.274	-.0259475	.0914405
_cons	1.944018	.8776415	2.22	0.027	.2238722	3.664164

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L1_rpc_sub_all L2.L1_rpc_sub_all L3.L1_rpc_sub_all L1.Age L2.Age
  L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
  L3.k_12centers L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate
  L3.interest_rate L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit
  L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L1.3.party_type
  L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
  L1.abstentionism L2.abstentionism L3.abstentionism L1.pop_share014
  L2.pop_share014 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus
  L3.pop_share65plus
2, model(level):
  D.L1_rpc_sub_all D.Age D.2.sex D.k_12centers D.gdp D.interest_rate D.debt
  D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

```
2-step moment functions, 2-step weighting matrix      chi2(36)      =    54.3402
                                                         Prob > chi2    =    0.0255
```

```
2-step moment functions, 3-step weighting matrix      chi2(36)      =    59.7920
                                                         Prob > chi2    =    0.0076
```

Arellano-Bond test for autocorrelation of the first-differenced residuals

```
H0: no autocorrelation of order 1:      z =    -4.6103      Prob > |z|    =    0.0000
H0: no autocorrelation of order 2:      z =     1.3915      Prob > |z|    =    0.1641
```

Generalized method of moments estimation

Fitting full model:

```
Step 1      f(b) =    .02879806
Step 2      f(b) =    .79237629
```

Fitting reduced model 2:

```
Step 1      f(b) =    .69372036
```

```
Group variable: mun_id      Number of obs      =    1123
Time variable: year      Number of groups    =     81
```

```
Moment conditions:      linear =     61      Obs per group:      min =     10
                        nonlinear =     0                        avg =    13.8642
                        total =     61                        max =     14
```

(Std. err. adjusted for 81 clusters in mun_id)

l_rpc_sub_all	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_sub_all						
L1.	.5678594	.1018067	5.58	0.000	.3683221	.7673968
elec_t						
--.	-.0055034	.0211918	-0.26	0.795	-.0470385	.0360317
L1.	.0405635	.0228264	1.78	0.076	-.0041753	.0853023
Age	.0011677	.0027219	0.43	0.668	-.0041671	.0065026
sex						
Male	-.0048589	.0687905	-0.07	0.944	-.1396858	.1299681
k_12centers	-.0004692	.0005352	-0.88	0.381	-.0015182	.0005798
gdp	3.80e-09	4.09e-09	0.93	0.353	-4.22e-09	1.18e-08
interest_rate	-.0103495	.0074851	-1.38	0.167	-.02502	.004321
debt	-.0022269	.0014717	-1.51	0.130	-.0051113	.0006576
deficit	3.19e-08	3.36e-08	0.95	0.343	-3.40e-08	9.78e-08
party_type						
National	.0845384	.1416392	0.60	0.551	-.1930693	.3621462
Provincial	-.6688834	1.246951	-0.54	0.592	-3.112862	1.775095

win_margin	.0003809	.0024975	0.15	0.879	-.004514	.0052759
abstentionism	.0006813	.0039375	0.17	0.863	-.007036	.0083985
pop_share014	.0052655	.009365	0.56	0.574	-.0130895	.0236204
pop_share65plus	.0577726	.02548	2.27	0.023	.0078327	.1077125
_cons	2.284983	.7888912	2.90	0.004	.7387851	3.831182

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L1_rpc_sub_all L2.L1_rpc_sub_all L3.L1_rpc_sub_all L4.L1_rpc_sub_all
  L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex L4.2.sex
  L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp L2.gdp
  L3.gdp L4.gdp L4.interest_rate L2.debt L3.debt L4.debt L1.deficit
  L2.deficit L3.deficit L4.deficit L1.2bn.party_type L2.2bn.party_type
  L3.2bn.party_type L4.2bn.party_type L1.3.party_type L2.3.party_type
  L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin L3.win_margin
  L4.win_margin L1.abstentionism L2.abstentionism L3.abstentionism
  L4.abstentionism L1.pop_share014 L2.pop_share014 L3.pop_share014
  L4.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus
  L4.pop_share65plus
2, model(level):
  D.L1_rpc_sub_all D.Age D.2.sex D.k_12centers D.gdp D.interest_rate D.debt
  D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(46) = 64.1825
 Prob > chi2 = 0.0393

2-step moment functions, 3-step weighting matrix chi2(46) = 70.1201
 Prob > chi2 = 0.0125

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -4.5936 Prob > |z| = 0.0000
 H0: no autocorrelation of order 2: z = 1.3761 Prob > |z| = 0.1688

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .0026085
 Step 2 f(b) = .10815108

Group variable: mun_id Number of obs = 1040
 Time variable: year Number of groups = 81

Moment conditions: linear = 26 Obs per group: min = 8
 nonlinear = 0 avg = 12.83951
 total = 26 max = 13

(Std. err. adjusted for 81 clusters in mun_id)

l_rpc_sub_all	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_sub_all						
L1.	.6365496	.0999051	6.37	0.000	.4407393	.83236
L2.	.1699143	.0613854	2.77	0.006	.0496011	.2902275
elec_t						
--.	-.0179822	.025065	-0.72	0.473	-.0671086	.0311443
L1.	.0966554	.0242828	3.98	0.000	.0490621	.1442487
Age	.0013581	.0034932	0.39	0.697	-.0054883	.0082046
sex						
Male	-.0195334	.0602584	-0.32	0.746	-.1376377	.0985708
k_12centers	-.0000601	.000617	-0.10	0.922	-.0012693	.0011492
gdp	2.12e-08	6.85e-09	3.10	0.002	7.80e-09	3.46e-08
interest_rate	-.0089906	.0097813	-0.92	0.358	-.0281617	.0101804
debt	-.0097597	.0027191	-3.59	0.000	-.0150891	-.0044304

deficit	5.03e-08	3.82e-08	1.32	0.188	-2.46e-08	1.25e-07
party_type						
National	.416315	.2826034	1.47	0.141	-.1375775	.9702075
Provincial	-4.235442	4.403842	-0.96	0.336	-12.86681	4.395929
win_margin	-.0001437	.0030527	-0.05	0.962	-.0061268	.0058395
abstentionism	.0037976	.0040165	0.95	0.344	-.0040746	.0116698
pop_share014	.0179748	.012167	1.48	0.140	-.0058722	.0418218
pop_share65plus	.0648751	.0233395	2.78	0.005	.0191305	.1106198
_cons	-.2176736	1.041613	-0.21	0.834	-2.259198	1.823851

Instruments corresponding to the linear moment conditions:

- 1, model(diff):
 - L1.L2.l_rpc_sub_all L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
 - L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
 - L1.abstentionism L1.pop_share014 L1.pop_share65plus
- 2, model(level):
 - D.L.l_rpc_sub_all D.L2.l_rpc_sub_all D.elec_t D.L.elec_t D.Age D.2.sex
 - D.k_12centers D.gdp D.interest_rate D.debt D.deficit
- 3, model(level):
 - _cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(10) = 8.7602
 Prob > chi2 = 0.5550

2-step moment functions, 3-step weighting matrix chi2(10) = 20.9792
 Prob > chi2 = 0.0212

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -4.8407 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = -1.7493 Prob > |z| = 0.0802

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .00909677

Step 2 f(b) = .34854659

Fitting reduced model 2:

Step 1 f(b) = .11209942

Group variable: **mun_id** Number of obs = 1040

Time variable: **year** Number of groups = 81

Moment conditions: linear = 40 Obs per group: min = 8
 nonlinear = 0 avg = 12.83951
 total = 40 max = 13

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_sub_all	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_sub_all						
L1.	.6252198	.080342	7.78	0.000	.4677524	.7826873
L2.	.1435505	.0791863	1.81	0.070	-.0116519	.2987529
elec_t						
--.	-.0178745	.0274353	-0.65	0.515	-.0716467	.0358977
L1.	.0882927	.028212	3.13	0.002	.0329982	.1435873
Age	.0057616	.0037781	1.52	0.127	-.0016435	.0131666
sex						
Male	-.0416399	.0480948	-0.87	0.387	-.1359039	.0526241
k_12centers	.0005622	.0006206	0.91	0.365	-.0006542	.0017786
gdp	1.86e-08	4.77e-09	3.91	0.000	9.29e-09	2.80e-08
interest_rate	-.0046716	.0081199	-0.58	0.565	-.0205864	.0112431

debt	-.0080841	.0022238	-3.64	0.000	-.0124427	-.0037255
deficit	4.27e-08	4.69e-08	0.91	0.362	-4.92e-08	1.35e-07
party_type						
National	.2670873	.2553984	1.05	0.296	-.2334843	.7676589
Provincial	-5.053101	3.32379	-1.52	0.128	-11.56761	1.461408
win_margin	-.0006458	.00333	-0.19	0.846	-.0071726	.0058809
abstentionism	.0044812	.0048824	0.92	0.359	-.0050881	.0140506
pop_share014	.0076468	.0123539	0.62	0.536	-.0165663	.0318599
pop_share65plus	.0436861	.0341054	1.28	0.200	-.0231592	.1105315
_cons	.2157952	1.017786	0.21	0.832	-1.779029	2.21062

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.1_rpc_sub_all L2.L2.1_rpc_sub_all L1.Age L2.Age L1.2.sex L2.2.sex
 L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
 L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
 L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
 L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
 L2.pop_share014 L1.pop_share65plus L2.pop_share65plus

2, model(level):

D.L.1_rpc_sub_all D.L2.1_rpc_sub_all D.elec_t D.L.elec_t D.Age D.2.sex
 D.k_12centers D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(24) = 28.2323
 Prob > chi2 = 0.2504

2-step moment functions, 3-step weighting matrix chi2(24) = 52.5164
 Prob > chi2 = 0.0007

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -4.6300 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = -1.0767 Prob > |z| = 0.2816

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .01439142

Step 2 f(b) = .47779392

Fitting reduced model 2:

Step 1 f(b) = .30732448

Group variable: mun_id Number of obs = 1040

Time variable: year Number of groups = 81

Moment conditions: linear = 51 Obs per group: min = 8
 nonlinear = 0 avg = 12.83951
 total = 51 max = 13

(Std. err. adjusted for 81 clusters in mun_id)

l_rpc_sub_all	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_sub_all						
L1.	.6003807	.0833675	7.20	0.000	.4369834	.7637779
L2.	.1404341	.0747204	1.88	0.060	-.0060152	.2868835
elec_t						
--.	-.0202347	.0270254	-0.75	0.454	-.0732036	.0327342
L1.	.0908992	.0292228	3.11	0.002	.0336235	.1481749
Age	.0023294	.0030905	0.75	0.451	-.0037279	.0083868
sex						

Male	-.0520239	.0467842	-1.11	0.266	-.1437191	.0396714
k_12centers	.0005729	.0006949	0.82	0.410	-.000789	.0019349
gdp	1.88e-08	4.52e-09	4.15	0.000	9.93e-09	2.77e-08
interest_rate	-.0055679	.0080805	-0.69	0.491	-.0214054	.0102696
debt	-.0081424	.0019126	-4.26	0.000	-.0118909	-.0043938
deficit	3.86e-08	4.74e-08	0.81	0.416	-5.43e-08	1.31e-07
party_type						
National	.2464002	.2303912	1.07	0.285	-.2051582	.6979586
Provincial	-3.962168	2.987827	-1.33	0.185	-9.818201	1.893865
win_margin	-.0012061	.0034575	-0.35	0.727	-.0079826	.0055704
abstentionism	.0047968	.0049001	0.98	0.328	-.0048072	.0144008
pop_share014	.0087172	.0124132	0.70	0.483	-.0156122	.0330466
pop_share65plus	.0511892	.0297998	1.72	0.086	-.0072173	.1095957
_cons	.503966	.9672534	0.52	0.602	-1.391816	2.399748

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.1_rpc_sub_all L2.L2.1_rpc_sub_all L3.L2.1_rpc_sub_all L1.Age L2.Age
 L3.Age L1.2_sex L2.2_sex L3.2_sex L1.k_12centers L2.k_12centers
 L3.k_12centers L1.gdp L2.gdp L3.gdp L3.interest_rate L1.debt L2.debt
 L3.debt L1.deficit L2.deficit L3.deficit L1.2bn.party_type
 L2.2bn.party_type L3.2bn.party_type L1.3.party_type L2.3.party_type
 L3.3.party_type L1.win_margin L2.win_margin L3.win_margin L1.abstentionism
 L2.abstentionism L3.abstentionism L1.pop_share014 L2.pop_share014
 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus

2, model(level):

D.L.1_rpc_sub_all D.L2.1_rpc_sub_all D.elec_t D.Age D.2.sex D.k_12centers
 D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(35) = 38.7013
 Prob > chi2 = 0.3061

2-step moment functions, 3-step weighting matrix chi2(35) = 56.0938
 Prob > chi2 = 0.0133

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -4.2809 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = -1.1501 Prob > |z| = 0.2501

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .01704147

Step 2 f(b) = .57962079

Fitting reduced model 2:

Step 1 f(b) = .44472978

Group variable: mun_id

Number of obs = 1040

Time variable: year

Number of groups = 81

Moment conditions: linear = 61
 nonlinear = 0
 total = 61

Obs per group: min = 8
 avg = 12.83951
 max = 13

Fitting reduced model 2:

Step 1 f(b) = **2.349e-21**Group variable: **mun_id**Number of obs = **1061**Time variable: **year**Number of groups = **80**

Moment conditions:

linear =	24
nonlinear =	0
total =	24

Obs per group:

min =	4
avg =	13.2625
max =	14

(Std. err. adjusted for **80** clusters in **mun_id**)

l_rpc_rent_mef	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_rent_mef						
L1.	.6164258	.0761936	8.09	0.000	.467089	.7657625
elec_t	.1351496	.1339652	1.01	0.313	-.1274173	.3977165
Age	-.0062648	.019382	-0.32	0.747	-.0442528	.0317232
sex						
Male	.2449572	.5151087	0.48	0.634	-.7646373	1.254552
k_12centers	.0003927	.0036804	0.11	0.915	-.0068208	.0076061
gdp	-4.94e-08	3.56e-08	-1.39	0.166	-1.19e-07	2.05e-08
interest_rate	.0577448	.0450431	1.28	0.200	-.0305381	.1460277
debt	.0078403	.0152304	0.51	0.607	-.0220108	.0376913
deficit	-3.59e-07	2.13e-07	-1.68	0.092	-7.77e-07	5.88e-08
party_type						
National	.2496426	1.776343	0.14	0.888	-3.231927	3.731212
Provincial	-1.213079	13.1403	-0.09	0.926	-26.9676	24.54144
win_margin	.0091692	.019494	0.47	0.638	-.0290383	.0473767
abstentionism	-.057232	.0446414	-1.28	0.200	-.1447275	.0302636
pop_share014	.1197273	.0605278	1.98	0.048	.001095	.2383596
pop_share65plus	.2293846	.2451208	0.94	0.349	-.2510433	.7098125
_cons	1.530716	5.115892	0.30	0.765	-8.496248	11.55768

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L1_rpc_rent_mef L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
 L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
 L1.abstentionism L1.pop_share014 L1.pop_share65plus

2, model(level):

D.L1_rpc_rent_mef D.elec_t D.Age D.2.sex D.k_12centers D.gdp
 D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(10) = **15.0518**
 Prob > chi2 = **0.1302**

2-step moment functions, 3-step weighting matrix chi2(10) = **15.4673**
 Prob > chi2 = **0.1159**

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-5.8271** Prob > |z| = **0.0000**H0: no autocorrelation of order 2: z = **1.4390** Prob > |z| = **0.1501**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.63773922**Step 2 f(b) = **.30040493**

Fitting reduced model 2:

Step 1 f(b) = **.14169762**

Group variable: **mun_id** Number of obs = **1061**
 Time variable: **year** Number of groups = **80**

Moment conditions: linear = **38** Obs per group: min = **4**
 nonlinear = **0** avg = **13.2625**
 total = **38** max = **14**

(Std. err. adjusted for **80** clusters in **mun_id**)

l_rpc_rent_mef	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_rent_mef L1.	.5451478	.0667537	8.17	0.000	.4143129	.6759826
elec_t	.1764546	.1314408	1.34	0.179	-.0811647	.4340739
Age	-.0230669	.0123225	-1.87	0.061	-.0472185	.0010847
sex						
Male	.5056654	.3503717	1.44	0.149	-.1810504	1.192381
k_12centers	-.0029998	.0028529	-1.05	0.293	-.0085915	.0025919
gdp	3.77e-09	2.43e-08	0.16	0.877	-4.38e-08	5.14e-08
interest_rate	-.0109046	.0340012	-0.32	0.748	-.0775458	.0557366
debt	.0065023	.0129435	0.50	0.615	-.0188666	.0318712
deficit	-4.43e-07	1.78e-07	-2.48	0.013	-7.92e-07	-9.33e-08
party_type						
National	.150755	1.625631	0.09	0.926	-3.035423	3.336933
Provincial	.4658235	5.324579	0.09	0.930	-9.97016	10.90181
win_margin	.0290844	.0176395	1.65	0.099	-.0054884	.0636572
abstentionism	-.0964077	.0307037	-3.14	0.002	-.156586	-.0362295
pop_share014	.1914298	.0617296	3.10	0.002	.0704419	.3124176
pop_share65plus	-.0631761	.1749375	-0.36	0.718	-.4060473	.2796952
_cons	4.827265	3.567634	1.35	0.176	-2.165169	11.8197

Instruments corresponding to the linear moment conditions:

1, model(diff):
 L1.L1_rpc_rent_mef L2.L1_rpc_rent_mef L1.Age L2.Age L1.2.sex L2.2.sex
 L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
 L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
 L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
 L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
 L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
 2, model(level):
 D.L1_rpc_rent_mef D.elec_t D.Age D.2.sex D.k_12centers D.gdp
 D.interest_rate D.debt D.deficit
 3, model(level):
 _cons

Sargan-Hansen test of the overidentifying restrictions
 H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(24) = **24.0324**
 Prob > chi2 = **0.4597**

2-step moment functions, 3-step weighting matrix chi2(24) = **27.6987**
 Prob > chi2 = **0.2730**

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-5.3771** Prob > |z| = **0.0000**
 H0: no autocorrelation of order 2: z = **1.1851** Prob > |z| = **0.2360**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **1.1996303**
 Step 2 f(b) = **.49024755**

Fitting reduced model 2:

Step 1 f(b) = **.28962701**

Group variable: **mun_id** Number of obs = **1061**
 Time variable: **year** Number of groups = **80**

Moment conditions: linear = **52** Obs per group: min = **4**
 nonlinear = **0** avg = **13.2625**
 total = **52** max = **14**

(Std. err. adjusted for **80** clusters in **mun_id**)

l_rpc_rent_mef	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_rent_mef						
L1.	.553808	.0556837	9.95	0.000	.4446699	.6629461
elec_t	.054622	.1104349	0.49	0.621	-.1618264	.2710704
Age	-.0017009	.0101383	-0.17	0.867	-.0215715	.0181697
sex						
Male	.3752759	.2813947	1.33	0.182	-.1762475	.9267994
k_12centers	-.0011012	.001778	-0.62	0.536	-.004586	.0023836
gdp	6.71e-09	1.94e-08	0.35	0.729	-3.13e-08	4.47e-08
interest_rate	-.0560451	.0313804	-1.79	0.074	-.1175496	.0054593
debt	-.0053253	.0100942	-0.53	0.598	-.0251095	.0144589
deficit	-2.57e-07	1.41e-07	-1.82	0.068	-5.33e-07	1.91e-08
party_type						
National	-.018292	.6747215	-0.03	0.978	-1.340722	1.304138
Provincial	2.553592	7.946126	0.32	0.748	-13.02053	18.12771
win_margin	.0110478	.0103858	1.06	0.287	-.009308	.0314036
abstentionism	-.0451915	.022061	-2.05	0.041	-.0884302	-.0019528
pop_share014	.114564	.0274183	4.18	0.000	.0608252	.1683028
pop_share65plus	-.0133697	.119344	-0.11	0.911	-.2472795	.2205402
_cons	3.294693	2.165003	1.52	0.128	-.9486336	7.53802

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L1_rpc_rent_mef L2.L1_rpc_rent_mef L3.L1_rpc_rent_mef L1.Age L2.Age
 L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
 L3.k_12centers L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate
 L3.interest_rate L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit
 L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L1.3.party_type
 L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
 L1.abstentionism L2.abstentionism L3.abstentionism L1.pop_share014
 L2.pop_share014 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus
 L3.pop_share65plus

2, model(level):

D.L1_rpc_rent_mef D.elec_t D.Age D.2.sex D.k_12centers D.gdp
 D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(38) = **39.2198**
 Prob > chi2 = **0.4150**

2-step moment functions, 3-step weighting matrix chi2(38) = **44.5386**
 Prob > chi2 = **0.2158**

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-5.8664** Prob > |z| = **0.0000**

H0: no autocorrelation of order 2: z = **1.4137** Prob > |z| = **0.1574**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **1.2517452**

Step 2 f(b) = **.57460928**

Fitting reduced model 2:

Step 1 f(b) = .39571182

Group variable: **mun_id**

Number of obs = 1061

Time variable: **year**

Number of groups = 80

Moment conditions:

linear =	63
nonlinear =	0
total =	63

Obs per group:

min =	4
avg =	13.2625
max =	14

(Std. err. adjusted for 80 clusters in **mun_id**)

l_rpc_rent_mef	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_rent_mef						
L1.	.5277293	.0483473	10.92	0.000	.4329703	.6224883
elec_t	.0612766	.0946842	0.65	0.518	-.124301	.2468543
Age	-.0002656	.0102213	-0.03	0.979	-.020299	.0197679
sex						
Male	.2635293	.255792	1.03	0.303	-.2378139	.7648725
k_12centers	-.0015719	.0017908	-0.88	0.380	-.0050818	.0019379
gdp	9.16e-09	1.84e-08	0.50	0.619	-2.69e-08	4.52e-08
interest_rate	-.0555397	.0296889	-1.87	0.061	-.1137289	.0026495
debt	-.0062778	.0096209	-0.65	0.514	-.0251345	.0125789
deficit	-2.20e-07	1.28e-07	-1.73	0.084	-4.70e-07	2.97e-08
party_type						
National	-.1602845	.6881175	-0.23	0.816	-1.50897	1.188401
Provincial	6.063988	7.630577	0.79	0.427	-8.891669	21.01964
win_margin	.0049351	.0103586	0.48	0.634	-.0153673	.0252376
abstentionism	-.0268034	.0196442	-1.36	0.172	-.0653053	.0116986
pop_share014	.1195439	.0297209	4.02	0.000	.0612919	.1777958
pop_share65plus	.0589708	.113539	0.52	0.603	-.1635616	.2815031
_cons	1.887011	2.282777	0.83	0.408	-2.58715	6.361172

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L1_rpc_rent_mef L2.L1_rpc_rent_mef L3.L1_rpc_rent_mef
 L4.L1_rpc_rent_mef L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex
 L4.2.sex L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp
 L2.gdp L3.gdp L4.gdp L2.interest_rate L1.debt L2.debt L3.debt L4.debt
 L1.deficit L2.deficit L3.deficit L4.deficit L1.2bn.party_type
 L2.2bn.party_type L3.2bn.party_type L4.2bn.party_type L1.3.party_type
 L2.3.party_type L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin
 L3.win_margin L4.win_margin L1.abstentionism L2.abstentionism
 L3.abstentionism L4.abstentionism L1.pop_share014 L2.pop_share014
 L3.pop_share014 L4.pop_share014 L1.pop_share65plus L2.pop_share65plus
 L3.pop_share65plus L4.pop_share65plus

2, model(level):

D.L1_rpc_rent_mef D.elec_t D.Age D.2.sex D.k_12centers D.gdp
 D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(49) = 45.9687
 Prob > chi2 = 0.5968

2-step moment functions, 3-step weighting matrix chi2(49) = 55.2930
 Prob > chi2 = 0.2492

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -5.8717 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = 1.3293 Prob > |z| = 0.1838

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .32256502

Step 2 f(b) = .16007533

Fitting reduced model 2:

Step 1 f(b) = 4.789e-23

Group variable: **mun_id** Number of obs = 973Time variable: **year** Number of groups = 80

Moment conditions: linear = 25 Obs per group: min = 2
 nonlinear = 0 avg = 12.1625
 total = 25 max = 13

(Std. err. adjusted for 80 clusters in **mun_id**)

l_rpc_rent_mef	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_rent_mef						
L1.	.6608121	.0780123	8.47	0.000	.5079108	.8137135
L2.	.1061261	.0924942	1.15	0.251	-.0751591	.2874113
elec_t	.1621911	.116506	1.39	0.164	-.0661564	.3905386
Age	.0013795	.0194182	0.07	0.943	-.0366794	.0394384
sex						
Male	.2141532	.3562457	0.60	0.548	-.4840754	.9123819
k_12centers	.0002134	.0024793	0.09	0.931	-.0046459	.0050727
gdp	-5.68e-08	5.02e-08	-1.13	0.257	-1.55e-07	4.15e-08
interest_rate	.0506811	.0563771	0.90	0.369	-.059816	.1611781
debt	.0165539	.0184221	0.90	0.369	-.0195528	.0526606
deficit	-4.38e-07	1.78e-07	-2.46	0.014	-7.87e-07	-8.96e-08
party_type						
National	-.9550019	.8939239	-1.07	0.285	-2.707061	.7970568
Provincial	-.2542709	11.96258	-0.02	0.983	-23.7005	23.19195
win_margin	.0091491	.0206962	0.44	0.658	-.0314148	.0497129
abstentionism	-.0424904	.0458642	-0.93	0.354	-.1323826	.0474017
pop_share014	.1116996	.0312296	3.58	0.000	.0504908	.1729084
pop_share65plus	.1234161	.1472229	0.84	0.402	-.1651355	.4119677
_cons	1.009809	4.04232	0.25	0.803	-6.912993	8.932612

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.l_rpc_rent_mef L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
 L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
 L1.abstentionism L1.pop_share014 L1.pop_share65plus

2, model(level):

D.L.l_rpc_rent_mef D.L2.l_rpc_rent_mef D.elec_t D.Age D.2.sex D.k_12centers
 D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(10) = 12.8060
 Prob > chi2 = 0.2347

2-step moment functions, 3-step weighting matrix chi2(10) = 13.2079
 Prob > chi2 = 0.2123

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -5.6251 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = 0.8315 Prob > |z| = 0.4057

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .57507479

Step 2 f(b) = .38672961

Fitting reduced model 2:

Step 1 f(b) = .19769227

Group variable: **mun_id**

Number of obs = 973

Time variable: **year**

Number of groups = 80

Moment conditions: linear = 39

Obs per group: min = 2

nonlinear = 0

avg = 12.1625

total = 39

max = 13

(Std. err. adjusted for 80 clusters in **mun_id**)

l_rpc_rent_mef	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_rent_mef						
L1.	.5720995	.0782315	7.31	0.000	.4187687	.7254304
L2.	.0176936	.0884948	0.20	0.842	-.1557531	.1911403
elec_t	.0907769	.1228104	0.74	0.460	-.149927	.3314807
Age	-.0112122	.0165092	-0.68	0.497	-.0435697	.0211453
sex						
Male	.426656	.281306	1.52	0.129	-.1246935	.9780056
k_12centers	-.0008707	.0024875	-0.35	0.726	-.005746	.0040046
gdp	8.50e-09	3.29e-08	0.26	0.796	-5.60e-08	7.30e-08
interest_rate	-.0367406	.0401883	-0.91	0.361	-.1155082	.042027
debt	-.0039302	.0144476	-0.27	0.786	-.0322471	.0243866
deficit	-3.04e-07	1.60e-07	-1.90	0.058	-6.19e-07	1.01e-08
party_type						
National	-.3971881	1.052348	-0.38	0.706	-2.459753	1.665377
Provincial	-.3586376	11.72394	-0.03	0.976	-23.33713	22.61986
win_margin	.0232495	.0171401	1.36	0.175	-.0103446	.0568435
abstentionism	-.066375	.0372883	-1.78	0.075	-.1394587	.0067088
pop_share014	.1351829	.0384433	3.52	0.000	.0598354	.2105305
pop_share65plus	-.0219001	.1887309	-0.12	0.908	-.3918059	.3480056
_cons	4.365609	3.618962	1.21	0.228	-2.727427	11.45865

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.1_rpc_rent_mef L2.L2.1_rpc_rent_mef L1.Age L2.Age L1.2.sex L2.2.sex
L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
L2.pop_share014 L1.pop_share65plus L2.pop_share65plus

2, model(level):

D.L.1_rpc_rent_mef D.L2.1_rpc_rent_mef D.elec_t D.Age D.2.sex D.k_12centers
D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(24) = 30.9384
Prob > chi2 = 0.1556

2-step moment functions, 3-step weighting matrix chi2(24) = 33.4296
Prob > chi2 = 0.0953

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -5.4603 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = 1.5048 Prob > |z| = 0.1324

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .70120271

Step 2 f(b) = .44430895

Fitting reduced model 2:

Step 1 f(b) = .26340466

Group variable: mun_id	Number of obs	=	973
Time variable: year	Number of groups	=	80
Moment conditions:	linear =	53	Obs per group: min =
	nonlinear =	0	avg =
	total =	53	max =
			12.1625
			13

(Std. err. adjusted for 80 clusters in **mun_id**)

l_rpc_rent_mef	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_rent_mef						
L1.	.5637456	.0709617	7.94	0.000	.4246632	.702828
L2.	.0322459	.0801568	0.40	0.687	-.1248585	.1893503
elec_t	.1205273	.1140959	1.06	0.291	-.1030965	.3441511
Age	-.0170842	.0152429	-1.12	0.262	-.0469598	.0127913
sex						
Male	.4228486	.2580369	1.64	0.101	-.0828945	.9285916
k_12centers	-.0015575	.0022757	-0.68	0.494	-.0060178	.0029028
gdp	1.89e-08	2.86e-08	0.66	0.508	-3.71e-08	7.49e-08
interest_rate	-.0503785	.0334332	-1.51	0.132	-.1159064	.0151493
debt	-.0036752	.0131159	-0.28	0.779	-.0293819	.0220315
deficit	-3.13e-07	1.39e-07	-2.25	0.024	-5.86e-07	-4.03e-08
party_type						
National	-.1268475	1.016205	-0.12	0.901	-2.118573	1.864878
Provincial	-1.266688	12.5355	-0.10	0.920	-25.83582	23.30244
win_margin	.0197907	.0167208	1.18	0.237	-.0129815	.0525628
abstentionism	-.0652368	.032439	-2.01	0.044	-.1288161	-.0016576
pop_share014	.1339635	.0326424	4.10	0.000	.0699856	.1979413
pop_share65plus	-.0938677	.1260244	-0.74	0.456	-.3408711	.1531357
_cons	4.728189	2.821296	1.68	0.094	-.8014491	10.25783

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.1_rpc_rent_mef L2.L2.1_rpc_rent_mef L3.L2.1_rpc_rent_mef L1.Age
 L2.Age L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
 L3.k_12centers L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate
 L3.interest_rate L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit
 L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L1.3.party_type
 L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
 L1.abstentionism L2.abstentionism L3.abstentionism L1.pop_share014
 L2.pop_share014 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus
 L3.pop_share65plus

2, model(level):

D.L.1_rpc_rent_mef D.L2.1_rpc_rent_mef D.elec_t D.Age D.2.sex D.k_12centers
 D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix	chi2(38)	=	35.5447
	Prob > chi2	=	0.5835

2-step moment functions, 3-step weighting matrix	chi2(38)	=	40.9531
	Prob > chi2	=	0.3422

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-5.4569** Prob > |z| = **0.0000**
H0: no autocorrelation of order 2: z = **1.1779** Prob > |z| = **0.2388**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.76062666**
Step 2 f(b) = **.48867894**

Fitting reduced model 2:

Step 1 f(b) = **.35193228**

Group variable: **mun_id** Number of obs = **973**
Time variable: **year** Number of groups = **80**

Moment conditions: linear = **63** Obs per group: min = **2**
nonlinear = **0** avg = **12.1625**
total = **63** max = **13**

(Std. err. adjusted for **80** clusters in **mun_id**)

l_rpc_rent_mef	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_rent_mef						
L1.	.5453453	.066947	8.15	0.000	.4141317	.6765589
L2.	.0255578	.0706866	0.36	0.718	-.1129854	.1641009
elec_t	.1011149	.1087737	0.93	0.353	-.1120776	.3143074
Age	-.0100392	.013896	-0.72	0.470	-.037275	.0171965
sex						
Male	.3406284	.2331139	1.46	0.144	-.1162663	.7975232
k_12centers	-.0014393	.0020783	-0.69	0.489	-.0055128	.0026341
gdp	2.53e-08	2.42e-08	1.04	0.297	-2.22e-08	7.28e-08
interest_rate	-.0451227	.0317401	-1.42	0.155	-.1073321	.0170867
debt	-.0066001	.0115286	-0.57	0.567	-.0291959	.0159956
deficit	-3.08e-07	1.36e-07	-2.27	0.023	-5.73e-07	-4.19e-08
party_type						
National	-.2150923	.7545841	-0.29	0.776	-1.69405	1.263865
Provincial	-2.324123	8.401953	-0.28	0.782	-18.79165	14.1434
win_margin	.013897	.016127	0.86	0.389	-.0177113	.0455053
abstentionism	-.0548865	.0314596	-1.74	0.081	-.1165461	.0067732
pop_share014	.1377719	.0304704	4.52	0.000	.078051	.1974929
pop_share65plus	-.0501635	.1363016	-0.37	0.713	-.3173097	.2169827
_cons	3.607451	3.232922	1.12	0.264	-2.728959	9.943862

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.1_rpc_rent_mef L2.L2.1_rpc_rent_mef L3.L2.1_rpc_rent_mef
L4.L2.1_rpc_rent_mef L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex
L4.2.sex L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp
L2.gdp L3.gdp L4.gdp L2.interest_rate L2.debt L3.debt L4.debt L1.deficit
L2.deficit L3.deficit L4.deficit L1.2bn.party_type L2.2bn.party_type
L3.2bn.party_type L4.2bn.party_type L1.3.party_type L2.3.party_type
L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin L3.win_margin
L4.win_margin L1.abstentionism L2.abstentionism L3.abstentionism
L4.abstentionism L1.pop_share014 L2.pop_share014 L3.pop_share014
L4.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus
L4.pop_share65plus

2, model(level):

D.L.1_rpc_rent_mef D.L2.1_rpc_rent_mef D.elec_t D.Age D.2.sex D.k_12centers
D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(48) = 39.0943
 Prob > chi2 = 0.8167

2-step moment functions, 3-step weighting matrix chi2(48) = 51.5051
 Prob > chi2 = 0.3383

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -5.6693 Prob > |z| = 0.0000
 H0: no autocorrelation of order 2: z = 1.3326 Prob > |z| = 0.1826

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .37629816
 Step 2 f(b) = .1848244

Fitting reduced model 2:

Step 1 f(b) = 3.568e-22

Group variable: **mun_id** Number of obs = 1061
 Time variable: **year** Number of groups = 80

Moment conditions: linear = 25 Obs per group: min = 4
 nonlinear = 0 avg = 13.2625
 total = 25 max = 14

(Std. err. adjusted for 80 clusters in **mun_id**)

	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_rent_mef						
l_rpc_rent_mef						
L1.	.6018256	.072777	8.27	0.000	.4591854	.7444659
elec_t						
--.	-.0859246	.2242308	-0.38	0.702	-.5254089	.3535597
L1.	-.2780284	.1845886	-1.51	0.132	-.6398154	.0837586
Age	-.0080144	.0182393	-0.44	0.660	-.0437628	.0277341
sex						
Male	.3484086	.4716827	0.74	0.460	-.5760725	1.27289
k_12centers	-.0002093	.0034878	-0.06	0.952	-.0070452	.0066267
gdp	-4.07e-08	3.31e-08	-1.23	0.220	-1.06e-07	2.43e-08
interest_rate	.001504	.0573335	0.03	0.979	-.1108675	.1138755
debt	.0008402	.0182846	0.05	0.963	-.0349969	.0366773
deficit	-1.64e-07	3.09e-07	-0.53	0.596	-7.70e-07	4.42e-07
party_type						
National	.4980902	1.798376	0.28	0.782	-3.026662	4.022843
Provincial	.0090711	12.17226	0.00	0.999	-23.84813	23.86627
win_margin	.0110577	.0181422	0.61	0.542	-.0245004	.0466159
abstentionism	-.070465	.0369744	-1.91	0.057	-.1429335	.0020034
pop_share014	.1074527	.0557619	1.93	0.054	-.0018386	.216744
pop_share65plus	.1797703	.2237246	0.80	0.422	-.2587218	.6182625
_cons	3.824681	4.094103	0.93	0.350	-4.199613	11.84898

Instruments corresponding to the linear moment conditions:

1, model(diff):

 L1.L1_rpc_rent_mef L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
 L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
 L1.abstentionism L1.pop_share014 L1.pop_share65plus

2, model(level):

 D.L1_rpc_rent_mef D.elec_t D.L.elec_t D.Age D.2.sex D.k_12centers D.gdp
 D.interest_rate D.debt D.deficit

3, model(level):

 _cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix $\chi^2(10) = 14.7860$
 Prob > $\chi^2 = 0.1401$

2-step moment functions, 3-step weighting matrix $\chi^2(10) = 15.1678$
 Prob > $\chi^2 = 0.1261$

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: $z = -5.7206$ Prob > $|z| = 0.0000$
 H0: no autocorrelation of order 2: $z = 1.3856$ Prob > $|z| = 0.1659$

Generalized method of moments estimation

Fitting full model:

Step 1 $f(b) = .57966859$

Step 2 $f(b) = .30567078$

Fitting reduced model 2:

Step 1 $f(b) = .09150997$

Group variable: **mun_id** Number of obs = 1061
 Time variable: **year** Number of groups = 80

Moment conditions: linear = 39 Obs per group: min = 4
 nonlinear = 0 avg = 13.2625
 total = 39 max = 14

(Std. err. adjusted for 80 clusters in **mun_id**)

l_rpc_rent_mef	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_rent_mef						
L1.	.552994	.0615787	8.98	0.000	.4323018	.6736861
elec_t						
--.	-.0702701	.2012936	-0.35	0.727	-.4647982	.3242581
L1.	-.2809878	.1651897	-1.70	0.089	-.6047536	.042778
Age	-.0182748	.0129426	-1.41	0.158	-.0436417	.0070922
sex						
Male	.5027782	.3286968	1.53	0.126	-.1414556	1.147012
k_12centers	-.0024543	.002699	-0.91	0.363	-.0077444	.0028357
gdp	-8.64e-10	2.48e-08	-0.03	0.972	-4.95e-08	4.78e-08
interest_rate	-.0700726	.0486795	-1.44	0.150	-.1654828	.0253375
debt	-.0082581	.0152017	-0.54	0.587	-.0380528	.0215367
deficit	-1.58e-07	2.30e-07	-0.69	0.493	-6.09e-07	2.93e-07
party_type						
National	1.027184	1.80016	0.57	0.568	-2.501065	4.555432
Provincial	3.659809	12.93603	0.28	0.777	-21.69435	29.01397
win_margin	.0180523	.0191896	0.94	0.347	-.0195587	.0556632
abstentionism	-.0743251	.0328585	-2.26	0.024	-.1387266	-.0099236
pop_share014	.1647494	.0664003	2.48	0.013	.0346073	.2948915
pop_share65plus	.1452288	.2309399	0.63	0.529	-.3074051	.5978628
_cons	3.215748	4.685442	0.69	0.493	-5.967549	12.39904

Instruments corresponding to the linear moment conditions:

1, model(diff):

 L1.L1.l_rpc_rent_mef L2.L1.l_rpc_rent_mef L1.Age L2.Age L1.2.sex L2.2.sex
 L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
 L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
 L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
 L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
 L2.pop_share014 L1.pop_share65plus L2.pop_share65plus

2, model(level):

 D.L1.l_rpc_rent_mef D.elec_t D.L.elec_t D.Age D.2.sex D.k_12centers D.gdp
 D.interest_rate D.debt D.deficit

3, model(level):

 _cons

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(24) = 24.4537
Prob > chi2 = 0.4359

2-step moment functions, 3-step weighting matrix chi2(24) = 28.2072
Prob > chi2 = 0.2514

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -5.5593 Prob > |z| = 0.0000
H0: no autocorrelation of order 2: z = 1.1507 Prob > |z| = 0.2499

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = 1.101857
Step 2 f(b) = .49056108

Fitting reduced model 2:

Step 1 f(b) = .28700604

Group variable: **mun_id** Number of obs = 1061
Time variable: **year** Number of groups = 80

Moment conditions: linear = 53 Obs per group: min = 4
 nonlinear = 0 avg = 13.2625
 total = 53 max = 14

(Std. err. adjusted for 80 clusters in **mun_id**)

l_rpc_rent_mef	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_rent_mef						
L1.	.5605635	.0565373	9.91	0.000	.4497524	.6713746
elec_t						
--.	-.1570262	.1392543	-1.13	0.259	-.4299596	.1159072
L1.	-.3199412	.1324045	-2.42	0.016	-.5794493	-.0604331
Age	.0009679	.0114076	0.08	0.932	-.0213905	.0233264
sex						
Male	.2466658	.3007099	0.82	0.412	-.3427147	.8360463
k_12centers	.0001992	.0019814	0.10	0.920	-.0036843	.0040827
gdp	8.12e-10	2.11e-08	0.04	0.969	-4.05e-08	4.21e-08
interest_rate	-.12596	.0416587	-3.02	0.002	-.2076095	-.0443105
debt	-.0198145	.0124334	-1.59	0.111	-.0441834	.0045545
deficit	5.79e-08	1.89e-07	0.31	0.759	-3.13e-07	4.29e-07
party_type						
National	.4260682	.9637952	0.44	0.658	-1.462936	2.315072
Provincial	2.02402	5.525066	0.37	0.714	-8.804911	12.85295
win_margin	.0055334	.0107916	0.51	0.608	-.0156178	.0266846
abstentionism	-.0310443	.0264303	-1.17	0.240	-.0828468	.0207582
pop_share014	.079844	.0307202	2.60	0.009	.0196335	.1400545
pop_share65plus	.1456847	.1519559	0.96	0.338	-.1521433	.4435127
_cons	3.364052	2.507208	1.34	0.180	-1.549986	8.27809

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L1_rpc_rent_mef L2.L1_rpc_rent_mef L3.L1_rpc_rent_mef L1.Age L2.Age
L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
L3.k_12centers L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate
L3.interest_rate L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit
L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L1.3.party_type
L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
L1.abstentionism L2.abstentionism L3.abstentionism L1.pop_share014
L2.pop_share014 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus
L3.pop_share65plus

```

2, model(level):
  D.L1_rpc_rent_mef D.elec_t D.L.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(38)      =    39.2449
                                                         Prob > chi2    =    0.4139

```

```

2-step moment functions, 3-step weighting matrix      chi2(38)      =    43.4106
                                                         Prob > chi2    =    0.2517

```

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = **-5.9314** Prob > |z| = **0.0000**
H0: no autocorrelation of order 2: z = **1.2003** Prob > |z| = **0.2300**

Generalized method of moments estimation

```

Fitting full model:
Step 1          f(b) =  1.1665641
Step 2          f(b) =  .58766733

```

```

Fitting reduced model 2:
Step 1          f(b) =  .39590631

```

```

Group variable: mun_id                Number of obs      =    1061
Time variable: year                  Number of groups   =     80

```

```

Moment conditions:      linear =    64      Obs per group:   min =     4
                       nonlinear =    0      avg =    13.2625
                       total =    64      max =     14

```

(Std. err. adjusted for 80 clusters in **mun_id**)

l_rpc_rent_mef	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_rent_mef						
L1.	.5471537	.048663	11.24	0.000	.4517761	.6425314
elec_t						
--.	-.1659899	.1075123	-1.54	0.123	-.3767101	.0447302
L1.	-.3457474	.1231272	-2.81	0.005	-.5870723	-.1044225
Age	.0038738	.0113187	0.34	0.732	-.0183104	.0260581
sex						
Male	.1366978	.2497929	0.55	0.584	-.3528872	.6262828
k_12centers	.0002714	.0022152	0.12	0.902	-.0040703	.0046131
gdp	-3.73e-09	1.86e-08	-0.20	0.841	-4.01e-08	3.26e-08
interest_rate	-.1173074	.0350878	-3.34	0.001	-.1860782	-.0485366
debt	-.0187286	.0099461	-1.88	0.060	-.0382226	.0007653
deficit	5.04e-08	1.39e-07	0.36	0.718	-2.23e-07	3.24e-07
party_type						
National	.2128484	.8750237	0.24	0.808	-1.502167	1.927863
Provincial	7.93128	8.474149	0.94	0.349	-8.677746	24.54031
win_margin	.0034433	.0088002	0.39	0.696	-.0138048	.0206913
abstentionism	-.0177624	.0166142	-1.07	0.285	-.0503256	.0148008
pop_share014	.0903428	.0381355	2.37	0.018	.0155986	.1650869
pop_share65plus	.2585327	.1504548	1.72	0.086	-.0363533	.5534186
_cons	1.643501	2.707968	0.61	0.544	-3.664018	6.95102

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L1_rpc_rent_mef L2.L1_rpc_rent_mef L3.L1_rpc_rent_mef
  L4.L1_rpc_rent_mef L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex
  L4.2.sex L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp

```

```

L2.gdp L3.gdp L4.gdp L2.interest_rate L1.debt L2.debt L3.debt L4.debt
L1.deficit L2.deficit L3.deficit L4.deficit L1.2bn.party_type
L2.2bn.party_type L3.2bn.party_type L4.2bn.party_type L1.3.party_type
L2.3.party_type L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin
L3.win_margin L4.win_margin L1.abstentionism L2.abstentionism
L3.abstentionism L4.abstentionism L1.pop_share014 L2.pop_share014
L3.pop_share014 L4.pop_share014 L1.pop_share65plus L2.pop_share65plus
L3.pop_share65plus L4.pop_share65plus
2, model(level):
  D.L1_rpc_rent_mef D.elec_t D.L.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(49)    =    47.0134
                                                        Prob > chi2 =    0.5540

```

```

2-step moment functions, 3-step weighting matrix      chi2(49)    =    56.1102
                                                        Prob > chi2 =    0.2258

```

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = -5.8837 Prob > |z| = 0.0000
H0: no autocorrelation of order 2: z = 1.1727 Prob > |z| = 0.2409

Generalized method of moments estimation

```

Fitting full model:
Step 1            f(b) =    .34057096
Step 2            f(b) =    .15537425

```

```

Group variable: mun_id                                    Number of obs                =        973
Time variable: year                                      Number of groups            =        80

```

```

Moment conditions:        linear =        26        Obs per group:    min =        2
                         nonlinear =        0                                avg =    12.1625
                         total =        26                                max =        13

```

(Std. err. adjusted for 80 clusters in mun_id)

l_rpc_rent_mef	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_rent_mef						
L1.	.6270737	.0759826	8.25	0.000	.4781507	.7759968
L2.	.0967457	.0919084	1.05	0.293	-.0833915	.2768829
elec_t						
L1.	-.1974282	.159852	-1.24	0.217	-.5107323	.115876
L1.	-.4176553	.1462126	-2.86	0.004	-.7042268	-.1310838
Age	.0006434	.0188401	0.03	0.973	-.0362825	.0375693
sex						
Male	.2684035	.3405104	0.79	0.431	-.3989847	.9357917
k_12centers	-.0001476	.002366	-0.06	0.950	-.0047849	.0044896
gdp	-4.49e-08	4.89e-08	-0.92	0.359	-1.41e-07	5.09e-08
interest_rate	-.0369243	.0638677	-0.58	0.563	-.1621027	.0882541
debt	.0038175	.0188316	0.20	0.839	-.0330918	.0407268
deficit	-1.05e-07	2.13e-07	-0.49	0.621	-5.22e-07	3.12e-07
party_type						
National	-.6002957	.9248435	-0.65	0.516	-2.412956	1.212364
Provincial	1.978361	11.53244	0.17	0.864	-20.62481	24.58153
win_margin	.0095835	.0185595	0.52	0.606	-.0267924	.0459594
abstentionism	-.0507443	.0416413	-1.22	0.223	-.1323596	.0308711
pop_share014	.09534	.0330056	2.89	0.004	.0306503	.1600297
pop_share65plus	.1267782	.1444643	0.88	0.380	-.1563667	.4099231
_cons	3.426527	3.524242	0.97	0.331	-3.48086	10.33391

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L2.1_rpc_rent_mef L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
  L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
  L1.abstentionism L1.pop_share014 L1.pop_share65plus
2, model(level):
  D.L.1_rpc_rent_mef D.L2.1_rpc_rent_mef D.elec_t D.L.elec_t D.Age D.2.sex
  D.k_12centers D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(10) = 12.4299
 Prob > chi2 = 0.2573

2-step moment functions, 3-step weighting matrix chi2(10) = 13.6723
 Prob > chi2 = 0.1885

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -5.5627 Prob > |z| = 0.0000
 H0: no autocorrelation of order 2: z = 0.5377 Prob > |z| = 0.5908

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .54985699
 Step 2 f(b) = .34708137

Fitting reduced model 2:

Step 1 f(b) = .13836079

Group variable: **mun_id** Number of obs = 973
 Time variable: **year** Number of groups = 80

Moment conditions: linear = 40 Obs per group: min = 2
 nonlinear = 0 avg = 12.1625
 total = 40 max = 13

(Std. err. adjusted for 80 clusters in **mun_id**)

	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_rent_mef						
l_rpc_rent_mef						
L1.	.5668679	.0690145	8.21	0.000	.4316019	.7021339
L2.	.0198746	.0860976	0.23	0.817	-.1488735	.1886228
elec_t						
--.	-.1015634	.1556827	-0.65	0.514	-.406696	.2035692
L1.	-.3084307	.1552384	-1.99	0.047	-.6126924	-.004169
Age	-.0102951	.0151393	-0.68	0.496	-.0399675	.0193774
sex						
Male	.3898812	.2645492	1.47	0.141	-.1286258	.9083882
k_12centers	-.0010234	.0021061	-0.49	0.627	-.0051512	.0031045
gdp	3.48e-09	3.35e-08	0.10	0.917	-6.22e-08	6.92e-08
interest_rate	-.104841	.0526797	-1.99	0.047	-.2080913	-.0015907
debt	-.010756	.0143637	-0.75	0.454	-.0389084	.0173963
deficit	-7.03e-08	2.03e-07	-0.35	0.729	-4.68e-07	3.28e-07
party_type						
National	.2125439	1.160883	0.18	0.855	-2.062745	2.487833
Provincial	4.052122	13.06235	0.31	0.756	-21.54962	29.65387
win_margin	.0154235	.0166559	0.93	0.354	-.0172214	.0480685
abstentionism	-.0592799	.036824	-1.61	0.107	-.1314536	.0128938
pop_share014	.1129623	.0341161	3.31	0.001	.046096	.1798285
pop_share65plus	.0203795	.1440216	0.14	0.887	-.2618976	.3026567

_cons	4.977179	2.958632	1.68	0.093	-.8216331	10.77599
--------------	-----------------	-----------------	-------------	--------------	------------------	-----------------

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L2.1_rpc_rent_mef L2.L2.1_rpc_rent_mef L1.Age L2.Age L1.2.sex L2.2.sex
  L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
  L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
  L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
  L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
  L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
2, model(level):
  D.L.1_rpc_rent_mef D.L2.1_rpc_rent_mef D.elec_t D.L.elec_t D.Age D.2.sex
  D.k_12centers D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(24) = **27.7665**
 Prob > chi2 = **0.2700**

2-step moment functions, 3-step weighting matrix chi2(24) = **30.3918**
 Prob > chi2 = **0.1721**

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-5.6731** Prob > |z| = **0.0000**

H0: no autocorrelation of order 2: z = **1.2269** Prob > |z| = **0.2198**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.80719637**

Step 2 f(b) = **.44073101**

Fitting reduced model 2:

Step 1 f(b) = **.25602791**

Group variable: **mun_id**

Number of obs = **973**

Time variable: **year**

Number of groups = **80**

Moment conditions: linear = **54** Obs per group: min = **2**
 nonlinear = **0** avg = **12.1625**
 total = **54** max = **13**

(Std. err. adjusted for **80** clusters in **mun_id**)

	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_rent_mef						
l_rpc_rent_mef						
L1.	.5828897	.0520994	11.19	0.000	.4807768	.6850026
L2.	.0621277	.0762686	0.81	0.415	-.087356	.2116113
elec_t						
--.	-.0634528	.099294	-0.64	0.523	-.2580655	.1311598
L1.	-.2325473	.1229237	-1.89	0.059	-.4734734	.0083788
Age	-.0070672	.0096458	-0.73	0.464	-.0259726	.0118382
sex						
Male	.2115668	.2463981	0.86	0.391	-.2713646	.6944982
k_12centers	-.0014706	.0016507	-0.89	0.373	-.0047059	.0017648
gdp	2.06e-08	3.14e-08	0.66	0.511	-4.09e-08	8.21e-08
interest_rate	-.109662	.0441607	-2.48	0.013	-.1962154	-.0231086
debt	-.0167089	.0132575	-1.26	0.208	-.0426931	.0092753
deficit	-4.06e-08	1.66e-07	-0.24	0.807	-3.67e-07	2.86e-07
party_type						
National	-.1172256	.8315703	-0.14	0.888	-1.747073	1.512622
Provincial	6.611488	12.68944	0.52	0.602	-18.25935	31.48232

win_margin	.0076194	.0131639	0.58	0.563	-.0181813	.0334201
abstentionism	-.0299441	.0261249	-1.15	0.252	-.0811479	.0212596
pop_share014	.1054428	.0295525	3.57	0.000	.047521	.1633646
pop_share65plus	.0478329	.0884738	0.54	0.589	-.1255724	.2212383
_cons	2.980456	2.179294	1.37	0.171	-1.290881	7.251793

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L2.1_rpc_rent_mef L2.L2.1_rpc_rent_mef L3.L2.1_rpc_rent_mef L1.Age
  L2.Age L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
  L3.k_12centers L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate
  L3.interest_rate L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit
  L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L1.3.party_type
  L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
  L1.abstentionism L2.abstentionism L3.abstentionism L1.pop_share014
  L2.pop_share014 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus
  L3.pop_share65plus
2, model(level):
  D.L.1_rpc_rent_mef D.L2.1_rpc_rent_mef D.elec_t D.L.elec_t D.Age D.2.sex
  D.k_12centers D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(38) = 35.2585
 Prob > chi2 = 0.5969

2-step moment functions, 3-step weighting matrix chi2(38) = 39.1476
 Prob > chi2 = 0.4181

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -5.7027 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = 0.7033 Prob > |z| = 0.4818

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .86301002

Step 2 f(b) = .51935438

Fitting reduced model 2:

Step 1 f(b) = .35475399

Group variable: **mun_id** Number of obs = 973
 Time variable: **year** Number of groups = 80

Moment conditions: linear = 64 Obs per group: min = 2
 nonlinear = 0 avg = 12.1625
 total = 64 max = 13

(Std. err. adjusted for 80 clusters in **mun_id**)

l_rpc_rent_mef	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_rent_mef						
L1.	.5687951	.053702	10.59	0.000	.4635411	.674049
L2.	.0632156	.0749742	0.84	0.399	-.0837312	.2101623
elec_t						
--.	-.0435537	.0918659	-0.47	0.635	-.2236076	.1365002
L1.	-.2129036	.1220896	-1.74	0.081	-.4521948	.0263876
Age	-.007168	.0088457	-0.81	0.418	-.0245052	.0101692
sex						
Male	.1737717	.2296951	0.76	0.449	-.2764224	.6239657
k_12centers	-.0018151	.0015385	-1.18	0.238	-.0048305	.0012004
gdp	2.90e-08	2.77e-08	1.05	0.295	-2.53e-08	8.32e-08
interest_rate	-.0981559	.0454744	-2.16	0.031	-.1872841	-.0090276

debt	-.0172746	.0113996	-1.52	0.130	-.0396173	.0050682
deficit	-8.57e-08	1.70e-07	-0.50	0.614	-4.19e-07	2.48e-07
party_type						
National	-.1781564	.7572271	-0.24	0.814	-1.662294	1.305982
Provincial	4.106657	6.920137	0.59	0.553	-9.456561	17.66988
win_margin	.0043687	.0133777	0.33	0.744	-.021851	.0305885
abstentionism	-.0268844	.0261609	-1.03	0.304	-.0781589	.02439
pop_share014	.1160248	.0285751	4.06	0.000	.0600186	.1720311
pop_share65plus	.0541348	.085396	0.63	0.526	-.1132383	.2215078
_cons	2.36928	2.187544	1.08	0.279	-1.918226	6.656787

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.1_rpc_rent_mef L2.L2.1_rpc_rent_mef L3.L2.1_rpc_rent_mef
 L4.L2.1_rpc_rent_mef L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex
 L4.2.sex L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp
 L2.gdp L3.gdp L4.gdp L2.interest_rate L2.debt L3.debt L4.debt L1.deficit
 L2.deficit L3.deficit L4.deficit L1.2bn.party_type L2.2bn.party_type
 L3.2bn.party_type L4.2bn.party_type L1.3.party_type L2.3.party_type
 L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin L3.win_margin
 L4.win_margin L1.abstentionism L2.abstentionism L3.abstentionism
 L4.abstentionism L1.pop_share014 L2.pop_share014 L3.pop_share014
 L4.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus
 L4.pop_share65plus

2, model(level):

D.L.1_rpc_rent_mef D.L2.1_rpc_rent_mef D.elec_t D.L.elec_t D.Age D.2.sex
 D.k_12centers D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(48) = 41.5484
 Prob > chi2 = 0.7329

2-step moment functions, 3-step weighting matrix chi2(48) = 45.9858
 Prob > chi2 = 0.5557

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -5.7155 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = 0.6960 Prob > |z| = 0.4865

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .1538654

Step 2 f(b) = .09073419

Fitting reduced model 2:

Step 1 f(b) = 6.986e-21

Group variable: mun_id

Number of obs = 886

Time variable: year

Number of groups = 76

Moment conditions: linear = 24 Obs per group: min = 1
 nonlinear = 0 avg = 11.65789
 total = 24 max = 14

(Std. err. adjusted for 76 clusters in mun_id)

l_rpc_publicity	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_publicity						
L1.	.3716146	.0890168	4.17	0.000	.1971449	.5460842
elec_t	.0411162	.1021165	0.40	0.687	-.1590286	.2412609
Age	-.0261369	.0219582	-1.19	0.234	-.0691742	.0169004
sex						
Male	-.3521091	.4191209	-0.84	0.401	-1.173571	.4693527
k_12centers	-.0009077	.003783	-0.24	0.810	-.0083222	.0065068
gdp	-4.25e-09	3.13e-08	-0.14	0.892	-6.56e-08	5.71e-08
interest_rate	.0100567	.0453633	0.22	0.825	-.0788538	.0989672
debt	-.0301727	.0166427	-1.81	0.070	-.0627918	.0024465
deficit	-1.74e-08	2.25e-07	-0.08	0.938	-4.59e-07	4.24e-07
party_type						
National	-2.041389	2.055746	-0.99	0.321	-6.070578	1.9878
Provincial	3.069601	14.91629	0.21	0.837	-26.16579	32.305
win_margin	.0176504	.0260254	0.68	0.498	-.0333584	.0686593
abstentionism	.0025938	.0335966	0.08	0.938	-.0632543	.068442
pop_share014	.0493534	.0689994	0.72	0.474	-.085883	.1845898
pop_share65plus	.4481251	.2439087	1.84	0.066	-.0299272	.9261773
_cons	3.075013	5.952433	0.52	0.605	-8.591541	14.74157

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
```

L1.L1.1_rpc_publicity L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
L1.abstentionism L1.pop_share014 L1.pop_share65plus

```
2, model(level):
```

D.L.1_rpc_publicity D.elec_t D.Age D.2.sex D.k_12centers D.gdp
D.interest_rate D.debt D.deficit

```
3, model(level):
```

cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

[illegible][illegible]

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: $z = -5.5851$ Prob $> |z| = 0.0000$

H0: no autocorrelation of order 2: $z =$ **0.7928** Prob $> |z| =$ **0.4279**

Generalized method of moments estimation

Fitting full model:

Step 1 $f(b) = .33408587$

Step 2 $f(b) = .23676798$

Fitting reduced model 2:

Step 1 $f(b) = .13253752$

Group variable: **mun id**

Number of obs = 886

Time variable: **year** Number of groups = **76**

Number of groups = **76**

Moment conditions:	linear =	38	Obs per group:	min =	1
	nonlinear =	0		avg =	11.65789
	total =	38		max =	14

```
Obs per group:    min =      1
                  avg = 11.65789
                  max =     14
```


(Std. err. adjusted for 76 clusters in **mun_id**)

l_rpc_publicity	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_publicity						
L1.	.3698905	.0844982	4.38	0.000	.204277	.5355039
elec_t	.0627878	.1005482	0.62	0.532	-.134283	.2598587
Age	-.0163322	.0162964	-1.00	0.316	-.0482726	.0156082
sex						
Male	-.0247512	.3502253	-0.07	0.944	-.7111801	.6616777
k_12centers	-.0018609	.0020434	-0.91	0.362	-.005866	.0021442
gdp	3.12e-09	2.81e-08	0.11	0.911	-5.19e-08	5.81e-08
interest_rate	-.0138584	.0467247	-0.30	0.767	-.1054372	.0777204
debt	-.0246387	.0104959	-2.35	0.019	-.0452102	-.0040672
deficit	-9.65e-08	1.67e-07	-0.58	0.563	-4.24e-07	2.31e-07
party_type						
National	-1.567929	1.5968	-0.98	0.326	-4.697599	1.561741
Provincial	5.331333	10.8623	0.49	0.624	-15.95838	26.62104
win_margin	.0247381	.018146	1.36	0.173	-.0108273	.0603036
abstentionism	-.0214934	.0273567	-0.79	0.432	-.0751115	.0321246
pop_share014	.0821903	.0481786	1.71	0.088	-.0122381	.1766187
pop_share65plus	.2980621	.1494292	1.99	0.046	.0051862	.590938
_cons	3.328659	3.896965	0.85	0.393	-4.309251	10.96657

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L1_rpc_publicity L2.L1_rpc_publicity L1.Age L2.Age L1.2.sex L2.2.sex
 L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
 L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
 L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
 L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
 L2.pop_share014 L1.pop_share65plus L2.pop_share65plus

2, model(level):

D.L1_rpc_publicity D.elec_t D.Age D.2.sex D.k_12centers D.gdp
 D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(24) = **17.9944**
 Prob > chi2 = **0.8033**

2-step moment functions, 3-step weighting matrix chi2(24) = **21.1028**
 Prob > chi2 = **0.6327**

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-5.8706** Prob > |z| = **0.0000**H0: no autocorrelation of order 2: z = **1.2002** Prob > |z| = **0.2301**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.54483222**Step 2 f(b) = **.3942304**

Fitting reduced model 2:

Step 1 f(b) = **.30516858**

Group variable: **mun_id** Number of obs = **886**
 Time variable: **year** Number of groups = **76**

Moment conditions: linear = **52** Obs per group: min = **1**
 nonlinear = **0** avg = **11.65789**
 total = **52** max = **14**

(Std. err. adjusted for 76 clusters in mun id)

l_rpc_publicity	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_publicity l1.	.3265	.0629671	5.19	0.000	.2030868	.4499133
elec_t	.047304	.0987371	0.48	0.632	-.1462172	.2408252
Age	-.0236912	.0126407	-1.87	0.061	-.0484665	.0010842
sex						
Male	-.0440061	.3553418	-0.12	0.901	-.7404631	.652451
k_12centers	-.0038532	.0019594	-1.97	0.049	-.0076935	-.0000129
gdp	3.68e-08	2.69e-08	1.37	0.171	-1.59e-08	8.95e-08
interest_rate	-.0676412	.0437853	-1.54	0.122	-.1534588	.0181763
debt	-.0245721	.0079207	-3.10	0.002	-.0400963	-.0090479
deficit	-9.79e-08	1.39e-07	-0.70	0.481	-3.70e-07	1.74e-07
party_type						
National	-4.155508	1.952157	-2.13	0.033	-7.981665	-.3293512
Provincial	2.001962	9.988466	0.20	0.841	-17.57507	21.57899
win_margin	.0108015	.0184064	0.59	0.557	-.0252743	.0468773
abstentionism	-.0048459	.027672	-0.18	0.861	-.0590821	.0493903
pop_share014	.0799317	.0397742	2.01	0.044	.0019757	.1578876
pop_share65plus	.0397702	.0946469	0.42	0.674	-.1457344	.2252748
_cons	7.048133	3.184395	2.21	0.027	.8068341	13.28943

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
```

L1.L1_rpc_publicity L2.L1_rpc_publicity L3.L1_rpc_publicity L1.Age
L2.Age L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
L3.k_12centers L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate
L3.interest_rate L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit
L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L1.3.party_type
L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
L1.abstentionism L2.abstentionism L3.abstentionism L1.pop_share014
L2.pop_share014 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus
L3.pop_share65plus

```
2, model(level):
```

D.L.1_rpc_publicity D.elec_t D.Age D.2.sex D.k_12centers D.gdp
D.interest_rate D.debt D.deficit

```
3, model(level):
```

cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

[illegible][illegible]

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: $z = -5.7690$ Prob $> |z| = 0.0000$

H0: no autocorrelation of order 2:	z =	1.0677	Prob > z =	0.2857
------------------------------------	-----	---------------	--------------	---------------

Generalized method of moments estimation

Fitting full model:

Step 1 $f(b) = .68223417$

Step 2 $f(b) = .50339014$

Fitting reduced model 2:

Step 1 $f(b) = .42277969$

Group variable: **mun id**

Number of obs = 886

Time variable: **year**

Number of groups = 76

Moment conditions:	linear =	63	Obs per group:	min =	1
	nonlinear =	0		avg =	11.65789
	total =	63		max =	14

(Std. err. adjusted for 76 clusters in mun_id)

l_rpc_publicity	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_publicity						
L1.	.3481989	.0617802	5.64	0.000	.2271119	.469286
elec_t	.0593075	.0959334	0.62	0.536	-.1287186	.2473335
Age	-.0227469	.013063	-1.74	0.082	-.04835	.0028561
sex						
Male	.0394616	.3496762	0.11	0.910	-.6458911	.7248143
k_12centers	-.0045867	.0018662	-2.46	0.014	-.0082444	-.0009291
gdp	3.97e-08	2.62e-08	1.52	0.129	-1.16e-08	9.11e-08
interest_rate	-.073101	.043552	-1.68	0.093	-.1584613	.0122593
debt	-.0247419	.0074657	-3.31	0.001	-.0393744	-.0101094
deficit	-7.42e-08	1.40e-07	-0.53	0.595	-3.48e-07	1.99e-07
party_type						
National	-3.532855	1.598399	-2.21	0.027	-6.665658	-.4000509
Provincial	5.492481	8.410582	0.65	0.514	-10.99196	21.97692
win_margin	.0017165	.0184653	0.09	0.926	-.0344749	.0379079
abstentionism	.0071159	.028121	0.25	0.800	-.0480002	.0622321
pop_share014	.0720078	.0364909	1.97	0.048	.0004869	.1435287
pop_share65plus	.0348743	.0792474	0.44	0.660	-.1204477	.1901963
_cons	5.858099	3.162519	1.85	0.064	-.3403248	12.05652

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
```

L1.L.1_rpc_publicity L2.L.1_rpc_publicity L3.L.1_rpc_publicity
L4.L.1_rpc_publicity L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex
L4.2.sex L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp
L2.gdp L3.gdp L4.gdp L2.interest_rate L1.debt L2.debt L3.debt L4.debt
L1.deficit L2.deficit L3.deficit L4.deficit L1.2bn.party_type
L2.2bn.party_type L3.2bn.party_type L4.2bn.party_type L1.3.party_type
L2.3.party_type L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin
L3.win_margin L4.win_margin L1.abstentionism L2.abstentionism
L3.abstentionism L4.abstentionism L1.pop_share014 L2.pop_share014
L3.pop_share014 L4.pop_share014 L1.pop_share65plus L2.pop_share65plus
L3.pop_share65plus L4.pop_share65plus

```
2, model(level):
```

D.L.1_rpc_publicity D.elec_t D.Age D.2.sex D.k_12centers D.gdp
D.interest_rate D.debt D.deficit

```
3, model(levél):
```

cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

[illegible][illegible]

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: $z = -5.8933$ Prob $> |z| = 0.0000$

H0: no autocorrelation of order 2: $z =$ **1.1955** Prob $> |z| =$ **0.2319**

Generalized method of moments estimation

Fitting full model:

Step 1 $f(b) = .16912828$

```
Step 2      f (b) = .09129058
```

Fitting reduced model 2:

Step 1 f(b) = **1.357e-19**Group variable: **mun_id**Number of obs = **789**Time variable: **year**Number of groups = **73**

Moment conditions: linear = **25**
 nonlinear = **0**
 total = **25**

Obs per group: min = **1**
 avg = **10.80822**
 max = **13**

(Std. err. adjusted for **73** clusters in **mun_id**)

l_rpc_publicity	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_publicity						
L1.	.4321256	.0852745	5.07	0.000	.2649906	.5992606
L2.	.0783604	.0767101	1.02	0.307	-.0719888	.2287095
elec_t	.0324771	.0992823	0.33	0.744	-.1621127	.2270668
Age	.0007759	.0193769	0.04	0.968	-.0372021	.0387539
sex						
Male	-.1952579	.3242353	-0.60	0.547	-.8307475	.4402317
k_12centers	.0021496	.0039449	0.54	0.586	-.0055823	.0098814
gdp	-5.56e-08	4.66e-08	-1.19	0.232	-1.47e-07	3.57e-08
interest_rate	.0252044	.0454105	0.56	0.579	-.0637985	.1142074
debt	-.0148766	.0161516	-0.92	0.357	-.0465332	.01678
deficit	-1.52e-08	1.97e-07	-0.08	0.938	-4.00e-07	3.70e-07
party_type						
National	-.6569003	.8389115	-0.78	0.434	-2.301137	.9873361
Provincial	-3.055496	14.64692	-0.21	0.835	-31.76293	25.65194
win_margin	.0140228	.0149927	0.94	0.350	-.0153624	.0434081
abstentionism	-.0092775	.0264691	-0.35	0.726	-.061156	.0426011
pop_share014	.0497392	.0554488	0.90	0.370	-.0589385	.1584169
pop_share65plus	.5207457	.1964382	2.65	0.008	.135734	.9057575
_cons	.175432	3.79694	0.05	0.963	-7.266434	7.617298

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.l_rpc_publicity L1.Age L1.2.sex L1.k_12centers L1.gdp
 L1.interest_rate L1.debt L1.deficit L1.2bn.party_type L1.3.party_type
 L1.win_margin L1.abstentionism L1.pop_share014 L1.pop_share65plus

2, model(level):

D.L.l_rpc_publicity D.L2.l_rpc_publicity D.elec_t D.Age D.2.sex
 D.k_12centers D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(10) = **6.6642**
 Prob > chi2 = **0.7567**

2-step moment functions, 3-step weighting matrix chi2(10) = **6.8767**
 Prob > chi2 = **0.7370**

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-5.7900** Prob > |z| = **0.0000**H0: no autocorrelation of order 2: z = **-0.0105** Prob > |z| = **0.9916**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.36039418**Step 2 f(b) = **.29711681**

Fitting reduced model 2:
Step 1 f(b) = **.10724747**

Group variable: **mun_id** Number of obs = **789**
Time variable: **year** Number of groups = **73**

Moment conditions: linear = **39** Obs per group: min = **1**
nonlinear = **0** avg = **10.80822**
total = **39** max = **13**

(Std. err. adjusted for **73** clusters in **mun_id**)

l_rpc_publicity	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_publicity						
L1.	.3965569	.078954	5.02	0.000	.2418099	.551304
L2.	.0646211	.0952706	0.68	0.498	-.1221058	.2513481
elec_t	-.0676767	.097576	-0.69	0.488	-.2589221	.1235687
Age	.0004648	.0142761	0.03	0.974	-.0275157	.0284454
sex						
Male	-.2889254	.4436169	-0.65	0.515	-1.158399	.5805478
k_12centers	-.0000241	.0022106	-0.01	0.991	-.0043569	.0043087
gdp	1.18e-08	3.08e-08	0.38	0.701	-4.85e-08	7.21e-08
interest_rate	-.032933	.0377981	-0.87	0.384	-.1070159	.0411499
debt	-.0349462	.0132242	-2.64	0.008	-.0608653	-.0090272
deficit	1.10e-07	1.66e-07	0.66	0.507	-2.15e-07	4.34e-07
party_type						
National	-1.363122	.7492658	-1.82	0.069	-2.831656	.105412
Provincial	3.49657	11.81533	0.30	0.767	-19.66104	26.65418
win_margin	.010112	.013067	0.77	0.439	-.0154988	.0357229
abstentionism	-.0075778	.0239495	-0.32	0.752	-.0545179	.0393623
pop_share014	.0657609	.0440786	1.49	0.136	-.0206316	.1521533
pop_share65plus	.3523786	.1456515	2.42	0.016	.0669069	.6378502
_cons	1.966635	3.862499	0.51	0.611	-5.603723	9.536993

Instruments corresponding to the linear moment conditions:

1, model(diff):
L1.L2.1_rpc_publicity L2.L2.1_rpc_publicity L1.Age L2.Age L1.2.sex L2.2.sex
L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
2, model(level):
D.L.1_rpc_publicity D.L2.1_rpc_publicity D.elec_t D.Age D.2.sex
D.k_12centers D.gdp D.interest_rate D.debt D.deficit
3, model(level):
_cons

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(24) = **21.6895**
Prob > chi2 = **0.5978**

2-step moment functions, 3-step weighting matrix chi2(24) = **23.4821**
Prob > chi2 = **0.4915**

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = **-5.7557** Prob > |z| = **0.0000**
H0: no autocorrelation of order 2: z = **0.4827** Prob > |z| = **0.6293**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .67419955

Step 2 f(b) = .55385014

Fitting reduced model 2:

Step 1 f(b) = .3266311

Group variable: **mun_id**

Number of obs = 789

Time variable: **year**

Number of groups = 73

Moment conditions: linear = 53

Obs per group: min = 1

nonlinear = 0

avg = 10.80822

total = 53

max = 13

(Std. err. adjusted for 73 clusters in **mun_id**)

l_rpc_publicity	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_publicity						
L1.	.4124158	.0775286	5.32	0.000	.2604625	.5643691
L2.	.1242691	.0904784	1.37	0.170	-.0530653	.3016035
elec_t	.0405427	.1096546	0.37	0.712	-.1743765	.2554618
Age	-.0249585	.0145689	-1.71	0.087	-.0535129	.003596
sex						
Male	-.3775316	.3642132	-1.04	0.300	-1.091376	.3363132
k_12centers	-.0032691	.0025532	-1.28	0.200	-.0082733	.001735
gdp	4.36e-08	3.22e-08	1.35	0.176	-1.95e-08	1.07e-07
interest_rate	-.0393599	.0462241	-0.85	0.394	-.1299574	.0512376
debt	-.0293951	.0145219	-2.02	0.043	-.0578575	-.0009327
deficit	-1.12e-07	1.56e-07	-0.72	0.471	-4.18e-07	1.93e-07
party_type						
National	-1.924292	.7478532	-2.57	0.010	-3.390057	-.4585263
Provincial	6.171188	9.667825	0.64	0.523	-12.7774	25.11978
win_margin	-.0017489	.0152586	-0.11	0.909	-.0316551	.0281574
abstentionism	-.0117911	.0306564	-0.38	0.701	-.0718766	.0482944
pop_share014	.0961186	.0451305	2.13	0.033	.0076646	.1845727
pop_share65plus	.0726947	.1212328	0.60	0.549	-.1649172	.3103067
_cons	4.164488	3.967554	1.05	0.294	-3.611775	11.94075

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.1_rpc_publicity L2.L2.1_rpc_publicity L3.L2.1_rpc_publicity L1.Age
 L2.Age L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
 L3.k_12centers L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate
 L3.interest_rate L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit
 L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L1.3.party_type
 L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
 L1.abstentionism L2.abstentionism L3.abstentionism L1.pop_share014
 L2.pop_share014 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus
 L3.pop_share65plus

2, model(level):

D.L.1_rpc_publicity D.L2.1_rpc_publicity D.elec_t D.Age D.2.sex
 D.k_12centers D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(38) = 40.4311
 Prob > chi2 = 0.3634

2-step moment functions, 3-step weighting matrix chi2(38) = 50.4299
 Prob > chi2 = 0.0855

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-5.2613** Prob > |z| = **0.0000**
H0: no autocorrelation of order 2: z = **-0.2938** Prob > |z| = **0.7689**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.76714781**
Step 2 f(b) = **.6390378**

Fitting reduced model 2:

Step 1 f(b) = **.38748637**

Group variable: **mun_id** Number of obs = **789**
Time variable: **year** Number of groups = **73**

Moment conditions: linear = **63** Obs per group: min = **1**
nonlinear = **0** avg = **10.80822**
total = **63** max = **13**

(Std. err. adjusted for **73** clusters in **mun_id**)

l_rpc_publicity	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_publicity						
L1.	.4328074	.068943	6.28	0.000	.2976816	.5679332
L2.	.1297671	.0856404	1.52	0.130	-.038085	.2976193
elec_t	.0016682	.1058825	0.02	0.987	-.2058576	.209194
Age	-.0287993	.0160928	-1.79	0.074	-.0603406	.0027421
sex						
Male	-.3156774	.317497	-0.99	0.320	-.93796	.3066052
k_12centers	-.0044059	.0027362	-1.61	0.107	-.0097688	.0009569
gdp	5.60e-08	3.25e-08	1.72	0.085	-7.78e-09	1.20e-07
interest_rate	-.0516064	.0425459	-1.21	0.225	-.1349948	.031782
debt	-.0270657	.0145953	-1.85	0.064	-.055672	.0015406
deficit	-7.96e-08	1.53e-07	-0.52	0.604	-3.80e-07	2.21e-07
party_type						
National	-2.184454	.8177344	-2.67	0.008	-3.787184	-.5817241
Provincial	6.975743	8.994796	0.78	0.438	-10.65373	24.60522
win_margin	-.0078564	.0143519	-0.55	0.584	-.0359856	.0202727
abstentionism	.0047363	.0302125	0.16	0.875	-.0544792	.0639517
pop_share014	.0878552	.043593	2.02	0.044	.0024145	.1732959
pop_share65plus	.0044242	.1172702	0.04	0.970	-.2254211	.2342696
_cons	3.903118	4.172116	0.94	0.350	-4.274078	12.08031

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.1_rpc_publicity L2.L2.1_rpc_publicity L3.L2.1_rpc_publicity
L4.L2.1_rpc_publicity L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex
L3.2.sex L4.2.sex L1.k_12centers L2.k_12centers L3.k_12centers
L4.k_12centers L1.gdp L2.gdp L3.gdp L4.gdp L2.interest_rate L2.debt L3.debt
L4.debt L1.deficit L2.deficit L3.deficit L4.deficit L1.2bn.party_type
L2.2bn.party_type L3.2bn.party_type L4.2bn.party_type L1.3.party_type
L2.3.party_type L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin
L3.win_margin L4.win_margin L1.abstentionism L2.abstentionism
L3.abstentionism L4.abstentionism L1.pop_share014 L2.pop_share014
L3.pop_share014 L4.pop_share014 L1.pop_share65plus L2.pop_share65plus
L3.pop_share65plus L4.pop_share65plus

2, model(level):

D.L.1_rpc_publicity D.L2.1_rpc_publicity D.elec_t D.Age D.2.sex
D.k_12centers D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(48) = 46.6498
 Prob > chi2 = 0.5282

2-step moment functions, 3-step weighting matrix chi2(48) = 55.9634
 Prob > chi2 = 0.2008

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -5.4857 Prob > |z| = 0.0000
 H0: no autocorrelation of order 2: z = -0.1471 Prob > |z| = 0.8831

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .13581334
 Step 2 f(b) = .08357184

Fitting reduced model 2:

Step 1 f(b) = 1.358e-22

Group variable: **mun_id** Number of obs = 886
 Time variable: **year** Number of groups = 76

Moment conditions: linear = 25 Obs per group: min = 1
 nonlinear = 0 avg = 11.65789
 total = 25 max = 14

(Std. err. adjusted for 76 clusters in **mun_id**)

l_rpc_publicity	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_publicity						
L1.	.375521	.0835677	4.49	0.000	.2117314	.5393106
elec_t						
--.	-.3362833	.2452005	-1.37	0.170	-.8168675	.1443009
L1.	-.4179404	.2443734	-1.71	0.087	-.8969034	.0610227
Age	-.0225517	.0201685	-1.12	0.263	-.0620813	.0169778
sex						
Male	-.4145982	.41418	-1.00	0.317	-1.226376	.3971796
k_12centers	-.0002963	.0039767	-0.07	0.941	-.0080906	.0074979
gdp	9.99e-09	2.62e-08	0.38	0.703	-4.14e-08	6.14e-08
interest_rate	-.0799106	.0569132	-1.40	0.160	-.1914584	.0316372
debt	-.0454404	.0223962	-2.03	0.042	-.089336	-.0015447
deficit	3.49e-07	3.65e-07	0.96	0.339	-3.66e-07	1.07e-06
party_type						
National	-1.726861	1.936462	-0.89	0.373	-5.522258	2.068535
Provincial	2.481271	14.92804	0.17	0.868	-26.77714	31.73969
win_margin	.0180057	.0235298	0.77	0.444	-.0281118	.0641232
abstentionism	.001979	.0311125	0.06	0.949	-.0590003	.0629584
pop_share014	.0221327	.0718085	0.31	0.758	-.1186093	.1628747
pop_share65plus	.467608	.2244677	2.08	0.037	.0276594	.9075566
_cons	4.812027	6.047932	0.80	0.426	-7.041702	16.66576

Instruments corresponding to the linear moment conditions:

- 1, model(diff):
 - L1.L1_rpc_publicity L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
 - L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
 - L1.abstentionism L1.pop_share014 L1.pop_share65plus
- 2, model(level):
 - D.L1_rpc_publicity D.elec_t D.L.elec_t D.Age D.2.sex D.k_12centers D.gdp
 - D.interest_rate D.debt D.deficit
- 3, model(level):
 - _cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(10) = 6.3515
 Prob > chi2 = 0.7849

2-step moment functions, 3-step weighting matrix chi2(10) = 7.3153
 Prob > chi2 = 0.6954

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -5.6829 Prob > |z| = 0.0000
 H0: no autocorrelation of order 2: z = 0.8607 Prob > |z| = 0.3894

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .29176371
 Step 2 f(b) = .17829275

Fitting reduced model 2:

Step 1 f(b) = .08444531

Group variable: **mun_id** Number of obs = 886
 Time variable: **year** Number of groups = 76

Moment conditions: linear = 39 Obs per group: min = 1
 nonlinear = 0 avg = 11.65789
 total = 39 max = 14

(Std. err. adjusted for 76 clusters in **mun_id**)

l_rpc_publicity	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_publicity						
L1.	.3798866	.0726656	5.23	0.000	.2374646	.5223086
elec_t						
--.	-.2113902	.153106	-1.38	0.167	-.5114725	.0886921
L1.	-.3197305	.1364107	-2.34	0.019	-.5870906	-.0523705
Age	-.0133415	.015159	-0.88	0.379	-.0430525	.0163696
sex						
Male	-.0623889	.294868	-0.21	0.832	-.6403195	.5155417
k_12centers	-.0015308	.0021958	-0.70	0.486	-.0058346	.002773
gdp	1.25e-08	2.46e-08	0.51	0.612	-3.58e-08	6.08e-08
interest_rate	-.0687433	.0466652	-1.47	0.141	-.1602055	.0227188
debt	-.0308054	.0108971	-2.83	0.005	-.0521633	-.0094475
deficit	1.12e-07	1.92e-07	0.58	0.561	-2.65e-07	4.89e-07
party_type						
National	-1.049932	1.468082	-0.72	0.475	-3.92732	1.827455
Provincial	6.517589	10.90275	0.60	0.550	-14.85142	27.88659
win_margin	.014942	.0142404	1.05	0.294	-.0129686	.0428527
abstentionism	-.0089429	.0233152	-0.38	0.701	-.0546398	.036754
pop_share014	.0768582	.043357	1.77	0.076	-.00812	.1618363
pop_share65plus	.3479599	.1516246	2.29	0.022	.0507812	.6451386
_cons	2.472281	3.779998	0.65	0.513	-4.936379	9.880941

Instruments corresponding to the linear moment conditions:

1, model(diff):

 L1.L1_rpc_publicity L2.L1_rpc_publicity L1.Age L2.Age L1.2.sex L2.2.sex
 L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
 L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
 L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
 L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
 L2.pop_share014 L1.pop_share65plus L2.pop_share65plus

2, model(level):

 D.L1_rpc_publicity D.elec_t D.L.elec_t D.Age D.2.sex D.k_12centers D.gdp
 D.interest_rate D.debt D.deficit

3, model(level):

 _cons

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(24) = 13.5502
Prob > chi2 = 0.9562

2-step moment functions, 3-step weighting matrix chi2(24) = 18.0660
Prob > chi2 = 0.7998

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -6.0060 Prob > |z| = 0.0000
H0: no autocorrelation of order 2: z = 1.2705 Prob > |z| = 0.2039

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .47901587
Step 2 f(b) = .26220012

Fitting reduced model 2:

Step 1 f(b) = .20532633

Group variable: **mun_id** Number of obs = 886
Time variable: **year** Number of groups = 76

Moment conditions: linear = 53 Obs per group: min = 1
 nonlinear = 0 avg = 11.65789
 total = 53 max = 14

(Std. err. adjusted for 76 clusters in **mun_id**)

l_rpc_publicity	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_publicity						
L1.	.3216594	.0542226	5.93	0.000	.215385	.4279337
elec_t						
--.	-.2388708	.117217	-2.04	0.042	-.468612	-.0091297
L1.	-.3718588	.1056584	-3.52	0.000	-.5789454	-.1647722
Age	-.0229204	.0116001	-1.98	0.048	-.0456562	-.0001846
sex						
Male	-.1236068	.2544919	-0.49	0.627	-.6224017	.3751881
k_12centers	-.0023412	.0018864	-1.24	0.215	-.0060386	.0013561
gdp	2.58e-08	2.18e-08	1.18	0.237	-1.69e-08	6.85e-08
interest_rate	-.1196539	.0369431	-3.24	0.001	-.1920611	-.0472467
debt	-.0344298	.0075805	-4.54	0.000	-.0492873	-.0195722
deficit	1.77e-07	1.38e-07	1.29	0.199	-9.27e-08	4.46e-07
party_type						
National	-2.937917	1.585441	-1.85	0.064	-6.045325	.1694909
Provincial	4.038355	10.33843	0.39	0.696	-16.22459	24.3013
win_margin	.0054498	.0134021	0.41	0.684	-.0208179	.0317174
abstentionism	.0003565	.0191436	0.02	0.985	-.0371644	.0378773
pop_share014	.0471115	.0388713	1.21	0.226	-.0290748	.1232979
pop_share65plus	.2121455	.0963437	2.20	0.028	.0233152	.4009758
_cons	6.657279	2.801977	2.38	0.018	1.165504	12.14905

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L1_rpc_publicity L2.L1_rpc_publicity L3.L1_rpc_publicity L1.Age
L2.Age L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
L3.k_12centers L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate
L3.interest_rate L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit
L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L1.3.party_type
L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
L1.abstentionism L2.abstentionism L3.abstentionism L1.pop_share014
L2.pop_share014 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus
L3.pop_share65plus

```

2, model(level):
  D.L1_rpc_publicity D.elec_t D.L.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(38)      =    19.9272
                                                         Prob > chi2    =    0.9931

```

```

2-step moment functions, 3-step weighting matrix      chi2(38)      =    23.9982
                                                         Prob > chi2    =    0.9626

```

Arellano-Bond test for autocorrelation of the first-differenced residuals

```

H0: no autocorrelation of order 1:      z =    -5.9406   Prob > |z|    =    0.0000
H0: no autocorrelation of order 2:      z =     0.9249   Prob > |z|    =    0.3550

```

Generalized method of moments estimation

Fitting full model:

```

Step 1      f(b) =   .66065899
Step 2      f(b) =   .44618013

```

Fitting reduced model 2:

```

Step 1      f(b) =   .38451231

```

```

Group variable: mun_id      Number of obs      =    886
Time variable: year        Number of groups   =    76

```

```

Moment conditions:      linear =    64      Obs per group:   min =    1
                       nonlinear =    0      avg =   11.65789
                       total =    64      max =    14

```

(Std. err. adjusted for 76 clusters in mun_id)

	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_publicity						
l_rpc_publicity						
L1.	.3448717	.0592339	5.82	0.000	.2287754	.460968
elec_t						
--.	-.0796848	.1098278	-0.73	0.468	-.2949434	.1355738
L1.	-.1971804	.0856778	-2.30	0.021	-.3651059	-.0292549
Age	-.0213348	.0126124	-1.69	0.091	-.0460545	.003385
sex						
Male	.0201478	.2775447	0.07	0.942	-.5238298	.5641254
k_12centers	-.0034518	.0020984	-1.65	0.100	-.0075646	.0006609
gdp	3.51e-08	2.21e-08	1.59	0.112	-8.21e-09	7.84e-08
interest_rate	-.105403	.0384144	-2.74	0.006	-.1806938	-.0301123
debt	-.0307503	.0071786	-4.28	0.000	-.0448201	-.0166805
deficit	6.89e-08	1.33e-07	0.52	0.605	-1.92e-07	3.30e-07
party_type						
National	-2.578762	1.640292	-1.57	0.116	-5.793674	.6361505
Provincial	5.979394	8.202547	0.73	0.466	-10.0973	22.05609
win_margin	.0016307	.0157963	0.10	0.918	-.0293294	.0325909
abstentionism	.0085977	.0243127	0.35	0.724	-.0390544	.0562497
pop_share014	.0584191	.0373529	1.56	0.118	-.0147913	.1316294
pop_share65plus	.1345527	.0909176	1.48	0.139	-.0436425	.3127479
_cons	5.187825	2.94851	1.76	0.078	-.5911491	10.9668

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L1_rpc_publicity L2.L1_rpc_publicity L3.L1_rpc_publicity
  L4.L1_rpc_publicity L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex
  L4.2.sex L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp

```

```

L2.gdp L3.gdp L4.gdp L2.interest_rate L1.debt L2.debt L3.debt L4.debt
L1.deficit L2.deficit L3.deficit L4.deficit L1.2bn.party_type
L2.2bn.party_type L3.2bn.party_type L4.2bn.party_type L1.3.party_type
L2.3.party_type L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin
L3.win_margin L4.win_margin L1.abstentionism L2.abstentionism
L3.abstentionism L4.abstentionism L1.pop_share014 L2.pop_share014
L3.pop_share014 L4.pop_share014 L1.pop_share65plus L2.pop_share65plus
L3.pop_share65plus L4.pop_share65plus
2, model(level):
  D.L1_rpc_publicity D.elec_t D.L.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(49)    =    33.9097
                                                         Prob > chi2 =    0.9503

2-step moment functions, 3-step weighting matrix      chi2(49)    =    46.3522
                                                         Prob > chi2 =    0.5811

```

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = -5.8924 Prob > |z| = 0.0000
H0: no autocorrelation of order 2: z = 1.1756 Prob > |z| = 0.2397

Generalized method of moments estimation

```

Fitting full model:
Step 1      f(b) =  .14143805
Step 2      f(b) =  .07203126

```

```

Group variable: mun_id      Number of obs      =    789
Time variable: year        Number of groups   =    73

Moment conditions:      linear =    26      Obs per group:   min =    1
                        nonlinear =    0      avg =   10.80822
                        total =    26      max =    13

```

(Std. err. adjusted for 73 clusters in mun_id)

l_rpc_publicity	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_publicity						
L1.	.4134307	.0799333	5.17	0.000	.2567643	.5700971
L2.	.0665994	.0744131	0.89	0.371	-.0792476	.2124463
elec_t						
--.	-.4194357	.1792566	-2.34	0.019	-.7707722	-.0680993
L1.	-.5378415	.1926188	-2.79	0.005	-.9153673	-.1603156
Age	-.0015588	.0188779	-0.08	0.934	-.0385588	.0354411
sex						
Male	-.2646135	.3124077	-0.85	0.397	-.8769214	.3476944
k_12centers	.0015061	.0035812	0.42	0.674	-.005513	.0085251
gdp	-3.89e-08	3.90e-08	-1.00	0.318	-1.15e-07	3.75e-08
interest_rate	-.0909	.0470822	-1.93	0.054	-.1831796	.0013795
debt	-.0312567	.0162852	-1.92	0.055	-.0631751	.0006617
deficit	4.12e-07	2.62e-07	1.57	0.116	-1.02e-07	9.27e-07
party_type						
National	-.5967056	.7776288	-0.77	0.443	-2.12083	.9274188
Provincial	-.8280005	13.77517	-0.06	0.952	-27.82683	26.17083
win_margin	.0132597	.0153226	0.87	0.387	-.0167719	.0432914
abstentionism	-.012923	.0262203	-0.49	0.622	-.0643138	.0384679
pop_share014	.0224334	.0509004	0.44	0.659	-.0773295	.1221964
pop_share65plus	.5180079	.1724962	3.00	0.003	.1799216	.8560942
_cons	3.388664	3.739127	0.91	0.365	-3.939892	10.71722

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.l_rpc_publicity L1.Age L1.2.sex L1.k_12centers L1.gdp
L1.interest_rate L1.debt L1.deficit L1.2bn.party_type L1.3.party_type
L1.win_margin L1.abstentionism L1.pop_share014 L1.pop_share65plus

2, model(level):

D.L.l_rpc_publicity D.L2.l_rpc_publicity D.elec_t D.L.elec_t D.Age D.2.sex
D.k_12centers D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(10) = 5.2583
Prob > chi2 = 0.8733

2-step moment functions, 3-step weighting matrix chi2(10) = 5.3703
Prob > chi2 = 0.8651

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -5.7566 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = -0.0247 Prob > |z| = 0.9803

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .29925649

Step 2 f(b) = .24229104

Fitting reduced model 2:

Step 1 f(b) = .08374475

Group variable: **mun_id**

Number of obs = 789

Time variable: **year**

Number of groups = 73

Moment conditions: linear = 40 Obs per group: min = 1
 nonlinear = 0 avg = 10.80822
 total = 40 max = 13

(Std. err. adjusted for 73 clusters in **mun_id**)

l_rpc_publicity	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_publicity						
L1.	.3786712	.0649823	5.83	0.000	.2513082	.5060342
L2.	.0515812	.0808814	0.64	0.524	-.1069435	.2101059
elec_t						
--.	-.3065965	.1380683	-2.22	0.026	-.5772053	-.0359876
L1.	-.3463811	.1514321	-2.29	0.022	-.6431825	-.0495796
Age	-.0032487	.0126297	-0.26	0.797	-.0280025	.0215051
sex						
Male	-.3267747	.3873325	-0.84	0.399	-1.085932	.432383
k_12centers	-.0008672	.0020337	-0.43	0.670	-.0048532	.0031189
gdp	-5.52e-09	2.82e-08	-0.20	0.845	-6.07e-08	4.97e-08
interest_rate	-.0921507	.0447453	-2.06	0.039	-.1798498	-.0044515
debt	-.0334549	.0126367	-2.65	0.008	-.0582224	-.0086875
deficit	2.88e-07	1.79e-07	1.61	0.106	-6.17e-08	6.38e-07
party_type						
National	-1.473187	.7297407	-2.02	0.044	-2.903452	-.0429214
Provincial	6.886151	12.06389	0.57	0.568	-16.75863	30.53093
win_margin	.0028535	.0125102	0.23	0.820	-.021666	.0273729
abstentionism	-.004001	.024056	-0.17	0.868	-.0511499	.0431479
pop_share014	.0401954	.0381721	1.05	0.292	-.0346206	.1150114
pop_share65plus	.362846	.128885	2.82	0.005	.110236	.6154559

_cons	3.964875	3.208693	1.24	0.217	-2.324048	10.2538
--------------	-----------------	-----------------	-------------	--------------	------------------	----------------

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L2.1_rpc_publicity L2.L2.1_rpc_publicity L1.Age L2.Age L1.2.sex L2.2.sex
  L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
  L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
  L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
  L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
  L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
2, model(level):
  D.L.1_rpc_publicity D.L2.1_rpc_publicity D.elec_t D.L.elec_t D.Age D.2.sex
  D.k_12centers D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(24) = **17.6872**
 Prob > chi2 = **0.8179**

2-step moment functions, 3-step weighting matrix chi2(24) = **20.3859**
 Prob > chi2 = **0.6746**

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-5.9718** Prob > |z| = **0.0000**
 H0: no autocorrelation of order 2: z = **0.6512** Prob > |z| = **0.5149**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.65315018**
 Step 2 f(b) = **.5439594**

Fitting reduced model 2:

Step 1 f(b) = **.32884395**

Group variable: **mun_id** Number of obs = **789**
 Time variable: **year** Number of groups = **73**

Moment conditions: linear = **54** Obs per group: min = **1**
 nonlinear = **0** avg = **10.80822**
 total = **54** max = **13**

(Std. err. adjusted for **73** clusters in **mun_id**)

l_rpc_publicity	Coefficient	WC-Robust std. err.	z	P> z 	[95% conf. interval]	
l_rpc_publicity						
L1.	.4049732	.0654438	6.19	0.000	.2767056	.5332408
L2.	.0853857	.0862649	0.99	0.322	-.0836905	.2544618
elec_t						
--.	-.0850124	.1289388	-0.66	0.510	-.3377278	.167703
L1.	-.218887	.1470619	-1.49	0.137	-.5071231	.0693491
Age	-.0251865	.012213	-2.06	0.039	-.0491236	-.0012495
sex						
Male	-.4152309	.3043031	-1.36	0.172	-1.011654	.1811923
k_12centers	-.0026804	.0024169	-1.11	0.267	-.0074175	.0020567
gdp	2.41e-08	3.69e-08	0.65	0.514	-4.83e-08	9.65e-08
interest_rate	-.0698782	.0470976	-1.48	0.138	-.1621878	.0224315
debt	-.0287644	.0150816	-1.91	0.056	-.0583237	.0007949
deficit	-5.17e-09	1.56e-07	-0.03	0.974	-3.11e-07	3.00e-07
party_type						
National	-1.954825	.782474	-2.50	0.012	-3.488445	-.4212037
Provincial	6.500407	9.535491	0.68	0.495	-12.18881	25.18963

win_margin	.0017824	.0145046	0.12	0.902	-.0266462	.0302109
abstentionism	-.0191178	.0302268	-0.63	0.527	-.0783613	.0401257
pop_share014	.0811685	.0443828	1.83	0.067	-.0058203	.1681572
pop_share65plus	.1399941	.1183322	1.18	0.237	-.0919328	.371921
_cons	5.572574	3.86005	1.44	0.149	-1.992985	13.13813

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.1_rpc_publicity L2.L2.1_rpc_publicity L3.L2.1_rpc_publicity L1.Age
 L2.Age L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
 L3.k_12centers L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate
 L3.interest_rate L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit
 L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L1.3.party_type
 L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
 L1.abstentionism L2.abstentionism L3.abstentionism L1.pop_share014
 L2.pop_share014 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus
 L3.pop_share65plus

2, model(level):

D.L.1_rpc_publicity D.L2.1_rpc_publicity D.elec_t D.L.elec_t D.Age D.2.sex
 D.k_12centers D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(38) = 39.7090
 Prob > chi2 = 0.3938

2-step moment functions, 3-step weighting matrix chi2(38) = 50.1122
 Prob > chi2 = 0.0903

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -5.5498 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = 0.1539 Prob > |z| = 0.8777

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .74793615

Step 2 f(b) = .62692992

Fitting reduced model 2:

Step 1 f(b) = .38609589

Group variable: mun_id Number of obs = 789
 Time variable: year Number of groups = 73

Moment conditions: linear = 64 Obs per group: min = 1
 nonlinear = 0 avg = 10.80822
 total = 64 max = 13

(Std. err. adjusted for 73 clusters in mun_id)

l_rpc_publicity	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_publicity						
L1.	.4266044	.0573281	7.44	0.000	.3142434	.5389655
L2.	.1038604	.079337	1.31	0.190	-.0516373	.259358
elec_t						
--.	-.0898478	.1206535	-0.74	0.456	-.3263242	.1466287
L1.	-.1891471	.116705	-1.62	0.105	-.4178848	.0395906
Age	-.0292522	.0131157	-2.23	0.026	-.0549585	-.0035458
sex						
Male	-.3552161	.2579989	-1.38	0.169	-.8608847	.1504525
k_12centers	-.0038221	.0025615	-1.49	0.136	-.0088426	.0011984
gdp	4.06e-08	3.43e-08	1.18	0.237	-2.67e-08	1.08e-07
interest_rate	-.0734275	.0421676	-1.74	0.082	-.1560744	.0092194

debt	-.0289986	.0137625	-2.11	0.035	-.0559726	-.0020245
deficit	2.48e-08	1.50e-07	0.17	0.869	-2.70e-07	3.19e-07
party_type						
National	-1.97115	.6999509	-2.82	0.005	-3.343028	-.5992713
Provincial	6.192166	8.914722	0.69	0.487	-11.28037	23.6647
win_margin	-.0030174	.0132914	-0.23	0.820	-.029068	.0230332
abstentionism	-.0044198	.0292943	-0.15	0.880	-.0618356	.0529959
pop_share014	.0723474	.0425172	1.70	0.089	-.0109848	.1556797
pop_share65plus	.0795856	.1114461	0.71	0.475	-.1388447	.298016
_cons	5.06978	3.832806	1.32	0.186	-2.442382	12.58194

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.1_rpc_publicity L2.L2.1_rpc_publicity L3.L2.1_rpc_publicity
L4.L2.1_rpc_publicity L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex
L3.2.sex L4.2.sex L1.k_12centers L2.k_12centers L3.k_12centers
L4.k_12centers L1.gdp L2.gdp L3.gdp L4.gdp L2.interest_rate L2.debt L3.debt
L4.debt L1.deficit L2.deficit L3.deficit L4.deficit L1.2bn.party_type
L2.2bn.party_type L3.2bn.party_type L4.2bn.party_type L1.3.party_type
L2.3.party_type L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin
L3.win_margin L4.win_margin L1.abstentionism L2.abstentionism
L3.abstentionism L4.abstentionism L1.pop_share014 L2.pop_share014
L3.pop_share014 L4.pop_share014 L1.pop_share65plus L2.pop_share65plus
L3.pop_share65plus L4.pop_share65plus

2, model(level):

D.L.1_rpc_publicity D.L2.1_rpc_publicity D.elec_t D.L.elec_t D.Age D.2.sex
D.k_12centers D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(48) = 45.7659
Prob > chi2 = 0.5649

2-step moment functions, 3-step weighting matrix chi2(48) = 59.9500
Prob > chi2 = 0.1155

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -5.6844 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = 0.0376 Prob > |z| = 0.9700

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .292576

Step 2 f(b) = .31266247

Fitting reduced model 2:

Step 1 f(b) = 1.779e-22

Group variable: mun_id

Number of obs = 1000

Time variable: year

Number of groups = 80

Moment conditions: linear = 24 Obs per group: min = 1
 nonlinear = 0 avg = 12.5
 total = 24 max = 14

(Std. err. adjusted for 80 clusters in mun_id)

l_rpc_activities	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_activities						
L1.	.1600982	.0946898	1.69	0.091	-.0254904	.3456867
elec_t	.4645057	.146282	3.18	0.001	.1777982	.7512132
Age	-.0013343	.0268161	-0.05	0.960	-.0538929	.0512243
sex						
Male	.2614656	.3079983	0.85	0.396	-.3421999	.8651311
k_12centers	.0039462	.004947	0.80	0.425	-.0057498	.0136422
gdp	7.84e-08	2.82e-08	2.78	0.005	2.32e-08	1.34e-07
interest_rate	-.009037	.0396888	-0.23	0.820	-.0868256	.0687516
_debt	-.0429056	.0195161	-2.20	0.028	-.0811565	-.0046546
deficit	4.61e-09	2.64e-07	0.02	0.986	-5.13e-07	5.22e-07
party_type						
National	-2.265062	1.615337	-1.40	0.161	-5.431064	.9009399
Provincial	-21.73202	18.91446	-1.15	0.251	-58.80368	15.33963
win_margin	.0381859	.0368887	1.04	0.301	-.0341146	.1104864
abstentionism	-.1003538	.0565791	-1.77	0.076	-.2112469	.0105393
pop_share014	-.0029123	.107391	-0.03	0.978	-.2133947	.2075701
pop_share65plus	-.5336454	.4885231	-1.09	0.275	-1.491133	.4238422
_cons	16.43169	8.854689	1.86	0.063	-.9231856	33.78656

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
```

L1.l1_rpc_activities L1.Age L1.2.sex L1.k_12centers L1.gdp
L1.interest_rate L1.debt L1.deficit L1.2bn.party type L1.3.party_type
L1.win_margin L1.abstentionism L1.pop_share014 L1.pop_share65plus

```
2, model(level):
```

D.L1_rpc_activities D.elec t D.Age D.2.sex D.k_12centers D.gdp
D.interest_rate D.debt D.deficit

```
3, model(level):
```

cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

[illegible][illegible]

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: $z = -3.3239$ Prob > |z| = 0.0009

H0: no autocorrelation of order 2:	z =	1.1105	Prob > z =	0.2668
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Generalized method of moments estimation

Fitting full model:

Step 1 $f(b) = .52177095$

Step 1	$f(b) =$.32177033
Step 2	$f(b) =$.44471554

Fitting reduced model 2:

Step 1 $f(b) = .32374623$

Group variable: **mun id**

Time variable: **year**

```
Number of obs      =      1000
```

$$\text{Number of groups} = \frac{1600}{80}$$

Moment conditions:	linear =	38	Obs per group:	min =	1
	nonlinear =	0		avg =	12.5
	total =	38		max =	14

(Std. err. adjusted for 80 clusters in mun id)

l_rpc_activities	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_activities						
L1.	.2373336	.0843512	2.81	0.005	.0720082	.402659
elec_t	.562248	.1011071	5.56	0.000	.3640816	.7604144
Age	-.0184807	.0201014	-0.92	0.358	-.0578787	.0209173
sex						
Male	.3142964	.3330088	0.94	0.345	-.338389	.9669817
k_12centers	.0014761	.0042712	0.35	0.730	-.0068953	.0098474
gdp	1.09e-07	2.44e-08	4.45	0.000	6.09e-08	1.57e-07
interest_rate	-.0451913	.0348577	-1.30	0.195	-.1135111	.0231285
debt	-.0270642	.0127204	-2.13	0.033	-.0519958	-.0021327
deficit	-4.61e-07	1.48e-07	-3.10	0.002	-7.51e-07	-1.70e-07
party_type						
National	-.4970126	1.937411	-0.26	0.798	-4.294268	3.300243
Provincial	-12.85592	12.53745	-1.03	0.305	-37.42887	11.71703
win_margin	.0546331	.0219686	2.49	0.013	.0115753	.0976908
abstentionism	-.1187911	.0445769	-2.66	0.008	-.2061602	-.031422
pop_share014	.1149274	.0849881	1.35	0.176	-.0516462	.2815011
pop_share65plus	-.7817071	.2755085	-2.84	0.005	-1.321694	-.2417204
_cons	13.33991	4.665077	2.86	0.004	4.196526	22.48329

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
```

```

L1.L1.l_rpc_activities L2.L1.l_rpc_activities L1.Age L2.Age L1.2.sex L2.2.sex
L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
L2.pop_share014 L1.pop_share65plus L2.pop_share65plus

```

```
2, model(level):
```

D.L1_rpc_activities D.elec t D.Age D.2.sex D.k_12centers D.gdp
D.interest_rate D.debt D.deficit

```
3, model(level):
```

cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

[illegible][illegible]

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1:	z =	-4.8080	Prob > z =	0.0000
H0: no autocorrelation of order 2:	z =	2.4231	Prob > z =	0.0154

Generalized method of moments estimation

Fitting full model:

Step 1 $f(b) = .83609769$

```

Step 1      1 (2)      .5555555556
Step 2      f (b) =   .5990328

```

Fitting reduced model 2:

Step 1 $f(b) = .50826228$

```

Group variable: mun_id           Number of obs   =    1000
Time variable: year           Number of groups =     80

```

Moment conditions:	linear =	52	Obs per group:	min =	1
	nonlinear =	0		avg =	12.5
	total =	52		max =	14

(Std. err. adjusted for 80 clusters in mun_id)

l_rpc_activities	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_activities L1.	.2147063	.083787	2.56	0.010	.0504867	.3789258
elec_t	.5524731	.106138	5.21	0.000	.3444464	.7604998
Age	-.0115379	.0156325	-0.74	0.460	-.042177	.0191013
sex						
Male	.1795657	.2676481	0.67	0.502	-.345015	.7041464
k_12centers	.0008061	.0039606	0.20	0.839	-.0069567	.0085688
gdp	1.01e-07	2.75e-08	3.66	0.000	4.68e-08	1.55e-07
interest_rate	-.002829	.0337878	-0.08	0.933	-.0690518	.0633938
_debt	-.0340774	.0108122	-3.15	0.002	-.0552689	-.0128859
deficit	-4.78e-07	1.41e-07	-3.40	0.001	-7.54e-07	-2.03e-07
party_type						
National	-.6077514	1.326593	-0.46	0.647	-3.207827	1.992324
Provincial	-4.248985	9.999449	-0.42	0.671	-23.84754	15.34957
win_margin	.0646609	.0196169	3.30	0.001	.0262124	.1031094
abstentionism	-.0969964	.0385659	-2.52	0.012	-.1725843	-.0214086
pop_share014	.09007	.0658896	1.37	0.172	-.0390712	.2192113
pop_share65plus	-.5536072	.1601799	-3.46	0.001	-.867554	-.2396604
_cons	11.24102	3.353695	3.35	0.001	4.667902	17.81415

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
```

L1.L1_rpc_activities L2.L1_rpc_activities L3.L1_rpc_activities L1.Age
L2.Age L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
L3.k_12centers L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate
L3.interest_rate L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit
L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L1.3.party_type
L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
L1.abstentionism L2.abstentionism L3.abstentionism L1.pop_share014
L2.pop_share014 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus
L3.pop_share65plus

```
2, model_level):
```

D.L.1_rpc_activities D.elec_t D.Age D.2.sex D.k_12centers D.gdp
D.interest_rate D.debt D.deficit

```
3, model(levēl):
```

cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

[illegible][illegible]

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: $z = -4.7536$ Prob $> |z| = 0.0000$

H0: no autocorrelation of order 2:	$z =$	2.5636	Prob > z =	0.0104
------------------------------------	-------	---------------	--------------	---------------

Generalized method of moments estimation

Fitting full model:

Step 1 $f(b) = 1.0759881$

Step 2 $f(b) = .72787163$

Fitting reduced model 2:

Step 1 $f(b) = .65277742$

Group variable: **mun id**

```
Number of obs      =      1000
```

Time variable: **year**

Number of groups = 80

Fitting reduced model 2:
Step 1 $f(b) = 1.471e-20$

Group variable: **mun_id** Number of obs = **906**
Time variable: **year** Number of groups = **79**

Moment conditions: linear = **25** Obs per group: min = **3**
nonlinear = **0** avg = **11.46835**
total = **25** max = **13**

(Std. err. adjusted for **79** clusters in **mun_id**)

l_rpc_activities	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_activities						
L1.	.4673733	.1000579	4.67	0.000	.2712633	.6634833
L2.	.2236889	.0614336	3.64	0.000	.1032811	.3440966
elec_t	.4125622	.0892186	4.62	0.000	.2376969	.5874275
Age	-.0074818	.0141161	-0.53	0.596	-.0351488	.0201851
sex						
Male	.6418316	.2198095	2.92	0.004	.2110129	1.07265
k_12centers	-.0043762	.0030368	-1.44	0.150	-.0103283	.0015758
gdp	2.20e-07	3.72e-08	5.91	0.000	1.47e-07	2.92e-07
interest_rate	-.1166407	.0357962	-3.26	0.001	-.1867999	-.0464815
debt	-.0840403	.011908	-7.06	0.000	-.1073796	-.060701
deficit	-3.18e-07	1.76e-07	-1.81	0.071	-6.64e-07	2.70e-08
party_type						
National	-.5895471	1.607718	-0.37	0.714	-3.740616	2.561522
Provincial	-1.64067	8.565128	-0.19	0.848	-18.42801	15.14667
win_margin	.0363045	.0183935	1.97	0.048	.000254	.072355
abstentionism	-.0599978	.023638	-2.54	0.011	-.1063274	-.0136683
pop_share014	.1353585	.0545681	2.48	0.013	.028407	.2423101
pop_share65plus	-.8007249	.206558	-3.88	0.000	-1.205571	-.3958786
_cons	7.779535	3.116106	2.50	0.013	1.672079	13.88699

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L2.l_rpc_activities L1.Age L1.2.sex L1.k_12centers L1.gdp
  L1.interest_rate L1.debt L1.deficit L1.2bn.party_type L1.3.party_type
  L1.win_margin L1.abstentionism L1.pop_share014 L1.pop_share65plus
2, model(level):
  D.L1_rpc_activities D.L2.l_rpc_activities D.elec_t D.Age D.2.sex
  D.k_12centers D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(10) = **13.6599**
Prob > chi2 = **0.1891**

2-step moment functions, 3-step weighting matrix chi2(10) = **14.5855**
Prob > chi2 = **0.1479**

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-4.7180** Prob > |z| = **0.0000**

H0: no autocorrelation of order 2: z = **-0.6576** Prob > |z| = **0.5108**

Generalized method of moments estimation

Fitting full model:

Step 1 $f(b) = .27344875$

Step 2 $f(b) = .37748577$

Fitting reduced model 2:

Step 1 f(b) = .20548067

Group variable: **mun_id**

Number of obs = 906

Time variable: **year**

Number of groups = 79

Moment conditions:

linear =	39
nonlinear =	0
total =	39

Obs per group:

min =	3
avg =	11.46835
max =	13

(Std. err. adjusted for 79 clusters in **mun_id**)

l_rpc_activities	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_activities						
L1.	.4208474	.1054735	3.99	0.000	.2141231	.6275718
L2.	.2137182	.0515646	4.14	0.000	.1126535	.3147829
elec_t	.4209603	.0938965	4.48	0.000	.2369265	.6049941
Age	.0039262	.0153419	0.26	0.798	-.0261434	.0339957
sex						
Male	.2882487	.1847416	1.56	0.119	-.0738383	.6503357
k_12centers	-.0004321	.0020725	-0.21	0.835	-.0044941	.00363
gdp	1.85e-07	2.97e-08	6.23	0.000	1.27e-07	2.44e-07
interest_rate	-.0752151	.0331384	-2.27	0.023	-.1401652	-.010265
debt	-.0775973	.0112692	-6.89	0.000	-.0996845	-.0555102
deficit	-3.22e-07	1.42e-07	-2.26	0.024	-6.01e-07	-4.29e-08
party_type						
National	-1.890999	2.077861	-0.91	0.363	-5.963531	2.181533
Provincial	-9.082788	9.347009	-0.97	0.331	-27.40259	9.237012
win_margin	.0375978	.0159197	2.36	0.018	.0063958	.0687998
abstentionism	-.0262888	.0194741	-1.35	0.177	-.0644572	.0118796
pop_share014	.1077701	.0438125	2.46	0.014	.0218991	.1936411
pop_share65plus	-.528505	.152598	-3.46	0.001	-.8275917	-.2294184
_cons	5.516366	2.712667	2.03	0.042	.1996365	10.8331

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.1_rpc_activities L2.L2.1_rpc_activities L1.Age L2.Age L1.2.sex
 L2.2.sex L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
 L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
 L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
 L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
 L2.pop_share014 L1.pop_share65plus L2.pop_share65plus

2, model(level):

D.L.1_rpc_activities D.L2.1_rpc_activities D.elec_t D.Age D.2.sex
 D.k_12centers D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix	chi2(24)	=	29.8214
	Prob > chi2	=	0.1907

2-step moment functions, 3-step weighting matrix	chi2(24)	=	34.1770
	Prob > chi2	=	0.0816

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -4.4366 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = -0.7541 Prob > |z| = 0.4508

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .69096908

Step 2 f(b) = .6378421

Fitting reduced model 2:

Step 1 f(b) = .49245746

Group variable: **mun_id**

Number of obs = 906

Time variable: **year**

Number of groups = 79

Moment conditions: linear = 53

Obs per group: min = 3

nonlinear = 0

avg = 11.46835

total = 53

max = 13

(Std. err. adjusted for 79 clusters in **mun_id**)

l_rpc_activities	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_activities						
L1.	.3205008	.1114944	2.87	0.004	.1019758	.5390259
L2.	.1214795	.0477583	2.54	0.011	.027875	.215084
elec_t	.2164157	.0852745	2.54	0.011	.0492807	.3835507
Age	.0131743	.0144613	0.91	0.362	-.0151693	.0415179
sex						
Male	.2090719	.2194915	0.95	0.341	-.2211235	.6392673
k_12centers	-.0004567	.0021349	-0.21	0.831	-.0046409	.0037276
gdp	1.94e-07	3.13e-08	6.20	0.000	1.33e-07	2.55e-07
interest_rate	-.0247825	.032436	-0.76	0.445	-.0883559	.0387909
debt	-.0860868	.0120355	-7.15	0.000	-.1096761	-.0624976
deficit	-2.38e-07	1.39e-07	-1.71	0.087	-5.10e-07	3.44e-08
party_type						
National	-.7545297	1.687342	-0.45	0.655	-4.06166	2.552601
Provincial	-.4848198	8.245783	-0.06	0.953	-16.64626	15.67662
win_margin	.0336064	.0126961	2.65	0.008	.0087225	.0584904
abstentionism	-.0091463	.0202829	-0.45	0.652	-.0489001	.0306074
pop_share014	.0823224	.0382667	2.15	0.031	.007321	.1573239
pop_share65plus	-.2336349	.0928164	-2.52	0.012	-.4155516	-.0517182
_cons	2.471905	2.51729	0.98	0.326	-2.461893	7.405704

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.1_rpc_activities L2.L2.1_rpc_activities L3.L2.1_rpc_activities L1.Age
 L2.Age L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
 L3.k_12centers L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate
 L3.interest_rate L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit
 L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L1.3.party_type
 L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
 L1.abstentionism L2.abstentionism L3.abstentionism L1.pop_share014
 L2.pop_share014 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus
 L3.pop_share65plus

2, model(level):

D.L.1_rpc_activities D.L2.1_rpc_activities D.elec_t D.Age D.2.sex
 D.k_12centers D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix

chi2(38) = 50.3895

Prob > chi2 = 0.0861

2-step moment functions, 3-step weighting matrix

chi2(38) = 54.9678

Prob > chi2 = 0.0368

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-4.1040** Prob > |z| = **0.0000**
H0: no autocorrelation of order 2: z = **-0.4761** Prob > |z| = **0.6340**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.79257295**
Step 2 f(b) = **.72383508**

Fitting reduced model 2:

Step 1 f(b) = **.64729284**

Group variable: **mun_id** Number of obs = **906**
Time variable: **year** Number of groups = **79**

Moment conditions: linear = **63** Obs per group: min = **3**
nonlinear = **0** avg = **11.46835**
total = **63** max = **13**

(Std. err. adjusted for 79 clusters in **mun_id**)

l_rpc_activities	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_activities						
L1.	.3137529	.1079425	2.91	0.004	.1021895	.5253163
L2.	.1166563	.0480204	2.43	0.015	.0225381	.2107745
elec_t	.2032889	.0855165	2.38	0.017	.0356796	.3708982
Age	.016241	.0147656	1.10	0.271	-.012699	.045181
sex						
Male	.1999573	.222618	0.90	0.369	-.236366	.6362806
k_12centers	-.0009092	.0021853	-0.42	0.677	-.0051922	.0033739
gdp	2.05e-07	3.15e-08	6.52	0.000	1.44e-07	2.67e-07
interest_rate	-.0372586	.0328349	-1.13	0.256	-.1016138	.0270966
debt	-.0845554	.0124906	-6.77	0.000	-.1090364	-.0600743
deficit	-1.88e-07	1.48e-07	-1.27	0.203	-4.79e-07	1.02e-07
party_type						
National	-1.489823	1.783423	-0.84	0.404	-4.985267	2.005622
Provincial	-5.040072	7.431513	-0.68	0.498	-19.60557	9.525427
win_margin	.0233929	.0136288	1.72	0.086	-.0033189	.0501048
abstentionism	-.0081807	.0235623	-0.35	0.728	-.0543618	.0380005
pop_share014	.1104038	.0360441	3.06	0.002	.0397587	.181049
pop_share65plus	-.2723113	.1032796	-2.64	0.008	-.4747357	-.0698869
_cons	2.477222	2.544802	0.97	0.330	-2.510498	7.464943

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.l_rpc_activities L2.L2.l_rpc_activities L3.L2.l_rpc_activities
L4.L2.l_rpc_activities L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex
L3.2.sex L4.2.sex L1.k_12centers L2.k_12centers L3.k_12centers
L4.k_12centers L1.gdp L2.gdp L3.gdp L4.gdp L2.interest_rate L2.debt L3.debt
L4.debt L1.deficit L2.deficit L3.deficit L4.deficit L1.2bn.party_type
L2.2bn.party_type L3.2bn.party_type L4.2bn.party_type L1.3.party_type
L2.3.party_type L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin
L3.win_margin L4.win_margin L1.abstentionism L2.abstentionism
L3.abstentionism L4.abstentionism L1.pop_share014 L2.pop_share014
L3.pop_share014 L4.pop_share014 L1.pop_share65plus L2.pop_share65plus
L3.pop_share65plus L4.pop_share65plus

2, model(level):

D.L.l_rpc_activities D.L2.l_rpc_activities D.elec_t D.Age D.2.sex
D.k_12centers D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix $\chi^2(48) = 57.1830$
 Prob > $\chi^2 = 0.1709$

2-step moment functions, 3-step weighting matrix $\chi^2(48) = 63.8774$
 Prob > $\chi^2 = 0.0622$

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: $z = -4.1210$ Prob > $|z| = 0.0000$
 H0: no autocorrelation of order 2: $z = -0.4363$ Prob > $|z| = 0.6626$

Generalized method of moments estimation

Fitting full model:

Step 1 $f(b) = .29259869$
 Step 2 $f(b) = .31235848$

Fitting reduced model 2:

Step 1 $f(b) = 1.884e-21$

Group variable: **mun_id** Number of obs = 1000
 Time variable: **year** Number of groups = 80

Moment conditions: linear = 25 Obs per group: min = 1
 nonlinear = 0 avg = 12.5
 total = 25 max = 14

(Std. err. adjusted for 80 clusters in **mun_id**)

l_rpc_activities	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_activities						
L1.	.1599539	.0935607	1.71	0.087	-.0234217	.3433295
elec_t						
--.	.3343272	.3540207	0.94	0.345	-.3595406	1.028195
L1.	-.1435171	.302407	-0.47	0.635	-.736224	.4491897
Age	.0006547	.0277434	0.02	0.981	-.0537213	.0550306
sex						
Male	.245606	.3144802	0.78	0.435	-.3707639	.8619759
k_12centers	.0040298	.0047847	0.84	0.400	-.005348	.0134077
gdp	8.36e-08	3.10e-08	2.70	0.007	2.29e-08	1.44e-07
interest_rate	-.0385382	.0572882	-0.67	0.501	-.150821	.0737445
debt	-.0494884	.0271006	-1.83	0.068	-.1026046	.0036279
deficit	1.46e-07	4.46e-07	0.33	0.743	-7.28e-07	1.02e-06
party_type						
National	-2.218311	1.623876	-1.37	0.172	-5.401049	.9644281
Provincial	-21.62404	18.82947	-1.15	0.251	-58.52913	15.28105
win_margin	.0376132	.0367516	1.02	0.306	-.0344186	.109645
abstentionism	-.0968657	.0564041	-1.72	0.086	-.2074157	.0136842
pop_share014	-.0098008	.0965963	-0.10	0.919	-.1991259	.1795244
pop_share65plus	-.4929254	.4651101	-1.06	0.289	-1.404524	.4186736
_cons	16.59186	7.808004	2.12	0.034	1.288457	31.89527

Instruments corresponding to the linear moment conditions:

1, model(diff):

 L1.L1_rpc_activities L1.Age L1.2.sex L1.k_12centers L1.gdp
 L1.interest_rate L1.debt L1.deficit L1.2bn.party_type L1.3.party_type
 L1.win_margin L1.abstentionism L1.pop_share014 L1.pop_share65plus

2, model(level):

 D.L1_rpc_activities D.elec_t D.L.elec_t D.Age D.2.sex D.k_12centers D.gdp
 D.interest_rate D.debt D.deficit

3, model(level):

 _cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(10) = 24.9887
 Prob > chi2 = 0.0054

2-step moment functions, 3-step weighting matrix chi2(10) = 34.8510
 Prob > chi2 = 0.0001

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -3.3753 Prob > |z| = 0.0007
 H0: no autocorrelation of order 2: z = 1.2111 Prob > |z| = 0.2259

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .54149654
 Step 2 f(b) = .44206833

Fitting reduced model 2:

Step 1 f(b) = .28615278

Group variable: **mun_id** Number of obs = 1000
 Time variable: **year** Number of groups = 80

Moment conditions: linear = 39 Obs per group: min = 1
 nonlinear = 0 avg = 12.5
 total = 39 max = 14

(Std. err. adjusted for 80 clusters in **mun_id**)

l_rpc_activities	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_activities						
L1.	.236537	.0893621	2.65	0.008	.0613904	.4116835
elec_t						
--.	.6435108	.2101942	3.06	0.002	.2315376	1.055484
L1.	.067594	.1846192	0.37	0.714	-.2942529	.429441
Age	-.0198815	.0204837	-0.97	0.332	-.0600287	.0202658
sex						
Male	.3365678	.3287341	1.02	0.306	-.3077391	.9808747
k_12centers	.0013417	.0044269	0.30	0.762	-.0073348	.0100183
gdp	1.05e-07	2.35e-08	4.45	0.000	5.86e-08	1.51e-07
interest_rate	-.0285965	.0502213	-0.57	0.569	-.1270284	.0698355
debt	-.0256109	.0151329	-1.69	0.091	-.0552708	.0040491
deficit	-5.29e-07	2.44e-07	-2.16	0.031	-1.01e-06	-4.97e-08
party_type						
National	-.5796914	1.915343	-0.30	0.762	-4.333694	3.174311
Provincial	-11.74931	12.621	-0.93	0.352	-36.486	12.98739
win_margin	.0561738	.0240357	2.34	0.019	.0090647	.103283
abstentionism	-.1272525	.0522421	-2.44	0.015	-.2296451	-.0248599
pop_share014	.118349	.0826122	1.43	0.152	-.043568	.2802659
pop_share65plus	-.7871334	.2744589	-2.87	0.004	-1.325063	-.2492038
_cons	13.76929	4.327037	3.18	0.001	5.288458	22.25013

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L1.l_rpc_activities L2.L1.l_rpc_activities L1.Age L2.Age L1.2.sex L2.2.sex
 L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
 L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
 L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
 L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
 L2.pop_share014 L1.pop_share65plus L2.pop_share65plus

2, model(level):

D.L1.l_rpc_activities D.elec_t D.L.elec_t D.Age D.2.sex D.k_12centers D.gdp
 D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(24) = 35.3655
Prob > chi2 = 0.0632

2-step moment functions, 3-step weighting matrix chi2(24) = 39.9321
Prob > chi2 = 0.0217

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -4.6417 Prob > |z| = 0.0000
H0: no autocorrelation of order 2: z = 2.3704 Prob > |z| = 0.0178

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .83375064
Step 2 f(b) = .59818538

Fitting reduced model 2:

Step 1 f(b) = .5017961

Group variable: **mun_id** Number of obs = 1000
Time variable: **year** Number of groups = 80

Moment conditions: linear = 53 Obs per group: min = 1
 nonlinear = 0 avg = 12.5
 total = 53 max = 14

(Std. err. adjusted for 80 clusters in **mun_id**)

l_rpc_activities	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_activities						
L1.	.2186081	.0842944	2.59	0.010	.0533942	.383822
elec_t						
--.	.5065427	.1940201	2.61	0.009	.1262703	.8868151
L1.	-.0727317	.1692591	-0.43	0.667	-.4044734	.25901
Age	-.0101776	.0169425	-0.60	0.548	-.0433843	.0230291
sex						
Male	.1995336	.2756168	0.72	0.469	-.3406654	.7397327
k_12centers	.001251	.0036786	0.34	0.734	-.005959	.008461
gdp	1.01e-07	2.90e-08	3.46	0.001	4.36e-08	1.57e-07
interest_rate	-.0152395	.0479761	-0.32	0.751	-.1092709	.0787918
debt	-.0374859	.0135812	-2.76	0.006	-.0641046	-.0108672
deficit	-4.12e-07	2.29e-07	-1.80	0.072	-8.62e-07	3.66e-08
party_type						
National	-.7841263	1.344797	-0.58	0.560	-3.419881	1.851628
Provincial	-4.962692	9.714776	-0.51	0.609	-24.0033	14.07792
win_margin	.0652852	.0206526	3.16	0.002	.0248068	.1057635
abstentionism	-.0964224	.0426066	-2.26	0.024	-.1799299	-.0129149
pop_share014	.0815265	.0675862	1.21	0.228	-.05094	.2139929
pop_share65plus	-.533218	.1770979	-3.01	0.003	-.8803236	-.1861124
_cons	11.66322	3.450914	3.38	0.001	4.899557	18.42689

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L1_rpc_activities L2.L1_rpc_activities L3.L1_rpc_activities L1.Age
L2.Age L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
L3.k_12centers L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate
L3.interest_rate L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit
L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L1.3.party_type
L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
L1.abstentionism L2.abstentionism L3.abstentionism L1.pop_share014
L2.pop_share014 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus
L3.pop_share65plus

```

2, model(level):
  D.L1_rpc_activities D.elec_t D.L.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(38)      =    47.8548
                                                         Prob > chi2    =    0.1313

```

```

2-step moment functions, 3-step weighting matrix      chi2(38)      =    52.7298
                                                         Prob > chi2    =    0.0565

```

Arellano-Bond test for autocorrelation of the first-differenced residuals

```

H0: no autocorrelation of order 1:      z =    -4.7522    Prob > |z|    =    0.0000
H0: no autocorrelation of order 2:      z =     2.7625    Prob > |z|    =    0.0057

```

Generalized method of moments estimation

Fitting full model:

```

Step 1      f(b) =    1.1170809
Step 2      f(b) =    .73378875

```

Fitting reduced model 2:

```

Step 1      f(b) =    .63516218

```

```

Group variable: mun_id      Number of obs      =    1000
Time variable:  year      Number of groups   =     80

```

```

Moment conditions:      linear =     64      Obs per group:   min =     1
                        nonlinear =    0      avg =    12.5
                        total =    64      max =    14

```

(Std. err. adjusted for 80 clusters in mun_id)

l_rpc_activities	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_activities						
L1.	.2292177	.0794216	2.89	0.004	.0735543	.3848811
elec_t						
--.	.322405	.1355807	2.38	0.017	.0566718	.5881383
L1.	-.2569408	.1280578	-2.01	0.045	-.5079295	-.005952
Age	-.0067481	.0169877	-0.40	0.691	-.0400435	.0265472
sex						
Male	.2417724	.2812629	0.86	0.390	-.3094928	.7930375
k_12centers	-.0001537	.0032633	-0.05	0.962	-.0065498	.0062423
gdp	1.13e-07	2.78e-08	4.07	0.000	5.85e-08	1.67e-07
interest_rate	-.0618699	.0434396	-1.42	0.154	-.1470099	.0232702
debt	-.0429021	.0107875	-3.98	0.000	-.0640452	-.021759
deficit	-2.09e-07	1.98e-07	-1.05	0.292	-5.97e-07	1.80e-07
party_type						
National	-1.164169	1.366414	-0.85	0.394	-3.842292	1.513954
Provincial	-4.028847	8.299678	-0.49	0.627	-20.29592	12.23822
win_margin	.051655	.0195763	2.64	0.008	.0132862	.0900237
abstentionism	-.072834	.0373789	-1.95	0.051	-.1460953	.0004273
pop_share014	.0910315	.0548569	1.66	0.097	-.016486	.1985489
pop_share65plus	-.4839068	.1672736	-2.89	0.004	-.811757	-.1560565
_cons	10.51729	3.071976	3.42	0.001	4.496324	16.53825

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L1_rpc_activities L2.L1_rpc_activities L3.L1_rpc_activities
  L4.L1_rpc_activities L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex
  L3.2.sex L4.2.sex L1.k_12centers L2.k_12centers L3.k_12centers

```

```

L4.k_12centers L1.gdp L2.gdp L3.gdp L4.gdp L2.interest_rate L1.debt L2.debt
L3.debt L4.debt L1.deficit L2.deficit L3.deficit L4.deficit
L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L4.2bn.party_type
L1.3.party_type L2.3.party_type L3.3.party_type L4.3.party_type
L1.win_margin L2.win_margin L3.win_margin L4.win_margin L1.abstentionism
L2.abstentionism L3.abstentionism L4.abstentionism L1.pop_share014
L2.pop_share014 L3.pop_share014 L4.pop_share014 L1.pop_share65plus
L2.pop_share65plus L3.pop_share65plus L4.pop_share65plus
2, model(level):
  D.L1_rpc activities D.elec_t D.L.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(49)    =    58.7031
                                                         Prob > chi2 =    0.1615

```

```

2-step moment functions, 3-step weighting matrix      chi2(49)    =    65.0406
                                                         Prob > chi2 =    0.0622

```

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = -5.0888 Prob > |z| = 0.0000
H0: no autocorrelation of order 2: z = 2.5746 Prob > |z| = 0.0100

Generalized method of moments estimation

```

Fitting full model:
Step 1            f(b) =   .16714047
Step 2            f(b) =   .16083623

```

```

Group variable: mun_id                                    Number of obs                =       906
Time variable: year                                      Number of groups            =       79

```

```

Moment conditions:       linear =       26       Obs per group:    min =       3
                         nonlinear =       0                                avg =   11.46835
                         total =       26                                max =       13

```

(Std. err. adjusted for 79 clusters in mun_id)

l_rpc_activities	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_activities						
L1.	.449124	.1070061	4.20	0.000	.2393959	.6588521
L2.	.2119123	.0638928	3.32	0.001	.0866847	.3371399
elec_t						
--.	.5602802	.1661707	3.37	0.001	.2345917	.8859687
L1.	.1795839	.1843976	0.97	0.330	-.1818286	.5409965
Age	-.0075373	.0143984	-0.52	0.601	-.0357577	.020683
sex						
Male	.6363823	.2193295	2.90	0.004	.2065044	1.06626
k_12centers	-.0042978	.0029233	-1.47	0.142	-.0100273	.0014318
gdp	2.17e-07	3.28e-08	6.61	0.000	1.52e-07	2.81e-07
interest_rate	-.076057	.0487157	-1.56	0.118	-.1715379	.019424
debt	-.0767724	.0146716	-5.23	0.000	-.1055282	-.0480167
deficit	-4.84e-07	2.57e-07	-1.88	0.060	-9.89e-07	2.02e-08
party_type						
National	-.5204264	1.622121	-0.32	0.748	-3.699724	2.658872
Provincial	-2.786141	9.316512	-0.30	0.765	-21.04617	15.47389
win_margin	.0356234	.0180566	1.97	0.049	.0002331	.0710137
abstentionism	-.0604602	.0235803	-2.56	0.010	-.1066767	-.0142437
pop_share014	.1443148	.0558074	2.59	0.010	.0349344	.2536953
pop_share65plus	-.8247981	.1894767	-4.35	0.000	-1.196166	-.4534305
_cons	7.000079	3.212233	2.18	0.029	.7042171	13.29594

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L2.l_rpc_activities L1.Age L1.2.sex L1.k_12centers L1.gdp
  L1.interest_rate L1.debt L1.deficit L1.2bn.party_type L1.3.party_type
  L1.win_margin L1.abstentionism L1.pop_share014 L1.pop_share65plus
2, model(level):
  D.L.l_rpc_activities D.L2.l_rpc_activities D.elec_t D.L.elec_t D.Age
  D.2.sex D.k_12centers D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(10) = **12.7061**
 Prob > chi2 = **0.2406**

2-step moment functions, 3-step weighting matrix chi2(10) = **13.5441**
 Prob > chi2 = **0.1948**

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-4.5456** Prob > |z| = **0.0000**
 H0: no autocorrelation of order 2: z = **-0.8368** Prob > |z| = **0.4027**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.28697955**
 Step 2 f(b) = **.35216146**

Fitting reduced model 2:

Step 1 f(b) = **.14479789**

Group variable: **mun_id** Number of obs = **906**
 Time variable: **year** Number of groups = **79**

Moment conditions: linear = **40** Obs per group: min = **3**
 nonlinear = **0** avg = **11.46835**
 total = **40** max = **13**

(Std. err. adjusted for **79** clusters in **mun_id**)

l_rpc_activities	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_activities						
L1.	.4221105	.0996725	4.23	0.000	.2267561	.617465
L2.	.2146411	.0496709	4.32	0.000	.117288	.3119943
elec_t						
--.	.5125367	.133873	3.83	0.000	.2501504	.7749229
L1.	.1332097	.1406107	0.95	0.343	-.1423822	.4088015
Age	.0016018	.0162715	0.10	0.922	-.0302897	.0334933
sex						
Male	.3390289	.189057	1.79	0.073	-.0315161	.7095739
k_12centers	-.0005522	.0023026	-0.24	0.810	-.0050653	.0039609
gdp	1.91e-07	2.82e-08	6.76	0.000	1.35e-07	2.46e-07
interest_rate	-.0525641	.0464688	-1.13	0.258	-.1436413	.0385132
debt	-.074058	.012092	-6.12	0.000	-.0977578	-.0503582
deficit	-4.47e-07	1.90e-07	-2.35	0.019	-8.20e-07	-7.42e-08
party_type						
National	-1.128855	1.894324	-0.60	0.551	-4.841662	2.583952
Provincial	-9.50777	9.05539	-1.05	0.294	-27.25601	8.240467
win_margin	.0402005	.0174752	2.30	0.021	.0059498	.0744511
abstentionism	-.0310838	.019667	-1.58	0.114	-.0696303	.0074628
pop_share014	.1251016	.0446815	2.80	0.005	.0375274	.2126758
pop_share65plus	-.5677857	.1498771	-3.79	0.000	-.8615394	-.2740319

_cons	4.312989	2.868758	1.50	0.133	-1.309674	9.935652
--------------	-----------------	-----------------	-------------	--------------	------------------	-----------------

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L2.l_rpc_activities L2.L2.l_rpc_activities L1.Age L2.Age L1.2.sex
  L2.2.sex L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
  L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
  L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
  L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
  L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
2, model(level):
  D.L.l_rpc_activities D.L2.l_rpc_activities D.elec_t D.L.elec_t D.Age
  D.2.sex D.k_12centers D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(24) = **27.8208**
 Prob > chi2 = **0.2677**

2-step moment functions, 3-step weighting matrix chi2(24) = **34.1490**
 Prob > chi2 = **0.0821**

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-4.5075** Prob > |z| = **0.0000**

H0: no autocorrelation of order 2: z = **-0.9577** Prob > |z| = **0.3382**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.66043348**

Step 2 f(b) = **.62636638**

Fitting reduced model 2:

Step 1 f(b) = **.48517922**

Group variable: **mun_id**

Number of obs = **906**

Time variable: **year**

Number of groups = **79**

Moment conditions: linear = **54** Obs per group: min = **3**
 nonlinear = **0** avg = **11.46835**
 total = **54** max = **13**

(Std. err. adjusted for **79** clusters in **mun_id**)

	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_activities						
l_rpc_activities						
L1.	.3243963	.1075798	3.02	0.003	.1135439	.5352488
L2.	.1167516	.047341	2.47	0.014	.0239649	.2095384
elec_t						
--.	.1496169	.110305	1.36	0.175	-.0665769	.3658107
L1.	-.142683	.1250373	-1.14	0.254	-.3877515	.1023855
Age	.0141078	.0139998	1.01	0.314	-.0133314	.0415469
sex						
Male	.2214419	.2109468	1.05	0.294	-.1920062	.63489
k_12centers	-.0001124	.0018672	-0.06	0.952	-.0037721	.0035472
gdp	1.83e-07	3.05e-08	5.99	0.000	1.23e-07	2.43e-07
interest_rate	-.0495748	.0365415	-1.36	0.175	-.1211948	.0220453
debt	-.087445	.0117495	-7.44	0.000	-.1104735	-.0644164
deficit	-1.29e-07	1.80e-07	-0.72	0.474	-4.80e-07	2.23e-07
party_type						
National	-.3720198	1.654706	-0.22	0.822	-3.615183	2.871143
Provincial	-.6864984	8.127105	-0.08	0.933	-16.61533	15.24233

win_margin	.0336449	.0109554	3.07	0.002	.0121728	.0551171
abstentionism	-.0128041	.0194497	-0.66	0.510	-.0509248	.0253166
pop_share014	.0658727	.0373499	1.76	0.078	-.0073318	.1390773
pop_share65plus	-.1955163	.0851506	-2.30	0.022	-.3624083	-.0286243
_cons	3.071586	2.617074	1.17	0.241	-2.057784	8.200957

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L2.1_rpc_activities L2.L2.1_rpc_activities L3.L2.1_rpc_activities L1.Age
  L2.Age L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
  L3.k_12centers L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate
  L3.interest_rate L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit
  L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L1.3.party_type
  L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
  L1.abstentionism L2.abstentionism L3.abstentionism L1.pop_share014
  L2.pop_share014 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus
  L3.pop_share65plus
2, model(level):
  D.L.1_rpc_activities D.L2.1_rpc_activities D.elec_t D.L.elec_t D.Age
  D.2.sex D.k_12centers D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix	chi2(38)	=	49.4829
	Prob > chi2	=	0.1005

2-step moment functions, 3-step weighting matrix	chi2(38)	=	55.2193
	Prob > chi2	=	0.0351

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1:	z =	-4.2652	Prob > z	=	0.0000
H0: no autocorrelation of order 2:	z =	-0.1473	Prob > z	=	0.8829

Generalized method of moments estimation

Fitting full model:

Step 1	f(b) =	.76515442
Step 2	f(b) =	.7176309

Fitting reduced model 2:

Step 1	f(b) =	.64213139
--------	--------	-----------

Group variable: mun_id	Number of obs	=	906
Time variable: year	Number of groups	=	79

Moment conditions:	linear =	64	Obs per group:	min =	3
	nonlinear =	0		avg =	11.46835
	total =	64		max =	13

(Std. err. adjusted for 79 clusters in mun_id)

l_rpc_activities	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_activities						
L1.	.3195523	.1047702	3.05	0.002	.1142064	.5248981
L2.	.1093502	.0476155	2.30	0.022	.0160256	.2026749
elec_t						
--.	.1275376	.1062406	1.20	0.230	-.0806902	.3357654
L1.	-.1422622	.1197644	-1.19	0.235	-.3769961	.0924717
Age	.0157916	.0139806	1.13	0.259	-.0116097	.043193
sex						
Male	.2084141	.2050517	1.02	0.309	-.1934798	.610308
k_12centers	-.0002896	.0019399	-0.15	0.881	-.0040916	.0035125
gdp	1.93e-07	3.15e-08	6.13	0.000	1.31e-07	2.55e-07
interest_rate	-.058399	.0382464	-1.53	0.127	-.1333606	.0165627

debt	- .0863535	.0120433	-7.17	0.000	- .109958	- .0627491
deficit	-8.40e-08	1.79e-07	-0.47	0.639	-4.35e-07	2.67e-07
party_type						
National	- .8959763	1.75393	-0.51	0.609	-4.333616	2.541663
Provincial	-4.963484	7.393229	-0.67	0.502	-19.45395	9.526978
win_margin	.0232775	.0118104	1.97	0.049	.0001296	.0464254
abstentionism	-.0121927	.0218378	-0.56	0.577	-.054994	.0306087
pop_share014	.0906012	.0357964	2.53	0.011	.0204416	.1607609
pop_share65plus	-.21498	.0999566	-2.15	0.031	-.4108913	-.0190686
_cons	2.921489	2.488154	1.17	0.240	-1.955204	7.798182

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
```

L1.L2.1_rpc_activities L2.L2.1_rpc_activities L3.L2.1_rpc_activities
L4.L2.1_rpc_activities L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex
L3.2.sex L4.2.sex L1.k 12centers L2.k 12centers L3.k 12centers
L4.k 12centers L1.gdp L2.gdp L3.gdp L4.gdp L2.interest_rate L2.debt L3.debt
L4.debt L1.deficit L2.deficit L3.deficit L4.deficit L1.2bn.party_type
L2.2bn.party_type L3.2bn.party_type L4.2bn.party_type L1.3.party_type
L2.3.party_type L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin
L3.win_margin L4.win_margin L1.abstentionism L2.abstentionism
L3.abstentionism L4.abstentionism L1.pop_share014 L2.pop_share014
L3.pop_share014 L4.pop_share014 L1.pop_share65plus L2.pop_share65plus
L3.pop_share65plus L4.pop_share65plus

```
2, model(level):
```

D.L1.rpc_activities D.L2.1_rpc_activities D.elec_t D.L.elec_t D.Age
D.2.sex D.k 12centers D.gdp D.interest rate D.debt D.deficit

```
3, model(level):
```

cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

[illegible][illegible]

Arellano-Bond test for autocorrelation of the first-differenced residuals

Durbin-Watson test for autocorrelation of the first differenced residuals				
H0: no autocorrelation of order 1:	z =	-4.3105	Prob > z =	0.0000
H0: no autocorrelation of order 2:	z =	-0.1172	Prob > z =	0.9067

Generalized method of moments estimation

Fitting full model:

```

Step 1      f(b) = .22002723
Step 2      f(b) = .11805222

```

Fitting reduced model 2:

Step 1 $f(b) = 6.816e-23$

```

Group variable: mun_id           Number of obs   =      860
Time variable: year             Number of groups =       79

```

Moment conditions:	linear =	24	Obs per group:	min =	1
	nonlinear =	0		avg =	10.88608
	total =	24		max =	14

(Std. err. adjusted for 79 clusters in `mun_id`)

<code>l_rpc_main_bcl</code>	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
<code>l_rpc_main_bcl</code>						
<code>L1.</code>	.417919	.0847788	4.93	0.000	.2517557	.5840824
<code>elec_t</code>	.0444928	.1753736	0.25	0.800	-.2992332	.3882187
<code>Age</code>	-.0209129	.0238899	-0.88	0.381	-.0677363	.0259105
<code>sex</code>						
<code>Male</code>	-.5925235	.4915217	-1.21	0.228	-1.555888	.3708413
<code>k_12centers</code>	-.0077084	.0050433	-1.53	0.126	-.0175931	.0021763
<code>gdp</code>	1.02e-08	3.63e-08	0.28	0.778	-6.10e-08	8.14e-08
<code>interest_rate</code>	-.0209225	.0528768	-0.40	0.692	-.1245592	.0827142
<code>debt</code>	-.0197761	.0212988	-0.93	0.353	-.061521	.0219688
<code>deficit</code>	1.60e-08	3.83e-07	0.04	0.967	-7.34e-07	7.66e-07
<code>party_type</code>						
<code>National</code>	-.6757484	2.278498	-0.30	0.767	-5.141521	3.790025
<code>Provincial</code>	32.28206	19.85943	1.63	0.104	-6.641706	71.20583
<code>win_margin</code>	.0163415	.0203369	0.80	0.422	-.023518	.0562011
<code>abstentionism</code>	-.0015552	.0452918	-0.03	0.973	-.0903256	.0872151
<code>pop_share014</code>	-.0019757	.0681758	-0.03	0.977	-.1355979	.1316465
<code>pop_share65plus</code>	.0095903	.3560783	0.03	0.979	-.6883102	.7074909
<code>_cons</code>	6.537672	3.567818	1.83	0.067	-.4551234	13.53047

Instruments corresponding to the linear moment conditions:

1, model(diff):

`L1.L1_rpc_main_bcl` `L1.Age` `L1.2.sex` `L1.k_12centers` `L1.gdp` `L1.interest_rate`
 `L1.debt` `L1.deficit` `L1.2bn.party_type` `L1.3.party_type` `L1.win_margin`
 `L1.abstentionism` `L1.pop_share014` `L1.pop_share65plus`

2, model(level):

`D.L1_rpc_main_bcl` `D.elec_t` `D.Age` `D.2.sex` `D.k_12centers` `D.gdp`
 `D.interest_rate` `D.debt` `D.deficit`

3, model(level):

`_cons`

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix `chi2(10)` = **9.3261**
 `Prob > chi2` = **0.5015**

2-step moment functions, 3-step weighting matrix `chi2(10)` = **29.6983**
 `Prob > chi2` = **0.0010**

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: `z` = **-6.2781** `Prob > |z|` = **0.0000**H0: no autocorrelation of order 2: `z` = **-0.3027** `Prob > |z|` = **0.7621**

Generalized method of moments estimation

Fitting full model:

Step 1 `f(b)` = **.30568858**Step 2 `f(b)` = **.18663102**

Fitting reduced model 2:

Step 1 `f(b)` = **.06349843**Group variable: `mun_id`Number of obs = **860**Time variable: `year`Number of groups = **79**

Moment conditions: `linear` = **38** Obs per group: `min` = **1**
 `nonlinear` = **0** `avg` = **10.88608**
 `total` = **38** `max` = **14**

(Std. err. adjusted for 79 clusters in mun id)

l_rpc_main_bcl	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_main_bcl l1.	.3635054	.0639863	5.68	0.000	.2380946	.4889162
elec_t	.0459458	.1379983	0.33	0.739	-.2245259	.3164175
Age	-.0230774	.020363	-1.13	0.257	-.0629882	.0168334
sex						
Male	-.3196164	.4184979	-0.76	0.445	-1.139857	.5006243
k_12centers	-.0095805	.0036462	-2.63	0.009	-.016727	-.002434
gdp	2.51e-08	2.60e-08	0.96	0.335	-2.59e-08	7.61e-08
interest_rate	-.0231532	.0421882	-0.55	0.583	-.1058405	.0595341
debt	-.0014175	.0117193	-0.12	0.904	-.024387	.0215519
deficit	-3.36e-07	1.88e-07	-1.79	0.074	-7.05e-07	3.26e-08
party_type						
National	-.6711225	2.452421	-0.27	0.784	-5.477779	4.135534
Provincial	29.58334	20.2311	1.46	0.144	-10.06888	69.23557
win_margin	.0110284	.0199552	0.55	0.580	-.0280831	.0501398
abstentionism	-.0100868	.0358585	-0.28	0.778	-.0803681	.0601946
pop_share014	.0489483	.0457895	1.07	0.285	-.0407975	.1386941
pop_share65plus	-.1392542	.1922081	-0.72	0.469	-.5159751	.2374667
_cons	5.509627	3.061443	1.80	0.072	-.4906898	11.50994

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
```

L1.L.1_rpc_main_bcl L2.L.1_rpc_main_bcl L1.Age L2.Age L1.2.sex L2.2.sex
L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
L2.pop_share014 L1.pop_share65plus L2.pop_share65plus

```
2, model(level):
```

D.L1_rpc_main_bcl D.elec_t D.Age D.2.sex D.k_12centers D.gdp
D.interest_rate D.debt D.deficit

```
3, model(levēl):
```

cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

[illegible][illegible]

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1:	z =	-5.8736	Prob > z =	0.0000
H0: no autocorrelation of order 2:	z =	-0.3166	Prob > z =	0.7516

Generalized method of moments estimation

Fitting full model:

Step 1 $f(b) = .63175514$

```

Step 1      1 (2)      .33333333
Step 2      f (b) =   .3889258

```

Fitting reduced model 2:

Step 1 $f(b) = .1883392$

```

Group variable: mun_id           Number of obs   =      860
Time variable: year             Number of groups =       79

```

Moment conditions:	linear =	52	Obs per group:	min =	1
	nonlinear =	0		avg =	10.88608
	total =	52		max =	14

(Std. err. adjusted for 79 clusters in mun_id)

l_rpc_main_bcl	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_main_bcl L1.	.3273827	.0762568	4.29	0.000	.1779222	.4768433
elec_t	-.0086253	.1217359	-0.07	0.944	-.2472233	.2299727
Age	-.028753	.0202685	-1.42	0.156	-.0684784	.0109725
sex						
Male	-.2289403	.4012327	-0.57	0.568	-1.015342	.5574615
k_12centers	-.0068333	.0027597	-2.48	0.013	-.0122423	-.0014244
gdp	1.75e-08	2.22e-08	0.79	0.430	-2.60e-08	6.10e-08
interest_rate	-.0171699	.043195	-0.40	0.691	-.1018306	.0674908
debt	-.0066782	.0102971	-0.65	0.517	-.0268602	.0135038
deficit	-2.40e-07	1.72e-07	-1.40	0.162	-5.77e-07	9.66e-08
party_type						
National	2.09909	2.14971	0.98	0.329	-2.114264	6.312445
Provincial	14.14817	15.36855	0.92	0.357	-15.97364	44.26997
win_margin	.0171327	.0277992	0.62	0.538	-.0373527	.0716182
abstentionism	-.0437158	.032024	-1.37	0.172	-.1064816	.0190501
pop_share014	.0467575	.0359694	1.30	0.194	-.0237413	.1172563
pop_share65plus	-.0314806	.1219377	-0.26	0.796	-.2704741	.207513
_cons	4.977731	2.229819	2.23	0.026	.6073664	9.348096

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
```

L1.L1_rpc_main_bcl L2.L1_rpc_main_bcl L3.L1_rpc_main_bcl L1.Age L2.Age
L3.Age L1.L2.sex L2.L2.sex L3.L2.sex L1.k_12centers L2.k_12centers
L3.k_12centers L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate
L3.interest_rate L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit
L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L1.3.party_type
L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
L1.abstentionism L2.abstentionism L3.abstentionism L1.pop_share014
L2.pop_share014 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus
L3.pop_share65plus

```
2, model_level):
```

D.L.1_rpc main_bcl D.elec t D.Age D.2.sex D.k_12centers D.gdp
D.interest_rate D.debt D.deficit

```
3, model(levēl):
```

cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

[illegible][illegible]

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1:	z =	-5.7918	Prob > z =	0.0000
H0: no autocorrelation of order 2:	z =	-0.1801	Prob > z =	0.8570

Generalized method of moments estimation

Fitting full model:

Step 1 $f(b) = .86478044$
Step 2 $f(b) = .51262044$

Fitting reduced model 2:

Step 1 $f(b) = .35240892$

```

Group variable: mun_id           Number of obs   =      860
Time variable: year             Number of groups =       79

```


Fitting reduced model 2:

Step 1 $f(b) = 5.734e-23$ Group variable: **mun_id**Number of obs = **754**Time variable: **year**Number of groups = **74**

Moment conditions:	linear =	25	Obs per group: min =	1
	nonlinear =	0	avg =	10.18919
	total =	25	max =	13

(Std. err. adjusted for **74** clusters in **mun_id**)

l_rpc_main_bcl	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_main_bcl						
L1.	.3531604	.0775185	4.56	0.000	.2012269	.5050939
L2.	.0259714	.0807773	0.32	0.748	-.1323491	.1842919
elec_t	-.1101123	.1711847	-0.64	0.520	-.4456282	.2254036
Age	-.0164719	.0286561	-0.57	0.565	-.0726368	.0396929
sex						
Male	-.1266415	.5111149	-0.25	0.804	-1.128408	.8751252
k_12centers	-.0041395	.0050671	-0.82	0.414	-.0140708	.0057919
gdp	3.90e-08	6.08e-08	0.64	0.521	-8.01e-08	1.58e-07
interest_rate	-.0073553	.0679019	-0.11	0.914	-.1404405	.1257299
debt	-.0377353	.0251608	-1.50	0.134	-.0870496	.011579
deficit	9.07e-08	2.93e-07	0.31	0.757	-4.83e-07	6.64e-07
party_type						
National	2.500271	2.452596	1.02	0.308	-2.306728	7.30727
Provincial	29.24787	38.85759	0.75	0.452	-46.9116	105.4074
win_margin	.0695287	.0483278	1.44	0.150	-.025192	.1642494
abstentionism	-.0176298	.0556782	-0.32	0.752	-.1267571	.0914975
pop_share014	.0085615	.0709133	0.12	0.904	-.130426	.147549
pop_share65plus	.218003	.3078406	0.71	0.479	-.3853534	.8213594
_cons	1.918685	5.368957	0.36	0.721	-8.604278	12.44165

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.l_rpc_main_bcl L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
 L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
 L1.abstentionism L1.pop_share014 L1.pop_share65plus

2, model(level):

D.L1_rpc_main_bcl D.L2.l_rpc_main_bcl D.elec_t D.Age D.2.sex D.k_12centers
 D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix	chi2(10) =	9.9531
	Prob > chi2 =	0.4446

2-step moment functions, 3-step weighting matrix	chi2(10) =	15.5697
	Prob > chi2 =	0.1126

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-5.8172** Prob > |z| = **0.0000**H0: no autocorrelation of order 2: z = **-0.5351** Prob > |z| = **0.5926**

Generalized method of moments estimation

Fitting full model:

Step 1 $f(b) = .29609384$ Step 2 $f(b) = .21138842$

Fitting reduced model 2:

Step 1 f(b) = .06480033

Group variable: **mun_id**

Number of obs = 754

Time variable: **year**

Number of groups = 74

Moment conditions:

linear =	39
nonlinear =	0
total =	39

Obs per group:

min =	1
avg =	10.18919
max =	13

(Std. err. adjusted for 74 clusters in **mun_id**)

l_rpc_main_bcl	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_main_bcl						
L1.	.3236089	.0647222	5.00	0.000	.1967557	.4504621
L2.	.036526	.0636742	0.57	0.566	-.0882731	.1613252
elec_t	-.0609721	.1574161	-0.39	0.699	-.369502	.2475577
Age	-.010148	.0224869	-0.45	0.652	-.0542215	.0339255
sex						
Male	-.0160457	.3734209	-0.04	0.966	-.7479372	.7158458
k_12centers	-.0023898	.0042451	-0.56	0.573	-.0107101	.0059305
gdp	2.95e-08	3.06e-08	0.96	0.335	-3.05e-08	8.94e-08
interest_rate	.0265281	.0446288	0.59	0.552	-.0609427	.1139989
debt	-.0279159	.016619	-1.68	0.093	-.0604885	.0046567
deficit	-4.72e-08	2.33e-07	-0.20	0.839	-5.03e-07	4.09e-07
party_type						
National	2.922417	1.666625	1.75	0.080	-.3441069	6.188942
Provincial	15.25234	15.92612	0.96	0.338	-15.96228	46.46695
win_margin	.0602543	.0382551	1.58	0.115	-.0147243	.1352328
abstentionism	-.0309789	.0366799	-0.84	0.398	-.1028702	.0409124
pop_share014	.0143923	.0518858	0.28	0.781	-.0873019	.1160866
pop_share65plus	.227244	.197806	1.15	0.251	-.1604487	.6149367
_cons	1.152177	2.98815	0.39	0.700	-4.70449	7.008844

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.1_rpc_main_bcl L2.L2.1_rpc_main_bcl L1.Age L2.Age L1.2.sex L2.2.sex
L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
L2.pop_share014 L1.pop_share65plus L2.pop_share65plus

2, model(level):

D.L.1_rpc_main_bcl D.L2.1_rpc_main_bcl D.elec_t D.Age D.2.sex D.k_12centers
D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix	chi2(24)	=	15.6427
	Prob > chi2	=	0.9005

2-step moment functions, 3-step weighting matrix	chi2(24)	=	19.7201
	Prob > chi2	=	0.7126

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -5.7915 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = -0.4599 Prob > |z| = 0.6456

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .68918203

Step 2 f(b) = .3439845

Fitting reduced model 2:

Step 1 f(b) = .19215029

Group variable: **mun_id**

Number of obs = 754

Time variable: **year**

Number of groups = 74

Moment conditions: linear = 53

Obs per group: min = 1

nonlinear = 0

avg = 10.18919

total = 53

max = 13

(Std. err. adjusted for 74 clusters in **mun_id**)

l_rpc_main_bcl	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_main_bcl						
L1.	.2603069	.0563752	4.62	0.000	.1498135	.3708002
L2.	.0060754	.0595098	0.10	0.919	-.1105618	.1227125
elec_t	-.0482709	.1295076	-0.37	0.709	-.3021012	.2055594
Age	-.0329776	.0204238	-1.61	0.106	-.0730075	.0070524
sex						
Male	.2419625	.405322	0.60	0.551	-.552454	1.036379
k_12centers	-.0042016	.0034264	-1.23	0.220	-.0109171	.0025139
gdp	3.54e-08	2.84e-08	1.25	0.212	-2.02e-08	9.09e-08
interest_rate	-.0008363	.0446321	-0.02	0.985	-.0883135	.086641
debt	-.0172964	.0162899	-1.06	0.288	-.0492239	.0146312
deficit	-1.17e-07	2.10e-07	-0.56	0.576	-5.28e-07	2.94e-07
party_type						
National	4.438556	2.53889	1.75	0.080	-.5375774	9.414689
Provincial	.8850799	7.592032	0.12	0.907	-13.99503	15.76519
win_margin	.0369067	.0300065	1.23	0.219	-.021905	.0957184
abstentionism	-.0732601	.0295096	-2.48	0.013	-.1310979	-.0154223
pop_share014	.0348359	.0377307	0.92	0.356	-.0391149	.1087866
pop_share65plus	-.0195514	.1279204	-0.15	0.879	-.2702708	.231168
_cons	4.856472	2.572549	1.89	0.059	-.1856314	9.898575

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.1_rpc_main_bcl L2.L2.1_rpc_main_bcl L3.L2.1_rpc_main_bcl L1.Age
 L2.Age L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
 L3.k_12centers L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate
 L3.interest_rate L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit
 L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L1.3.party_type
 L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
 L1.abstentionism L2.abstentionism L3.abstentionism L1.pop_share014
 L2.pop_share014 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus
 L3.pop_share65plus

2, model(level):

D.L.1_rpc_main_bcl D.L2.1_rpc_main_bcl D.elec_t D.Age D.2.sex D.k_12centers
 D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix

chi2(38) = 25.4549

Prob > chi2 = 0.9404

2-step moment functions, 3-step weighting matrix

chi2(38) = 29.4428

Prob > chi2 = 0.8386

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-5.6476** Prob > |z| = **0.0000**
H0: no autocorrelation of order 2: z = **0.0944** Prob > |z| = **0.9248**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.93785072**
Step 2 f(b) = **.56162514**

Fitting reduced model 2:

Step 1 f(b) = **.38007926**

Group variable: **mun_id** Number of obs = **754**
Time variable: **year** Number of groups = **74**

Moment conditions: linear = **63** Obs per group: min = **1**
nonlinear = **0** avg = **10.18919**
total = **63** max = **13**

(Std. err. adjusted for **74** clusters in **mun_id**)

l_rpc_main_bcl	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_main_bcl						
L1.	.2826328	.0646573	4.37	0.000	.1559067	.4093588
L2.	.0086506	.0706254	0.12	0.903	-.1297726	.1470738
elec_t	-.0455719	.1519399	-0.30	0.764	-.3433686	.2522247
Age	-.0448046	.0237602	-1.89	0.059	-.0913737	.0017646
sex						
Male	.2345308	.4508569	0.52	0.603	-.6491324	1.118194
k_12centers	-.0039999	.0039831	-1.00	0.315	-.0118067	.0038069
gdp	3.94e-08	3.21e-08	1.23	0.219	-2.34e-08	1.02e-07
interest_rate	-.0084654	.047523	-0.18	0.859	-.1016088	.0846779
debt	-.0206431	.0198935	-1.04	0.299	-.0596336	.0183475
deficit	-1.61e-07	2.45e-07	-0.66	0.511	-6.42e-07	3.19e-07
party_type						
National	4.416583	2.577879	1.71	0.087	-.6359677	9.469134
Provincial	3.234577	7.441597	0.43	0.664	-11.35069	17.81984
win_margin	.0555959	.0306862	1.81	0.070	-.0045479	.1157397
abstentionism	-.0707374	.038917	-1.82	0.069	-.1470133	.0055386
pop_share014	.0262528	.0500668	0.52	0.600	-.0718762	.1243819
pop_share65plus	-.0321265	.1736702	-0.18	0.853	-.3725138	.3082607
_cons	5.400052	2.894879	1.87	0.062	-.2738058	11.07391

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.1_rpc_main_bcl L2.L2.1_rpc_main_bcl L3.L2.1_rpc_main_bcl
L4.L2.1_rpc_main_bcl L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex
L4.2.sex L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp
L2.gdp L3.gdp L4.gdp L2.interest_rate L2.debt L3.debt L4.debt L1.deficit
L2.deficit L3.deficit L4.deficit L1.2bn.party_type L2.2bn.party_type
L3.2bn.party_type L4.2bn.party_type L1.3.party_type L2.3.party_type
L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin L3.win_margin
L4.win_margin L1.abstentionism L2.abstentionism L3.abstentionism
L4.abstentionism L1.pop_share014 L2.pop_share014 L3.pop_share014
L4.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus
L4.pop_share65plus

2, model(level):

D.L.1_rpc_main_bcl D.L2.1_rpc_main_bcl D.elec_t D.Age D.2.sex D.k_12centers
D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix $\chi^2(48) = 41.5603$
 Prob > $\chi^2 = 0.7325$

2-step moment functions, 3-step weighting matrix $\chi^2(48) = 53.3957$
 Prob > $\chi^2 = 0.2746$

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: $z = -5.5334$ Prob > $|z| = 0.0000$
 H0: no autocorrelation of order 2: $z = 0.1129$ Prob > $|z| = 0.9101$

Generalized method of moments estimation

Fitting full model:

Step 1 $f(b) = .22428886$

Step 2 $f(b) = .11875381$

Fitting reduced model 2:

Step 1 $f(b) = 6.195e-23$

Group variable: **mun_id** Number of obs = 860
 Time variable: **year** Number of groups = 79

Moment conditions: linear = 25 Obs per group: min = 1
 nonlinear = 0 avg = 10.88608
 total = 25 max = 14

(Std. err. adjusted for 79 clusters in **mun_id**)

	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_main_bcl						
l_rpc_main_bcl						
L1.	.4123398	.0849141	4.86	0.000	.2459112	.5787683
elec_t						
--.	-.0590843	.339337	-0.17	0.862	-.7241725	.6060039
L1.	-.1202251	.3145886	-0.38	0.702	-.7368074	.4963571
Age	-.0205639	.0241109	-0.85	0.394	-.0678203	.0266926
sex						
Male	-.5755756	.490928	-1.17	0.241	-1.537777	.3866256
k_12centers	-.0080754	.004983	-1.62	0.105	-.0178419	.001691
gdp	1.81e-08	2.97e-08	0.61	0.543	-4.02e-08	7.63e-08
interest_rate	-.0487805	.0851589	-0.57	0.567	-.2156888	.1181278
debt	-.0227969	.0285557	-0.80	0.425	-.078765	.0331713
deficit	9.31e-08	5.90e-07	0.16	0.875	-1.06e-06	1.25e-06
party_type						
National	-.6116575	2.267909	-0.27	0.787	-5.056677	3.833362
Provincial	32.4833	20.30271	1.60	0.110	-7.309294	72.27589
win_margin	.0145695	.0201389	0.72	0.469	-.024902	.054041
abstentionism	-.0015056	.0477477	-0.03	0.975	-.0950894	.0920781
pop_share014	-.0033363	.080184	-0.04	0.967	-.160494	.1538214
pop_share65plus	-.0101237	.365134	-0.03	0.978	-.7257732	.7055258
_cons	6.981011	3.695069	1.89	0.059	-.2611907	14.22321

Instruments corresponding to the linear moment conditions:

1, model(diff):

 L1.L1.l_rpc_main_bcl L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
 L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
 L1.abstentionism L1.pop_share014 L1.pop_share65plus

2, model(level):

 D.L1.l_rpc_main_bcl D.elec_t D.L.elec_t D.Age D.2.sex D.k_12centers D.gdp
 D.interest_rate D.debt D.deficit

3, model(level):

 _cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

```

1, model(diff):
  L1.L.1_rpc_main_bcl L2.L.1_rpc_main_bcl L1.Age L2.Age L1.2.sex L2.2.sex
  L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
  L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
  L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
  L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
  L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
2, model(level):
  D.L.1_rpc_main_bcl D.elec_t D.L.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(24) = **14.8782**
Prob > chi2 = **0.9243**

2-step moment functions, 3-step weighting matrix chi2(24) = **35.8444**
Prob > chi2 = **0.0568**

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-5.8952** Prob > |z| = **0.0000**
H0: no autocorrelation of order 2: z = **-0.3167** Prob > |z| = **0.7515**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.6310257**
Step 2 f(b) = **.39028714**

Fitting reduced model 2:

Step 1 f(b) = **.18875118**

Group variable: **mun_id** Number of obs = **860**
Time variable: **year** Number of groups = **79**

Moment conditions: linear = **53** Obs per group: min = **1**
 nonlinear = **0** avg = **10.88608**
 total = **53** max = **14**

(Std. err. adjusted for **79** clusters in **mun_id**)

l_rpc_main_bcl	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_main_bcl						
L1.	.3222354	.0760168	4.24	0.000	.1732452	.4712256
elec t						
--.	-.0817026	.2288849	-0.36	0.721	-.5303087	.3669035
L1.	-.0947223	.2487541	-0.38	0.703	-.5822715	.3928268
Age	-.0257871	.021064	-1.22	0.221	-.0670717	.0154976
sex						
Male	-.2326511	.3821715	-0.61	0.543	-.9816936	.5163913
k_12centers	-.0064972	.0026847	-2.42	0.016	-.0117591	-.0012353
gdp	1.58e-08	2.23e-08	0.71	0.478	-2.79e-08	5.95e-08
interest_rate	-.0320884	.0565451	-0.57	0.570	-.1429148	.078738
debt	-.0097144	.0131204	-0.74	0.459	-.0354299	.016001
deficit	-1.53e-07	2.96e-07	-0.52	0.605	-7.34e-07	4.28e-07
party_type						
National	2.128231	2.163581	0.98	0.325	-2.11231	6.368772
Provincial	14.69374	15.1572	0.97	0.332	-15.01382	44.4013
win_margin	.0157846	.0272118	0.58	0.562	-.0375495	.0691187
abstentionism	-.0383925	.0355805	-1.08	0.281	-.108129	.031344
pop_share014	.0370159	.0432243	0.86	0.392	-.0477022	.1217339
pop_share65plus	.0083615	.1631529	0.05	0.959	-.3114124	.3281354
_cons	4.856847	2.278256	2.13	0.033	.3915473	9.322146

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L1_rpc_main_bcl L2.L1_rpc_main_bcl L3.L1_rpc_main_bcl L1.Age L2.Age
L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
L3.k_12centers L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate
L3.interest_rate L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit
L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L1.3.party_type
L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
L1.abstentionism L2.abstentionism L3.abstentionism L1.pop_share014
L2.pop_share014 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus
L3.pop_share65plus

```

2, model(level):
  D.L1_rpc_main_bcl D.elec_t D.L.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(38)    =    30.8327
                                                         Prob > chi2 =    0.7889

```

```

2-step moment functions, 3-step weighting matrix      chi2(38)    =    37.9129
                                                         Prob > chi2 =    0.4735

```

Arellano-Bond test for autocorrelation of the first-differenced residuals

```

H0: no autocorrelation of order 1:      z =    -5.8480    Prob > |z| =    0.0000
H0: no autocorrelation of order 2:      z =    -0.2424    Prob > |z| =    0.8085

```

Generalized method of moments estimation

Fitting full model:

```

Step 1      f(b) =    .86517662
Step 2      f(b) =    .51905666

```

Fitting reduced model 2:

```

Step 1      f(b) =    .34098102

```

```

Group variable: mun_id      Number of obs      =    860
Time variable:  year      Number of groups   =    79

```

```

Moment conditions:      linear =    64      Obs per group:   min =    1
                        nonlinear =    0      avg =   10.88608
                        total =    64      max =    14

```

(Std. err. adjusted for 79 clusters in mun_id)

l_rpc_main_bcl	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_main_bcl						
L1.	.3531543	.0634585	5.57	0.000	.228778	.4775307
elec_t						
L1.	.0642413	.1843399	0.35	0.727	-.2970582	.4255409
L1.	.0565603	.2181523	0.26	0.795	-.3710103	.4841309
Age	-.0313344	.0211349	-1.48	0.138	-.072758	.0100891
sex						
Male	-.1560794	.414353	-0.38	0.706	-.9681964	.6560375
k_12centers	-.0066284	.0029653	-2.24	0.025	-.0124402	-.0008165
gdp	1.48e-08	2.36e-08	0.63	0.529	-3.14e-08	6.10e-08
interest_rate	-.0318806	.0535945	-0.59	0.552	-.136924	.0731628
debt	-.0057525	.0135078	-0.43	0.670	-.0322273	.0207223
deficit	-2.46e-07	3.00e-07	-0.82	0.412	-8.35e-07	3.42e-07
party_type						
National	1.966332	1.928367	1.02	0.308	-1.813199	5.745862
Provincial	11.72939	13.23182	0.89	0.375	-14.20449	37.66327
win_margin	.0156756	.0270883	0.58	0.563	-.0374166	.0687678
abstentionism	-.0509808	.0308641	-1.65	0.099	-.1114734	.0095118
pop_share014	.053916	.0424463	1.27	0.204	-.0292772	.1371091
pop_share65plus	-.0864628	.1687566	-0.51	0.608	-.4172196	.244294
_cons	5.799684	2.317777	2.50	0.012	1.256925	10.34244

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L1_rpc_main_bcl L2.L1_rpc_main_bcl L3.L1_rpc_main_bcl
  L4.L1_rpc_main_bcl L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex
  L4.2.sex L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp

```

```

L2.gdp L3.gdp L4.gdp L2.interest_rate L1.debt L2.debt L3.debt L4.debt
L1.deficit L2.deficit L3.deficit L4.deficit L1.2bn.party_type
L2.2bn.party_type L3.2bn.party_type L4.2bn.party_type L1.3.party_type
L2.3.party_type L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin
L3.win_margin L4.win_margin L1.abstentionism L2.abstentionism
L3.abstentionism L4.abstentionism L1.pop_share014 L2.pop_share014
L3.pop_share014 L4.pop_share014 L1.pop_share65plus L2.pop_share65plus
L3.pop_share65plus L4.pop_share65plus
2, model(level):
  D.L1_rpc_main_bcl D.elec_t D.L.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(49)    =    41.0055
                                                         Prob > chi2 =    0.7846

```

```

2-step moment functions, 3-step weighting matrix      chi2(49)    =    51.7356
                                                         Prob > chi2 =    0.3675

```

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = -6.1768 Prob > |z| = 0.0000
H0: no autocorrelation of order 2: z = -0.0190 Prob > |z| = 0.9848

Generalized method of moments estimation

```

Fitting full model:
Step 1          f(b) =  .09432916
Step 2          f(b) =  .13601194

```

```

Group variable: mun_id          Number of obs      =    754
Time variable: year            Number of groups   =    74

```

```

Moment conditions:      linear =    26      Obs per group:   min =    1
                       nonlinear =    0      avg =   10.18919
                       total =    26      max =    13

```

(Std. err. adjusted for 74 clusters in mun_id)

l_rpc_main_bcl	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_main_bcl						
L1.	.3520497	.0758734	4.64	0.000	.2033405	.500759
L2.	.0281754	.0826878	0.34	0.733	-.1338898	.1902406
elec_t						
L1.	-.1675808	.2956343	-0.57	0.571	-.7470135	.4118518
L2.	-.0705441	.2828895	-0.25	0.803	-.6249973	.4839092
Age	-.0156285	.0300751	-0.52	0.603	-.0745745	.0433175
sex						
Male	-.084609	.5095453	-0.17	0.868	-1.0833	.9140815
k_12centers	-.0045685	.004673	-0.98	0.328	-.0137274	.0045904
gdp	4.50e-08	5.70e-08	0.79	0.430	-6.67e-08	1.57e-07
interest_rate	-.0267735	.0728182	-0.37	0.713	-.1694944	.1159475
debt	-.0399903	.0262744	-1.52	0.128	-.0914872	.0115065
deficit	1.29e-07	4.26e-07	0.30	0.761	-7.05e-07	9.64e-07
party_type						
National	2.442413	2.572298	0.95	0.342	-2.599199	7.484025
Provincial	28.15488	39.77685	0.71	0.479	-49.80631	106.1161
win_margin	.0675274	.0477518	1.41	0.157	-.0260645	.1611192
abstentionism	-.0187062	.0545959	-0.34	0.732	-.1257123	.0882999
pop_share014	.0091352	.0728147	0.13	0.900	-.133579	.1518494
pop_share65plus	.194982	.2887365	0.68	0.499	-.3709312	.7608953
_cons	2.343904	4.909496	0.48	0.633	-7.278532	11.96634

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L2.1_rpc main_bcl L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
  L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
  L1.abstentionism L1.pop_share014 L1.pop_share65plus
2, model(level):
  D.L.1_rpc main_bcl D.L2.1_rpc main_bcl D.elec_t D.L.elec_t D.Age D.2.sex
  D.k_12centers D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(10)      =    10.0649
                                                        Prob > chi2    =    0.4348

```

```

2-step moment functions, 3-step weighting matrix      chi2(10)      =    16.0722
                                                        Prob > chi2    =    0.0976

```

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -5.8611 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = -0.5887 Prob > |z| = 0.5560

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .29773893

Step 2 f(b) = .23340531

Fitting reduced model 2:

Step 1 f(b) = .05252196

Group variable: mun_id

Number of obs = 754

Time variable: year

Number of groups = 74

```

Moment conditions:      linear =      40      Obs per group:      min =      1
                        nonlinear =      0                        avg =    10.18919
                        total =      40                        max =      13

```

(Std. err. adjusted for 74 clusters in mun_id)

l_rpc_main_bcl	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_main_bcl						
L1.	.3231614	.0653185	4.95	0.000	.1951395	.4511833
L2.	.0236966	.0645272	0.37	0.713	-.1027743	.1501676
elec_t						
--.	-.1808385	.2584886	-0.70	0.484	-.6874668	.3257898
L1.	-.093699	.2905832	-0.32	0.747	-.6632316	.4758337
Age	-.0119423	.0257739	-0.46	0.643	-.0624581	.0385736
sex						
Male	.0036428	.4199086	0.01	0.993	-.8193631	.8266486
k_12centers	-.002887	.0048432	-0.60	0.551	-.0123796	.0066056
gdp	3.60e-08	3.21e-08	1.12	0.262	-2.69e-08	9.88e-08
interest_rate	-.0002821	.0651079	-0.00	0.997	-.1278912	.1273271
debt	-.0284658	.0189919	-1.50	0.134	-.0656893	.0087577
deficit	1.59e-08	3.76e-07	0.04	0.966	-7.20e-07	7.52e-07
party_type						
National	3.214763	1.654984	1.94	0.052	-.0289456	6.458472
Provincial	15.54432	16.28143	0.95	0.340	-16.36669	47.45533
win_margin	.0558868	.0389627	1.43	0.151	-.0204787	.1322522
abstentionism	-.0290924	.0407144	-0.71	0.475	-.1088911	.0507064
pop_share014	.0159773	.0604321	0.26	0.791	-.1024674	.134422
pop_share65plus	.2036037	.2375975	0.86	0.391	-.2620789	.6692862

_cons	1.266394	2.902041	0.44	0.663	-4.421501	6.954289
--------------	-----------------	-----------------	-------------	--------------	------------------	-----------------

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L2.1_rpc_main_bcl L2.L2.1_rpc_main_bcl L1.Age L2.Age L1.2.sex L2.2.sex
  L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
  L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
  L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
  L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
  L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
2, model(level):
  D.L.1_rpc_main_bcl D.L2.1_rpc_main_bcl D.elec_t D.L.elec_t D.Age D.2.sex
  D.k_12centers D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(24) = **17.2720**
 Prob > chi2 = **0.8368**

2-step moment functions, 3-step weighting matrix chi2(24) = **21.9517**
 Prob > chi2 = **0.5822**

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-5.8312** Prob > |z| = **0.0000**

H0: no autocorrelation of order 2: z = **-0.3513** Prob > |z| = **0.7254**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.69664351**

Step 2 f(b) = **.34090299**

Fitting reduced model 2:

Step 1 f(b) = **.16716385**

Group variable: **mun_id**

Number of obs = **754**

Time variable: **year**

Number of groups = **74**

Moment conditions: linear = **54** Obs per group: min = **1**
 nonlinear = **0** avg = **10.18919**
 total = **54** max = **13**

(Std. err. adjusted for **74** clusters in **mun_id**)

	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_main_bcl						
l_rpc_main_bcl						
L1.	.25181	.0571091	4.41	0.000	.1398783	.3637417
L2.	-.0071355	.054981	-0.13	0.897	-.1148964	.1006253
elec_t						
--.	.0419141	.1896309	0.22	0.825	-.3297555	.4135837
L1.	.1403482	.2055956	0.68	0.495	-.2626118	.5433082
Age	-.0408126	.0227924	-1.79	0.073	-.085485	.0038597
sex						
Male	.2187774	.4104571	0.53	0.594	-.5857037	1.023259
k_12centers	-.0053393	.0039321	-1.36	0.175	-.0130462	.0023675
gdp	4.40e-08	2.90e-08	1.52	0.129	-1.28e-08	1.01e-07
interest_rate	.026282	.0596965	0.44	0.660	-.090721	.143285
debt	-.0129697	.0179993	-0.72	0.471	-.0482476	.0223083
deficit	-2.52e-07	2.98e-07	-0.85	0.397	-8.35e-07	3.31e-07
party_type						
National	4.515844	2.625786	1.72	0.085	-.6306015	9.66229
Provincial	.8048253	7.723234	0.10	0.917	-14.33244	15.94209

win_margin	.0256201	.0299547	0.86	0.392	-.03309	.0843302
abstentionism	-.0821132	.0314783	-2.61	0.009	-.1438094	-.0204169
pop_share014	.0469765	.0428734	1.10	0.273	-.0370539	.1310068
pop_share65plus	-.0837471	.1603119	-0.52	0.601	-.3979527	.2304585
_cons	5.401084	2.559637	2.11	0.035	.3842879	10.41788

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L2.1_rpc_main_bcl L2.L2.1_rpc_main_bcl L3.L2.1_rpc_main_bcl L1.Age
  L2.Age L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
  L3.k_12centers L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate
  L3.interest_rate L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit
  L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L1.3.party_type
  L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
  L1.abstentionism L2.abstentionism L3.abstentionism L1.pop_share014
  L2.pop_share014 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus
  L3.pop_share65plus
2, model(level):
  D.L.1_rpc_main_bcl D.L2.1_rpc_main_bcl D.elec_t D.L.elec_t D.Age D.2.sex
  D.k_12centers D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(38) = 25.2268
 Prob > chi2 = 0.9444

2-step moment functions, 3-step weighting matrix chi2(38) = 28.7489
 Prob > chi2 = 0.8608

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -5.7032 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = 0.2440 Prob > |z| = 0.8072

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .94490711

Step 2 f(b) = .56755785

Fitting reduced model 2:

Step 1 f(b) = .37528749

Group variable: mun_id Number of obs = 754

Time variable: year Number of groups = 74

Moment conditions: linear = 64 Obs per group: min = 1
 nonlinear = 0 avg = 10.18919
 total = 64 max = 13

(Std. err. adjusted for 74 clusters in mun_id)

l_rpc_main_bcl	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_main_bcl						
L1.	.2903644	.0654475	4.44	0.000	.1620896	.4186392
L2.	-.0022119	.0651468	-0.03	0.973	-.1298973	.1254734
elec_t						
--.	-.0916668	.2012594	-0.46	0.649	-.4861279	.3027943
L1.	-.0701392	.2141086	-0.33	0.743	-.4897844	.349506
Age	-.0455748	.0241681	-1.89	0.059	-.0929434	.0017939
sex						
Male	.2106186	.4583024	0.46	0.646	-.6876377	1.108875
k_12centers	-.0040215	.0041452	-0.97	0.332	-.0121459	.0041029
gdp	3.91e-08	3.29e-08	1.19	0.235	-2.54e-08	1.04e-07
interest_rate	-.0198206	.056923	-0.35	0.728	-.1313877	.0917464

debt	-.0234607	.0212156	-1.11	0.269	-.0650425	.0181212
deficit	-8.99e-08	3.30e-07	-0.27	0.785	-7.37e-07	5.57e-07
party_type						
National	4.618105	2.592251	1.78	0.075	-.4626131	9.698824
Provincial	3.65658	7.352693	0.50	0.619	-10.75443	18.06759
win_margin	.0529313	.029447	1.80	0.072	-.0047838	.1106465
abstentionism	-.0705691	.0398053	-1.77	0.076	-.1485861	.0074479
pop_share014	.0169628	.0567108	0.30	0.765	-.0941883	.128114
pop_share65plus	-.0148122	.2018433	-0.07	0.941	-.4104178	.3807934
_cons	5.750547	2.813572	2.04	0.041	.2360474	11.26505

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.1_rpc_main_bcl L2.L2.1_rpc_main_bcl L3.L2.1_rpc_main_bcl
L4.L2.1_rpc_main_bcl L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex
L4.2.sex L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp
L2.gdp L3.gdp L4.gdp L2.interest_rate L2.debt L3.debt L4.debt L1.deficit
L2.deficit L3.deficit L4.deficit L1.2bn.party_type L2.2bn.party_type
L3.2bn.party_type L4.2bn.party_type L1.3.party_type L2.3.party_type
L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin L3.win_margin
L4.win_margin L1.abstentionism L2.abstentionism L3.abstentionism
L4.abstentionism L1.pop_share014 L2.pop_share014 L3.pop_share014
L4.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus
L4.pop_share65plus

2, model(level):

D.L.1_rpc_main_bcl D.L2.1_rpc_main_bcl D.elec_t D.L.elec_t D.Age D.2.sex
D.k_12centers D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(48) = 41.9993
Prob > chi2 = 0.7161

2-step moment functions, 3-step weighting matrix chi2(48) = 56.9531
Prob > chi2 = 0.1763

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -5.5531 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = 0.2473 Prob > |z| = 0.8047

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .4664606

Step 2 f(b) = .24072552

Fitting reduced model 2:

Step 1 f(b) = 1.062e-22

Group variable: mun_id

Number of obs = 890

Time variable: year

Number of groups = 80

Moment conditions: linear = 24 Obs per group: min = 2
 nonlinear = 0 avg = 11.125
 total = 24 max = 14

(Std. err. adjusted for 80 clusters in **mun_id**)

l_rpc_cap_roads	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_roads						
L1.	.3389127	.0706968	4.79	0.000	.2003496	.4774758
elec_t	-.1518841	.1753932	-0.87	0.387	-.4956485	.1918803
Age	.009238	.0299524	0.31	0.758	-.0494675	.0679436
sex						
Male	.4741095	.7644417	0.62	0.535	-1.024169	1.972388
k_12centers	-.0051396	.0041194	-1.25	0.212	-.0132135	.0029342
gdp	9.79e-08	4.82e-08	2.03	0.042	3.47e-09	1.92e-07
interest_rate	.0429423	.0578909	0.74	0.458	-.0705217	.1564063
debt	.0242191	.0197387	1.23	0.220	-.014468	.0629062
deficit	-3.16e-07	2.93e-07	-1.08	0.280	-8.91e-07	2.58e-07
party_type						
National	1.276657	1.4791	0.86	0.388	-1.622327	4.17564
Provincial	-1.72284	10.39458	-0.17	0.868	-22.09584	18.65016
win_margin	-.007646	.0303718	-0.25	0.801	-.0671736	.0518817
abstentionism	.0270096	.0359737	0.75	0.453	-.0434976	.0975169
pop_share014	.2736484	.0816823	3.35	0.001	.113554	.4337427
pop_share65plus	.0116923	.3482012	0.03	0.973	-.6707694	.6941541
_cons	-8.880521	4.088546	-2.17	0.030	-16.89392	-.8671175

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L1_rpc_cap_roads L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
 L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
 L1.abstentionism L1.pop_share014 L1.pop_share65plus

2, model(level):

D.L1_rpc_cap_roads D.elec_t D.Age D.2.sex D.k_12centers D.gdp
 D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(10) = **19.2580**
 Prob > chi2 = **0.0371**

2-step moment functions, 3-step weighting matrix chi2(10) = **19.1172**
 Prob > chi2 = **0.0388**

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-4.9221** Prob > |z| = **0.0000**H0: no autocorrelation of order 2: z = **2.1554** Prob > |z| = **0.0311**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.83645489**Step 2 f(b) = **.46283179**

Fitting reduced model 2:

Step 1 f(b) = **.22187486**Group variable: **mun_id**Number of obs = **890**Time variable: **year**Number of groups = **80**

Moment conditions: linear = **38** Obs per group: min = **2**
 nonlinear = **0** avg = **11.125**
 total = **38** max = **14**

(Std. err. adjusted for 80 clusters in **mun_id**)

l_rpc_cap_roads	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_roads						
L1.	.3099575	.0673945	4.60	0.000	.1778668	.4420483
elec_t	-.0775316	.1821997	-0.43	0.670	-.4346365	.2795734
Age	.0089709	.0306197	0.29	0.770	-.0510425	.0689844
sex						
Male	.4940084	.7124803	0.69	0.488	-.9024274	1.890444
k_12centers	-.0048181	.0038842	-1.24	0.215	-.012431	.0027948
gdp	1.03e-07	3.66e-08	2.83	0.005	3.17e-08	1.75e-07
interest_rate	.0335188	.053978	0.62	0.535	-.0722762	.1393137
debt	.0086533	.0170823	0.51	0.612	-.0248273	.0421339
deficit	-7.27e-08	2.59e-07	-0.28	0.779	-5.80e-07	4.35e-07
party_type						
National	.389809	1.533051	0.25	0.799	-2.614916	3.394534
Provincial	.0347723	7.622384	0.00	0.996	-14.90483	14.97437
win_margin	-.0152142	.0331295	-0.46	0.646	-.0801469	.0497186
abstentionism	-.0324195	.0341592	-0.95	0.343	-.0993704	.0345314
pop_share014	.2953662	.0857368	3.45	0.001	.127325	.4634073
pop_share65plus	-.0054708	.33336	-0.02	0.987	-.6588444	.6479027
_cons	-3.338733	4.322645	-0.77	0.440	-11.81096	5.133496

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L1_rpc_cap_roads L2.L1_rpc_cap_roads L1.Age L2.Age L1.2.sex L2.2.sex
 L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
 L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
 L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
 L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
 L2.pop_share014 L1.pop_share65plus L2.pop_share65plus

2, model(level):

D.L1_rpc_cap_roads D.elec_t D.Age D.2.sex D.k_12centers D.gdp
 D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(24) = **37.0265**
 Prob > chi2 = **0.0435**

2-step moment functions, 3-step weighting matrix chi2(24) = **38.2186**
 Prob > chi2 = **0.0329**

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-4.9144** Prob > |z| = **0.0000**H0: no autocorrelation of order 2: z = **1.9408** Prob > |z| = **0.0523**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **1.0143371**Step 2 f(b) = **.53926994**

Fitting reduced model 2:

Step 1 f(b) = **.3470479**

Group variable: **mun_id** Number of obs = **890**
 Time variable: **year** Number of groups = **80**

Moment conditions: linear = **52** Obs per group: min = **2**
 nonlinear = **0** avg = **11.125**
 total = **52** max = **14**

Moment conditions: linear = 62 Obs per group: min = 2
 nonlinear = 0 avg = 11.125
 total = 62 max = 14

(Std. err. adjusted for 80 clusters in **mun_id**)

l_rpc_cap_roads	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_roads						
L1.	.3437687	.0646839	5.31	0.000	.2169907	.4705468
elec_t	-.0422167	.1644081	-0.26	0.797	-.3644506	.2800172
Age	.0144909	.0246469	0.59	0.557	-.0338162	.0627979
sex						
Male	.3059817	.5407945	0.57	0.572	-.7539561	1.365919
k_12centers	-.0033962	.002697	-1.26	0.208	-.0086822	.0018897
gdp	8.62e-08	3.14e-08	2.74	0.006	2.46e-08	1.48e-07
interest_rate	.0160759	.0401372	0.40	0.689	-.0625917	.0947434
debt	.0061417	.013423	0.46	0.647	-.0201669	.0324504
deficit	-5.23e-08	2.20e-07	-0.24	0.812	-4.84e-07	3.80e-07
party_type						
National	-.3463709	1.167121	-0.30	0.767	-2.633887	1.941145
Provincial	-2.473025	5.689242	-0.43	0.664	-13.62373	8.677685
win_margin	-.0175193	.0243704	-0.72	0.472	-.0652843	.0302457
abstentionism	-.0631329	.0302845	-2.08	0.037	-.1224895	-.0037764
pop_share014	.2638013	.0673813	3.92	0.000	.1317364	.3958662
pop_share65plus	-.0867686	.1961966	-0.44	0.658	-.4713069	.2977697
_cons	.8227772	4.095708	0.20	0.841	-7.204663	8.850217

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L.1_rpc_cap_roads L2.L.1_rpc_cap_roads L3.L.1_rpc_cap_roads
 L4.L.1_rpc_cap_roads L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex
 L4.2.sex L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp
 L2.gdp L3.gdp L4.gdp L2.interest_rate L1.debt L2.debt L3.debt L4.debt
 L1.deficit L2.deficit L3.deficit L4.deficit L1.2bn.party_type
 L2.2bn.party_type L3.2bn.party_type L4.2bn.party_type L1.3.party_type
 L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
 L4.win_margin L1.abstentionism L2.abstentionism L3.abstentionism
 L4.abstentionism L1.pop_share014 L2.pop_share014 L3.pop_share014
 L4.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus
 L4.pop_share65plus

2, model(level):

D.L.1_rpc_cap_roads D.elec_t D.Age D.2.sex D.k_12centers D.gdp
 D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(48) = 50.6082
 Prob > chi2 = 0.3710

2-step moment functions, 3-step weighting matrix chi2(48) = 57.5122
 Prob > chi2 = 0.1635

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -4.8800 Prob > |z| = 0.0000
 H0: no autocorrelation of order 2: z = 1.9778 Prob > |z| = 0.0480

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .10812638
 Step 2 f(b) = .0812656

Fitting reduced model 2:

Step 1 f(b) = **2.360e-23**Group variable: **mun_id**Number of obs = **787**Time variable: **year**Number of groups = **80**

Moment conditions:

linear =	25
nonlinear =	0
total =	25

Obs per group:

min =	1
avg =	9.8375
max =	13

(Std. err. adjusted for **80** clusters in **mun_id**)

l_rpc_cap_roads	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_roads						
L1.	.4325428	.0672028	6.44	0.000	.3008278	.5642577
L2.	.1261539	.0539951	2.34	0.019	.0203255	.2319824
elec_t	.1297747	.16636	0.78	0.435	-.1962849	.4558344
Age	.0204306	.0236215	0.86	0.387	-.0258667	.0667278
sex						
Male	1.060876	.6423558	1.65	0.099	-.1981183	2.31987
k_12centers	-.0018069	.0032824	-0.55	0.582	-.0082403	.0046265
gdp	-2.15e-08	6.86e-08	-0.31	0.754	-1.56e-07	1.13e-07
interest_rate	.1372473	.0678885	2.02	0.043	.0041883	.2703062
debt	.0317934	.0187508	1.70	0.090	-.0049575	.0685443
deficit	-2.72e-07	1.98e-07	-1.38	0.169	-6.60e-07	1.15e-07
party_type						
National	-2.376577	1.197545	-1.98	0.047	-4.723721	-.0294326
Provincial	-10.67434	8.389324	-1.27	0.203	-27.11712	5.768429
win_margin	-.037143	.0264896	-1.40	0.161	-.0890617	.0147757
abstentionism	-.074883	.0375371	-1.99	0.046	-.1484544	-.0013117
pop_share014	.1442183	.0637806	2.26	0.024	.0192106	.269226
pop_share65plus	-.0757078	.221707	-0.34	0.733	-.5102454	.3588299
_cons	4.025171	4.717831	0.85	0.394	-5.221608	13.27195

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.l_rpc_cap_roads L1.Age L1.2.sex L1.k_12centers L1.gdp
 L1.interest_rate L1.debt L1.deficit L1.2bn.party_type L1.3.party_type
 L1.win_margin L1.abstentionism L1.pop_share014 L1.pop_share65plus

2, model(level):

D.L.l_rpc_cap_roads D.L2.l_rpc_cap_roads D.elec_t D.Age D.2.sex
 D.k_12centers D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(10) = **6.5012**
 Prob > chi2 = **0.7715**

2-step moment functions, 3-step weighting matrix chi2(10) = **10.2301**
 Prob > chi2 = **0.4205**

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-4.2907** Prob > |z| = **0.0000**H0: no autocorrelation of order 2: z = **-0.2632** Prob > |z| = **0.7924**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.38119698**Step 2 f(b) = **.28342343**

Fitting reduced model 2:

Step 1 f(b) = .14326546

Group variable: **mun_id** Number of obs = 787
 Time variable: **year** Number of groups = 80

Moment conditions: linear = 39 Obs per group: min = 1
 nonlinear = 0 avg = 9.8375
 total = 39 max = 13

(Std. err. adjusted for 80 clusters in **mun_id**)

l_rpc_cap_roads	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_roads						
L1.	.4040382	.0781102	5.17	0.000	.250945	.5571314
L2.	.1881222	.0629696	2.99	0.003	.0647039	.3115404
elec_t	-.0322026	.1397866	-0.23	0.818	-.3061792	.241774
Age	.0031843	.0233153	0.14	0.891	-.0425128	.0488815
sex						
Male	1.099996	.601688	1.83	0.068	-.0792905	2.279283
k_12centers	-.0051826	.0041299	-1.25	0.210	-.0132772	.0029119
gdp	9.96e-08	3.74e-08	2.66	0.008	2.63e-08	1.73e-07
interest_rate	.0332406	.0542167	0.61	0.540	-.0730223	.1395035
debt	.0014269	.0172624	0.08	0.934	-.0324068	.0352605
deficit	-1.79e-07	1.99e-07	-0.90	0.368	-5.69e-07	2.11e-07
party_type						
National	-2.150099	1.618793	-1.33	0.184	-5.322876	1.022677
Provincial	-12.75653	9.075233	-1.41	0.160	-30.54366	5.030602
win_margin	-.0240298	.0316294	-0.76	0.447	-.0860223	.0379627
abstentionism	-.0630031	.0281283	-2.24	0.025	-.1181335	-.0078726
pop_share014	.2194737	.0735321	2.98	0.003	.0753534	.363594
pop_share65plus	-.2593042	.2906526	-0.89	0.372	-.8289728	.3103644
_cons	2.673391	4.646434	0.58	0.565	-6.433453	11.78024

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.1_rpc_cap_roads L2.L2.1_rpc_cap_roads L1.Age L2.Age L1.2.sex L2.2.sex
 L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
 L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
 L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
 L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
 L2.pop_share014 L1.pop_share65plus L2.pop_share65plus

2, model(level):

D.L.1_rpc_cap_roads D.L2.1_rpc_cap_roads D.elec_t D.Age D.2.sex
 D.k_12centers D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(24) = 22.6739
 Prob > chi2 = 0.5391

2-step moment functions, 3-step weighting matrix chi2(24) = 28.8892
 Prob > chi2 = 0.2243

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -4.1598 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = -1.2417 Prob > |z| = 0.2143

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .47817878

Step 2 f(b) = .32821522

Fitting reduced model 2:

Step 1 f(b) = .19857563

Group variable: **mun_id**

Number of obs = 787

Time variable: **year**

Number of groups = 80

Moment conditions: linear = 53

Obs per group: min = 1

nonlinear = 0

avg = 9.8375

total = 53

max = 13

(Std. err. adjusted for 80 clusters in **mun_id**)

l_rpc_cap_roads	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_roads						
L1.	.4091241	.0695538	5.88	0.000	.2728012	.545447
L2.	.171679	.0561062	3.06	0.002	.0617129	.2816451
elec_t	-.0292755	.1320962	-0.22	0.825	-.2881794	.2296283
Age	-.006081	.01754	-0.35	0.729	-.0404588	.0282968
sex						
Male	.9580776	.352275	2.72	0.007	.2676312	1.648524
k_12centers	-.0051948	.0031678	-1.64	0.101	-.0114036	.001014
gdp	1.01e-07	3.31e-08	3.06	0.002	3.65e-08	1.66e-07
interest_rate	.0125312	.0414704	0.30	0.763	-.0687493	.0938117
debt	.0029087	.0133858	0.22	0.828	-.023327	.0291444
deficit	-1.66e-07	1.67e-07	-1.00	0.320	-4.93e-07	1.61e-07
party_type						
National	-2.256806	1.490766	-1.51	0.130	-5.178653	.6650416
Provincial	-12.26072	6.916238	-1.77	0.076	-25.8163	1.294852
win_margin	-.0328368	.0253257	-1.30	0.195	-.0824742	.0168006
abstentionism	-.0667329	.022953	-2.91	0.004	-.1117201	-.0217458
pop_share014	.2223203	.0710622	3.13	0.002	.0830409	.3615997
pop_share65plus	-.3109251	.1689894	-1.84	0.066	-.6421382	.020288
_cons	4.130409	4.228003	0.98	0.329	-4.156325	12.41714

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.1_rpc_cap_roads L2.L2.1_rpc_cap_roads L3.L2.1_rpc_cap_roads L1.Age
 L2.Age L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
 L3.k_12centers L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate
 L3.interest_rate L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit
 L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L1.3.party_type
 L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
 L1.abstentionism L2.abstentionism L3.abstentionism L1.pop_share014
 L2.pop_share014 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus
 L3.pop_share65plus

2, model(level):

D.L.1_rpc_cap_roads D.L2.1_rpc_cap_roads D.elec_t D.Age D.2.sex
 D.k_12centers D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix

chi2(38) = 26.2572

Prob > chi2 = 0.9249

2-step moment functions, 3-step weighting matrix

chi2(38) = 37.2259

Prob > chi2 = 0.5051

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-4.1519** Prob > |z| = **0.0000**
H0: no autocorrelation of order 2: z = **-0.9856** Prob > |z| = **0.3243**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.61329333**
Step 2 f(b) = **.4736226**

Fitting reduced model 2:

Step 1 f(b) = **.31573879**

Group variable: **mun_id** Number of obs = **787**
Time variable: **year** Number of groups = **80**

Moment conditions: linear = **62** Obs per group: min = **1**
nonlinear = **0** avg = **9.8375**
total = **62** max = **13**

(Std. err. adjusted for **80** clusters in **mun_id**)

l_rpc_cap_roads	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_roads						
L1.	.4219358	.0586718	7.19	0.000	.3069412	.5369304
L2.	.162633	.0610284	2.66	0.008	.0430195	.2822465
elec_t	-.0720032	.1308717	-0.55	0.582	-.328507	.1845006
Age	-.0087319	.0189515	-0.46	0.645	-.0458762	.0284124
sex						
Male	.8675231	.3137247	2.77	0.006	.252634	1.482412
k_12centers	-.0039286	.0025306	-1.55	0.121	-.0088885	.0010312
gdp	1.04e-07	2.92e-08	3.55	0.000	4.64e-08	1.61e-07
interest_rate	-.0076973	.0338617	-0.23	0.820	-.074065	.0586705
debt	.0004588	.0129233	0.04	0.972	-.0248703	.025788
deficit	-1.86e-07	1.71e-07	-1.09	0.276	-5.21e-07	1.49e-07
party_type						
National	-1.126627	1.026024	-1.10	0.272	-3.137597	.884343
Provincial	-10.46898	6.572344	-1.59	0.111	-23.35054	2.412581
win_margin	.0060441	.0281491	0.21	0.830	-.049127	.0612153
abstentionism	-.061351	.0221807	-2.77	0.006	-.1048245	-.0178776
pop_share014	.2103267	.0539953	3.90	0.000	.1044979	.3161555
pop_share65plus	-.3177335	.1443773	-2.20	0.028	-.6007079	-.0347592
_cons	3.012702	3.541347	0.85	0.395	-3.928211	9.953615

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.1_rpc_cap_roads L2.L2.1_rpc_cap_roads L3.L2.1_rpc_cap_roads
L4.L2.1_rpc_cap_roads L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex
L3.2.sex L4.2.sex L1.k_12centers L2.k_12centers L3.k_12centers
L4.k_12centers L1.gdp L2.gdp L3.gdp L4.gdp L2.interest_rate L2.debt L3.debt
L4.debt L1.deficit L2.deficit L3.deficit L4.deficit L1.2bn.party_type
L2.2bn.party_type L3.2bn.party_type L4.2bn.party_type L1.3.party_type
L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
L4.win_margin L1.abstentionism L2.abstentionism L3.abstentionism
L4.abstentionism L1.pop_share014 L2.pop_share014 L3.pop_share014
L4.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus
L4.pop_share65plus

2, model(level):

D.L.1_rpc_cap_roads D.L2.1_rpc_cap_roads D.elec_t D.Age D.2.sex
D.k_12centers D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(47) = 37.8898
 Prob > chi2 = 0.8260

2-step moment functions, 3-step weighting matrix chi2(47) = 48.4195
 Prob > chi2 = 0.4154

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -4.2546 Prob > |z| = 0.0000
 H0: no autocorrelation of order 2: z = -0.8133 Prob > |z| = 0.4160

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .4835453
 Step 2 f(b) = .23961959

Fitting reduced model 2:

Step 1 f(b) = 1.359e-21

Group variable: **mun_id** Number of obs = 890
 Time variable: **year** Number of groups = 80

Moment conditions: linear = 25 Obs per group: min = 2
 nonlinear = 0 avg = 11.125
 total = 25 max = 14

(Std. err. adjusted for 80 clusters in **mun_id**)

l_rpc_cap_roads	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_roads						
L1.	.3456099	.0726752	4.76	0.000	.203169	.4880507
elec_t						
--.	-.1244432	.2614692	-0.48	0.634	-.6369134	.3880271
L1.	.016961	.2604958	0.07	0.948	-.4936014	.5275235
Age	.009327	.0300387	0.31	0.756	-.0495477	.0682018
sex						
Male	.4150777	.7509129	0.55	0.580	-1.056684	1.88684
k_12centers	-.0048619	.0040253	-1.21	0.227	-.0127513	.0030276
gdp	9.21e-08	4.39e-08	2.10	0.036	6.06e-09	1.78e-07
interest_rate	.0509666	.0692831	0.74	0.462	-.0848258	.1867591
debt	.0225024	.0242616	0.93	0.354	-.0250494	.0700542
deficit	-3.16e-07	3.99e-07	-0.79	0.428	-1.10e-06	4.67e-07
party_type						
National	1.206341	1.418933	0.85	0.395	-1.574715	3.987398
Provincial	-1.553656	11.05085	-0.14	0.888	-23.21293	20.10562
win_margin	-.0063134	.0300861	-0.21	0.834	-.0652812	.0526544
abstentionism	.0269059	.0364787	0.74	0.461	-.0445911	.0984028
pop_share014	.2735625	.0838519	3.26	0.001	.1092157	.4379093
pop_share65plus	.0687691	.3479066	0.20	0.843	-.6131153	.7506535
_cons	-9.0799	4.204824	-2.16	0.031	-17.3212	-.8385969

Instruments corresponding to the linear moment conditions:

1, model(diff):
 L1.L1.l_rpc_cap_roads L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
 L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
 L1.abstentionism L1.pop_share014 L1.pop_share65plus
 2, model(level):
 D.L1.l_rpc_cap_roads D.elec_t D.L.elec_t D.Age D.2.sex D.k_12centers D.gdp
 D.interest_rate D.debt D.deficit
 3, model(level):
 _cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(10) = 19.1696
 Prob > chi2 = 0.0382

2-step moment functions, 3-step weighting matrix chi2(10) = 18.9176
 Prob > chi2 = 0.0413

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -4.8722 Prob > |z| = 0.0000
 H0: no autocorrelation of order 2: z = 2.1701 Prob > |z| = 0.0300

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .91678569
 Step 2 f(b) = .45123473

Fitting reduced model 2:

Step 1 f(b) = .21572588

Group variable: **mun_id** Number of obs = 890
 Time variable: **year** Number of groups = 80

Moment conditions: linear = 39 Obs per group: min = 2
 nonlinear = 0 avg = 11.125
 total = 39 max = 14

(Std. err. adjusted for 80 clusters in **mun_id**)

l_rpc_cap_roads	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_roads						
L1.	.3180165	.0706672	4.50	0.000	.1795115	.4565216
elec_t						
--.	-.1491486	.2283694	-0.65	0.514	-.5967444	.2984473
L1.	-.1828621	.2083776	-0.88	0.380	-.5912747	.2255506
Age	.0124743	.0268466	0.46	0.642	-.0401441	.0650926
sex						
Male	.3672795	.6858259	0.54	0.592	-.9769146	1.711474
k_12centers	-.0032648	.0038192	-0.85	0.393	-.0107502	.0042206
gdp	8.03e-08	3.32e-08	2.42	0.016	1.52e-08	1.45e-07
interest_rate	.0199862	.0541641	0.37	0.712	-.0861735	.126146
debt	.0005399	.0171161	0.03	0.975	-.0330071	.0340869
deficit	7.94e-08	3.00e-07	0.26	0.791	-5.09e-07	6.67e-07
party_type						
National	.1778904	1.390798	0.13	0.898	-2.548024	2.903805
Provincial	2.467485	6.416909	0.38	0.701	-10.10943	15.0444
win_margin	-.00453	.0313813	-0.14	0.885	-.0660362	.0569762
abstentionism	-.0303133	.0345877	-0.88	0.381	-.0981039	.0374773
pop_share014	.2513653	.0929866	2.70	0.007	.0691149	.4336157
pop_share65plus	.1683218	.2805247	0.60	0.548	-.3814964	.71814
_cons	-2.433272	4.603993	-0.53	0.597	-11.45693	6.590389

Instruments corresponding to the linear moment conditions:

1, model(diff):

 L1.L1.rpc_cap_roads L2.L1.rpc_cap_roads L1.Age L2.Age L1.2.sex L2.2.sex
 L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
 L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
 L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
 L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
 L2.pop_share014 L1.pop_share65plus L2.pop_share65plus

2, model(level):

 D.L1.rpc_cap_roads D.elec_t D.L.elec_t D.Age D.2.sex D.k_12centers D.gdp
 D.interest_rate D.debt D.deficit

3, model(level):

 _cons

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(24) = 36.0988
Prob > chi2 = 0.0537

2-step moment functions, 3-step weighting matrix chi2(24) = 39.6542
Prob > chi2 = 0.0233

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -4.7734 Prob > |z| = 0.0000
H0: no autocorrelation of order 2: z = 1.8065 Prob > |z| = 0.0708

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = 1.0388858
Step 2 f(b) = .58429716

Fitting reduced model 2:

Step 1 f(b) = .34103171

Group variable: **mun_id** Number of obs = 890
Time variable: **year** Number of groups = 80

Moment conditions: linear = 53 Obs per group: min = 2
 nonlinear = 0 avg = 11.125
 total = 53 max = 14

(Std. err. adjusted for 80 clusters in **mun_id**)

l_rpc_cap_roads	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_roads						
L1.	.3402113	.0664879	5.12	0.000	.2098974	.4705252
elec_t						
--.	-.0407569	.2158911	-0.19	0.850	-.4638958	.382382
L1.	-.0882234	.2017936	-0.44	0.662	-.4837317	.3072849
Age	-.0022718	.0212997	-0.11	0.915	-.0440185	.0394748
sex						
Male	.4027456	.5596146	0.72	0.472	-.694079	1.49957
k_12centers	-.0043306	.0041986	-1.03	0.302	-.0125598	.0038986
gdp	8.30e-08	3.79e-08	2.19	0.028	8.80e-09	1.57e-07
interest_rate	.0161973	.0527672	0.31	0.759	-.0872244	.1196191
debt	.0057787	.0166694	0.35	0.729	-.0268928	.0384502
deficit	4.40e-08	3.00e-07	0.15	0.884	-5.45e-07	6.33e-07
party_type						
National	-.9438593	1.236791	-0.76	0.445	-3.367925	1.480206
Provincial	-2.915873	6.229304	-0.47	0.640	-15.12508	9.293339
win_margin	-.029386	.0278669	-1.05	0.292	-.0840041	.0252321
abstentionism	-.06756	.0340699	-1.98	0.047	-.1343358	-.0007841
pop_share014	.249264	.0884814	2.82	0.005	.0758436	.4226844
pop_share65plus	-.0517013	.2201688	-0.23	0.814	-.4832241	.3798215
_cons	2.935895	4.065461	0.72	0.470	-5.032261	10.90405

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L1_rpc_cap_roads L2.L1_rpc_cap_roads L3.L1_rpc_cap_roads L1.Age
L2.Age L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
L3.k_12centers L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate
L3.interest_rate L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit
L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L1.3.party_type
L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
L1.abstentionism L2.abstentionism L3.abstentionism L1.pop_share014
L2.pop_share014 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus
L3.pop_share65plus

```

2, model(level):
    D.L1_rpc_cap_roads D.elec_t D.L.elec_t D.Age D.2.sex D.k_12centers D.gdp
    D.interest_rate D.debt D.deficit
3, model(level):
    _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(38)      =    46.7438
                                                         Prob > chi2    =    0.1562

```

```

2-step moment functions, 3-step weighting matrix      chi2(38)      =    50.1070
                                                         Prob > chi2    =    0.0904

```

Arellano-Bond test for autocorrelation of the first-differenced residuals

```

H0: no autocorrelation of order 1:      z =    -4.8258    Prob > |z|    =    0.0000
H0: no autocorrelation of order 2:      z =     1.8685    Prob > |z|    =    0.0617

```

Generalized method of moments estimation

Fitting full model:

```

Step 1      f(b) =    1.162468
Step 2      f(b) =    .6666225

```

Fitting reduced model 2:

```

Step 1      f(b) =    .4722264

```

```

Group variable: mun_id      Number of obs      =    890
Time variable:  year      Number of groups     =    80

```

```

Moment conditions:      linear =    63      Obs per group:      min =    2
                        nonlinear =    0      avg =    11.125
                        total =    63      max =    14

```

(Std. err. adjusted for 80 clusters in mun_id)

l_rpc_cap_roads	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_roads						
L1.	.3662185	.0668224	5.48	0.000	.235249	.497188
elec_t						
--.	-.0984471	.200931	-0.49	0.624	-.4922646	.2953703
L1.	-.1155174	.1758253	-0.66	0.511	-.4601285	.2290938
Age	.0037098	.0224299	0.17	0.869	-.040252	.0476716
sex						
Male	.2502416	.5316364	0.47	0.638	-.7917466	1.29223
k_12centers	-.0021057	.0029081	-0.72	0.469	-.0078055	.003594
gdp	8.69e-08	3.42e-08	2.54	0.011	2.00e-08	1.54e-07
interest_rate	-.0084042	.0457279	-0.18	0.854	-.0980293	.0812209
debt	.0022242	.0148029	0.15	0.881	-.0267889	.0312374
deficit	8.39e-08	2.80e-07	0.30	0.765	-4.66e-07	6.33e-07
party_type						
National	-.621386	1.140152	-0.55	0.586	-2.856043	1.613271
Provincial	-3.956884	5.930789	-0.67	0.505	-15.58102	7.667248
win_margin	-.0121031	.0256454	-0.47	0.637	-.0623672	.038161
abstentionism	-.0624334	.0335648	-1.86	0.063	-.1282192	.0033523
pop_share014	.2295784	.0731199	3.14	0.002	.0862661	.3728908
pop_share65plus	-.1266105	.2064234	-0.61	0.540	-.531193	.2779721
_cons	2.935089	3.725856	0.79	0.431	-4.367454	10.23763

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
    L1.L1_rpc_cap_roads L2.L1_rpc_cap_roads L3.L1_rpc_cap_roads
    L4.L1_rpc_cap_roads L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex
    L4.2.sex L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp

```

```

L2.gdp L3.gdp L4.gdp L2.interest_rate L1.debt L2.debt L3.debt L4.debt
L1.deficit L2.deficit L3.deficit L4.deficit L1.2bn.party_type
L2.2bn.party_type L3.2bn.party_type L4.2bn.party_type L1.3.party_type
L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
L4.win_margin L1.abstentionism L2.abstentionism L3.abstentionism
L4.abstentionism L1.pop_share014 L2.pop_share014 L3.pop_share014
L4.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus
L4.pop_share65plus
2, model(level):
  D.L1_rpc_cap_roads D.elec_t D.L.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(48)    =    53.3298
                                                         Prob > chi2 =    0.2767

```

```

2-step moment functions, 3-step weighting matrix      chi2(48)    =    62.2748
                                                         Prob > chi2 =    0.0808

```

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = -4.9339 Prob > |z| = 0.0000
H0: no autocorrelation of order 2: z = 1.9132 Prob > |z| = 0.0557

Generalized method of moments estimation

```

Fitting full model:
Step 1            f(b) =   .10404414
Step 2            f(b) =   .08256059

```

```

Group variable: mun_id                                    Number of obs                =        787
Time variable: year                                      Number of groups            =        80

```

```

Moment conditions:       linear =        26        Obs per group:    min =        1
                         nonlinear =        0                                avg =       9.8375
                         total =        26                                max =        13

```

(Std. err. adjusted for 80 clusters in mun_id)

	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_roads						
l_rpc_cap_roads						
L1.	.4287342	.0669051	6.41	0.000	.2976026	.5598658
L2.	.1229481	.0542225	2.27	0.023	.0166739	.2292222
elec_t						
L1.	.0554223	.2012838	0.28	0.783	-.3390867	.4499312
L2.	-.0986041	.1831821	-0.54	0.590	-.4576344	.2604263
Age	.0222339	.0234427	0.95	0.343	-.0237129	.0681807
sex						
Male	.9934631	.6570789	1.51	0.131	-.2943879	2.281314
k_12centers	-.0014727	.00322	-0.46	0.647	-.0077838	.0048385
gdp	-2.57e-08	6.46e-08	-0.40	0.691	-1.52e-07	1.01e-07
interest_rate	.1225688	.0628244	1.95	0.051	-.0005649	.2457024
debt	.0297446	.01869	1.59	0.112	-.0068871	.0663763
deficit	-1.95e-07	2.39e-07	-0.81	0.415	-6.64e-07	2.74e-07
party_type						
National	-2.340115	1.186968	-1.97	0.049	-4.666529	-.0137014
Provincial	-9.460226	8.427744	-1.12	0.262	-25.9783	7.057848
win_margin	-.0373178	.0259052	-1.44	0.150	-.0880912	.0134555
abstentionism	-.0733157	.0361803	-2.03	0.043	-.1442278	-.0024037
pop_share014	.1343515	.0663882	2.02	0.043	.004233	.26447
pop_share65plus	-.0402614	.2231591	-0.18	0.857	-.4776452	.3971224
_cons	4.330503	4.649207	0.93	0.352	-4.781775	13.44278

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.l_rpc_cap_roads L1.Age L1.2.sex L1.k_12centers L1.gdp
 L1.interest_rate L1.debt L1.deficit L1.2bn.party_type L1.3.party_type
 L1.win_margin L1.abstentionism L1.pop_share014 L1.pop_share65plus

2, model(level):

D.L.l_rpc_cap_roads D.L2.l_rpc_cap_roads D.elec_t D.L.elec_t D.Age D.2.sex
 D.k_12centers D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(10) = **6.6048**
 Prob > chi2 = **0.7621**

2-step moment functions, 3-step weighting matrix chi2(10) = **9.6743**
 Prob > chi2 = **0.4695**

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-4.3165** Prob > |z| = **0.0000**H0: no autocorrelation of order 2: z = **-0.2567** Prob > |z| = **0.7974**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.40736006**Step 2 f(b) = **.30915692**

Fitting reduced model 2:

Step 1 f(b) = **.1431194**Group variable: **mun_id**Number of obs = **787**Time variable: **year**Number of groups = **80**

Moment conditions: linear = **40** Obs per group: min = **1**
 nonlinear = **0** avg = **9.8375**
 total = **40** max = **13**

(Std. err. adjusted for **80** clusters in **mun_id**)

l_rpc_cap_roads	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_roads						
L1.	.4105015	.082574	4.97	0.000	.2486595	.5723435
L2.	.1854982	.0663519	2.80	0.005	.0554509	.3155456
elec_t						
--.	-.0212437	.2089395	-0.10	0.919	-.4307576	.3882701
L1.	-.021539	.2084153	-0.10	0.918	-.4300255	.3869476
Age	.0059932	.0231363	0.26	0.796	-.0393532	.0513396
sex						
Male	.9420868	.6420005	1.47	0.142	-.3162109	2.200385
k_12centers	-.0040339	.0036348	-1.11	0.267	-.011158	.0030902
gdp	8.49e-08	3.89e-08	2.18	0.029	8.60e-09	1.61e-07
interest_rate	.0403979	.0606466	0.67	0.505	-.0784673	.1592631
debt	-.001151	.0173734	-0.07	0.947	-.0352023	.0329002
deficit	-1.65e-07	2.49e-07	-0.66	0.508	-6.53e-07	3.24e-07
party_type						
National	-2.522707	1.721793	-1.47	0.143	-5.89736	.8519461
Provincial	-11.00346	8.125083	-1.35	0.176	-26.92833	4.921408
win_margin	-.0243769	.0330329	-0.74	0.461	-.0891202	.0403663
abstentionism	-.0611022	.028535	-2.14	0.032	-.1170299	-.0051746
pop_share014	.2001891	.0815349	2.46	0.014	.0403836	.3599946
pop_share65plus	-.1445145	.2755333	-0.52	0.600	-.6845499	.3955209

_cons	2.897934	4.92168	0.59	0.556	-6.748382	12.54425
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Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L2.1_rpc_cap_roads L2.L2.1_rpc_cap_roads L1.Age L2.Age L1.2.sex L2.2.sex
  L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
  L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
  L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
  L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
  L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
2, model(level):
  D.L.1_rpc_cap_roads D.L2.1_rpc_cap_roads D.elec_t D.L.elec_t D.Age D.2.sex
  D.k_12centers D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(24) = 24.7326
 Prob > chi2 = 0.4204

2-step moment functions, 3-step weighting matrix chi2(24) = 29.9434
 Prob > chi2 = 0.1866

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -4.1658 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = -1.1573 Prob > |z| = 0.2472

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .55295363

Step 2 f(b) = .41634218

Fitting reduced model 2:

Step 1 f(b) = .19743776

Group variable: **mun_id**

Number of obs = 787

Time variable: **year**

Number of groups = 80

Moment conditions: linear = 54 Obs per group: min = 1
 nonlinear = 0 avg = 9.8375
 total = 54 max = 13

(Std. err. adjusted for 80 clusters in **mun_id**)

	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_roads						
l_rpc_cap_roads						
L1.	.4380825	.0783591	5.59	0.000	.2845015	.5916635
L2.	.1852048	.0600094	3.09	0.002	.0675886	.302821
elec_t						
--.	-.0901186	.2282075	-0.39	0.693	-.5373971	.3571598
L1.	-.073207	.2183671	-0.34	0.737	-.5011985	.3547846
Age	.0057033	.0185549	0.31	0.759	-.0306635	.0420702
sex						
Male	.8021653	.3480855	2.30	0.021	.1199302	1.4844
k_12centers	-.0051331	.0033916	-1.51	0.130	-.0117805	.0015144
gdp	1.00e-07	3.70e-08	2.71	0.007	2.77e-08	1.73e-07
interest_rate	-.0033687	.0484047	-0.07	0.945	-.0982403	.0915028
debt	-.0006984	.0151566	-0.05	0.963	-.0304047	.029008
deficit	-1.37e-07	2.49e-07	-0.55	0.583	-6.25e-07	3.52e-07
party_type						
National	-2.539462	1.655137	-1.53	0.125	-5.783472	.7045474
Provincial	-11.18138	6.896538	-1.62	0.105	-24.69835	2.335585

win_margin	-.0525932	.0249141	-2.11	0.035	-.101424	-.0037624
abstentionism	-.0545795	.0285818	-1.91	0.056	-.1105987	.0014397
pop_share014	.2172493	.0751831	2.89	0.004	.0698932	.3646054
pop_share65plus	-.2655711	.2562423	-1.04	0.300	-.7677968	.2366545
_cons	3.152624	4.6191	0.68	0.495	-5.900646	12.20589

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.1_rpc_cap_roads L2.L2.1_rpc_cap_roads L3.L2.1_rpc_cap_roads L1.Age
 L2.Age L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
 L3.k_12centers L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate
 L3.interest_rate L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit
 L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L1.3.party_type
 L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
 L1.abstentionism L2.abstentionism L3.abstentionism L1.pop_share014
 L2.pop_share014 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus
 L3.pop_share65plus

2, model(level):

D.L.1_rpc_cap_roads D.L2.1_rpc_cap_roads D.elec_t D.L.elec_t D.Age D.2.sex
 D.k_12centers D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(38) = 33.3074
 Prob > chi2 = 0.6861

2-step moment functions, 3-step weighting matrix chi2(38) = 41.4396
 Prob > chi2 = 0.3230

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -4.2528 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = -1.0624 Prob > |z| = 0.2881

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .70876923

Step 2 f(b) = .54817678

Fitting reduced model 2:

Step 1 f(b) = .31120458

Group variable: mun_id Number of obs = 787
 Time variable: year Number of groups = 80

Moment conditions: linear = 63 Obs per group: min = 1
 nonlinear = 0 avg = 9.8375
 total = 63 max = 13

(Std. err. adjusted for 80 clusters in mun_id)

l_rpc_cap_roads	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_roads						
L1.	.4564703	.0608094	7.51	0.000	.337286	.5756545
L2.	.182585	.0620007	2.94	0.003	.0610659	.304104
elec_t						
--.	-.1027598	.2114055	-0.49	0.627	-.517107	.3115873
L1.	-.0384777	.2172628	-0.18	0.859	-.4643049	.3873494
Age	.0031532	.0182706	0.17	0.863	-.0326566	.038963
sex						
Male	.7596701	.3523224	2.16	0.031	.0691308	1.450209
k_12centers	-.0039317	.0028896	-1.36	0.174	-.0095953	.0017319
gdp	1.03e-07	3.26e-08	3.14	0.002	3.86e-08	1.66e-07
interest_rate	-.0215566	.0415515	-0.52	0.604	-.1029961	.0598829

debt	-.0027852	.0150669	-0.18	0.853	-.0323158	.0267453
deficit	-1.79e-07	2.50e-07	-0.71	0.475	-6.68e-07	3.11e-07
party_type						
National	-1.537514	1.064692	-1.44	0.149	-3.624272	.5492443
Provincial	-9.573104	6.250942	-1.53	0.126	-21.82473	2.678518
win_margin	-.0184085	.0271118	-0.68	0.497	-.0715467	.0347296
abstentionism	-.0467383	.0272178	-1.72	0.086	-.1000841	.0066075
pop_share014	.2089283	.0627628	3.33	0.001	.0859154	.3319411
pop_share65plus	-.2820346	.2260923	-1.25	0.212	-.7251675	.1610982
_cons	1.783749	3.773748	0.47	0.636	-5.612661	9.180158

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.1_rpc_cap_roads L2.L2.1_rpc_cap_roads L3.L2.1_rpc_cap_roads
 L4.L2.1_rpc_cap_roads L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex
 L3.2.sex L4.2.sex L1.k 12centers L2.k 12centers L3.k 12centers
 L4.k 12centers L1.gdp L2.gdp L3.gdp L4.gdp L2.interest_rate L2.debt L3.debt
 L4.debt L1.deficit L2.deficit L3.deficit L4.deficit L1.2bn.party_type
 L2.2bn.party_type L3.2bn.party_type L4.2bn.party_type L1.3.party_type
 L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
 L4.win_margin L1.abstentionism L2.abstentionism L3.abstentionism
 L4.abstentionism L1.pop_share014 L2.pop_share014 L3.pop_share014
 L4.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus
 L4.pop_share65plus

2, model(level):

D.L.1_rpc_cap_roads D.L2.1_rpc_cap_roads D.elec_t D.L.elec_t D.Age D.2.sex
 D.k 12centers D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(47) = 43.8541
 Prob > chi2 = 0.6036

2-step moment functions, 3-step weighting matrix chi2(47) = 55.5259
 Prob > chi2 = 0.1843

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -4.3501 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = -0.9564 Prob > |z| = 0.3389

21.

22. * POR SI DA TIEMPO DE REVISAR

23. ds l_rpc_*

```

l_rpc_remu      l_rpc_d_go~s  l_rpc_remu~s  l_rpc_rent~s  l_rpc_cap~t  l_rpc_cap~f  l_
> rpc_sala~s
>
>      l_rpc_sub~l
>
>      l_rpc_publ~y
>
>      l_rpc_main~l
l_rpc_serv      l_rpc_tota~s  l_rpc_remu~v  l_rpc_serv~f  l_rpc_main~e  l_rpc_cap~i  l_
> rpc_ext~e
>      l_rpc_rent~f
>
>      l_rpc_acti~s
>
>      l_rpc_cap~s

```

24. foreach v in `r(varlist)'{

2. forvalues z = 1/2{

3. forvalues lag = 1/4{

```

4.      xtdpdgmm L(0/\`z').\`v' elec_t l_rpc_total_expenses ${contr
> oles_exo} ${controles_pre}, ///
> gmm(L(\`z').\`v' ${controles_exo} ${controles_pre} l_rpc_total
> _expenses, l(1 \`lag') c m(d)) ///
> iv(L(1/\`z').\`v' elec_t ${controles_exo}, d) two vce(r) overi
> d collapse

```

5. estat overid // sargan test

6. estat serial, ar(1/2) // for serial correlation

7. }

8. }

9. }

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .00867572

Step 2 f(b) = .30939921

Fitting reduced model 2:

Step 1 f(b) = 6.161e-20

Group variable: **mun_id**

Number of obs = 1125

Time variable: **year**

Number of groups = 81

Moment conditions:	linear =	25	Obs per group:	min =	11
	nonlinear =	0		avg =	13.88889
	total =	25		max =	14

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_remu	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_remu						
L1.	.599039	.251087	2.39	0.017	.1069176	1.09116
elec_t	-.0399081	.0236769	-1.69	0.092	-.0863139	.0064977
l_rpc_total_expenses	-.0703631	.3284078	-0.21	0.830	-.7140305	.5733043
Age	.0035862	.0036207	0.99	0.322	-.0035101	.0106826
sex						
Male	-.1114331	.0788322	-1.41	0.157	-.2659412	.0430751
k_12centers	-.0010293	.0014345	-0.72	0.473	-.0038409	.0017823
gdp	2.68e-08	1.99e-08	1.35	0.178	-1.22e-08	6.59e-08
interest_rate	-.0089308	.0085985	-1.04	0.299	-.0257835	.0079219
debt	-.0080303	.0033758	-2.38	0.017	-.0146468	-.0014138
deficit	5.80e-08	3.07e-08	1.89	0.059	-2.25e-09	1.18e-07
party_type						
National	.1667387	.2172195	0.77	0.443	-.2590036	.5924811
Provincial	3.578949	3.04696	1.17	0.240	-2.392984	9.550882
win_margin	-.0003979	.0033532	-0.12	0.906	-.00697	.0061742
abstentionism	.0116597	.0062734	1.86	0.063	-.000636	.0239554
pop_share014	.0136674	.021204	0.64	0.519	-.0278918	.0552266
pop_share65plus	.073775	.0405717	1.82	0.069	-.0057441	.1532941
_cons	3.315129	4.49666	0.74	0.461	-5.498162	12.12842

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L1_rpc_remu L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate

L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin

L1.abstentionism L1.pop_share014 L1.pop_share65plus L1.l_rpc_total_expenses

2, model(level):

D.L1_rpc_remu D.elec_t D.Age D.2.sex D.k_12centers D.gdp D.interest_rate

D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix	chi2(10)	=	25.0613
	Prob > chi2	=	0.0052

2-step moment functions, 3-step weighting matrix	chi2(10)	=	36.0461
	Prob > chi2	=	0.0001

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -2.7908 Prob > |z| = 0.0053

H0: no autocorrelation of order 2: z = -0.4457 Prob > |z| = 0.6558

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .0170388

Step 2 f(b) = .53437566

Fitting reduced model 2:

Step 1 f(b) = .36178753

Group variable: **mun_id** Number of obs = 1125Time variable: **year** Number of groups = 81

Moment conditions:	linear =	40	Obs per group:	min =	11
	nonlinear =	0		avg =	13.88889
	total =	40		max =	14

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_remu	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_remu L1.	.6056692	.1662344	3.64	0.000	.2798557	.9314826
elec_t	-.0310567	.017846	-1.74	0.082	-.0660341	.0039207
l_rpc_total_expenses	.0643392	.064225	1.00	0.316	-.0615395	.1902179
Age	.0017412	.0029695	0.59	0.558	-.0040788	.0075612
sex						
Male	-.0157891	.0628005	-0.25	0.801	-.1388757	.1072975
k_12centers	-.0006243	.0004484	-1.39	0.164	-.0015032	.0002545
gdp	2.08e-08	5.33e-09	3.91	0.000	1.04e-08	3.12e-08
interest_rate	-.0076677	.0056399	-1.36	0.174	-.0187217	.0033863
debt	-.0060096	.0012294	-4.89	0.000	-.0084192	-.0035999
deficit	4.84e-08	2.26e-08	2.14	0.032	4.09e-09	9.27e-08
party_type						
National	.304733	.1678082	1.82	0.069	-.024165	.6336311
Provincial	1.107699	1.609935	0.69	0.491	-2.047715	4.263113
win_margin	-.0022946	.0040995	-0.56	0.576	-.0103294	.0057402
abstentionism	.007909	.0035466	2.23	0.026	.0009578	.0148603
pop_share014	.0116243	.0124182	0.94	0.349	-.012715	.0359635
pop_share65plus	.049062	.0179206	2.74	0.006	.0139383	.0841858
_cons	1.577281	1.440225	1.10	0.273	-1.245508	4.40007

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L1.rpc_remu L2.L1.rpc_remu L1.Age L2.Age L1.2.sex L2.2.sex
 L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
 L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
 L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
 L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
 L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
 L1.l_rpc_total_expenses L2.l_rpc_total_expenses

2, model(level):

D.L1.rpc_remu D.elec_t D.Age D.2.sex D.k_12centers D.gdp D.interest_rate
 D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix	chi2(25)	=	43.2844
	Prob > chi2	=	0.0130

2-step moment functions, 3-step weighting matrix	chi2(25)	=	49.6940
	Prob > chi2	=	0.0023

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-3.5012** Prob > |z| = **0.0005**
H0: no autocorrelation of order 2: z = **-0.2040** Prob > |z| = **0.8384**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.0331581**
Step 2 f(b) = **.67541086**

Fitting reduced model 2:

Step 1 f(b) = **.64801414**

Group variable: **mun_id** Number of obs = **1125**
Time variable: **year** Number of groups = **81**

Moment conditions: linear = **54** Obs per group: min = **11**
nonlinear = **0** avg = **13.88889**
total = **54** max = **14**

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_remu	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_remu						
L1.	.6172997	.1402181	4.40	0.000	.3424772	.8921222
elec_t	-.0173649	.0161184	-1.08	0.281	-.0489565	.0142266
l_rpc_total_expenses	.1175321	.1157737	1.02	0.310	-.1093801	.3444444
Age	.0027681	.0026881	1.03	0.303	-.0025004	.0080366
sex						
Male	.0169804	.0534146	0.32	0.751	-.0877102	.121671
k_12centers	-.0000775	.0006379	-0.12	0.903	-.0013278	.0011728
gdp	1.58e-08	7.51e-09	2.11	0.035	1.11e-09	3.05e-08
interest_rate	-.0077647	.0057571	-1.35	0.177	-.0190484	.0035189
debt	-.005279	.0014027	-3.76	0.000	-.0080282	-.0025297
deficit	4.90e-08	2.18e-08	2.25	0.024	6.35e-09	9.17e-08
party_type						
National	.3554582	.1991312	1.79	0.074	-.0348317	.7457481
Provincial	-.591451	1.45739	-0.41	0.685	-3.447883	2.264981
win_margin	-.0027493	.0046368	-0.59	0.553	-.0118372	.0063386
abstentionism	.0044012	.0038789	1.13	0.257	-.0032012	.0120037
pop_share014	.0084371	.0131599	0.64	0.521	-.0173559	.0342301
pop_share65plus	.041042	.0255166	1.61	0.108	-.0089697	.0910537
_cons	.9038094	1.795267	0.50	0.615	-2.61485	4.422468

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L1.l_rpc_remu L2.L1.l_rpc_remu L3.L1.l_rpc_remu L1.Age L2.Age L3.Age
L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers L3.k_12centers
L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate L3.interest_rate
L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit L1.2bn.party_type
L2.2bn.party_type L3.2bn.party_type L1.3.party_type L2.3.party_type
L3.3.party_type L1.win_margin L2.win_margin L3.win_margin L1.abstentionism
L2.abstentionism L3.abstentionism L1.pop_share014 L2.pop_share014
L3.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus
L1.l_rpc_total_expenses L2.l_rpc_total_expenses L3.l_rpc_total_expenses

2, model(level):

D.L1.l_rpc_remu D.Age D.2.sex D.k_12centers D.gdp D.interest_rate D.debt
D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(39) = **54.7083**
 Prob > chi2 = **0.0487**

2-step moment functions, 3-step weighting matrix chi2(39) = **64.9626**
 Prob > chi2 = **0.0056**

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-3.4680** Prob > |z| = **0.0005**
 H0: no autocorrelation of order 2: z = **0.0688** Prob > |z| = **0.9452**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.0349751**
 Step 2 f(b) = **.79240414**

Fitting reduced model 2:

Step 1 f(b) = **.72952366**

Group variable: **mun_id** Number of obs = **1125**
 Time variable: **year** Number of groups = **81**

Moment conditions: linear = **65** Obs per group: min = **11**
 nonlinear = **0** avg = **13.88889**
 total = **65** max = **14**

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_remu	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_remu						
L1.	.6080439	.1237728	4.91	0.000	.3654536	.8506342
elec_t	-.0184048	.0159176	-1.16	0.248	-.0496027	.0127931
l_rpc_total_expenses	.1458967	.0957187	1.52	0.127	-.0417086	.333502
Age	.0018908	.0025581	0.74	0.460	-.003123	.0069045
sex						
Male	.0255274	.0569511	0.45	0.654	-.0860946	.1371494
k_12centers	-.0000117	.0006051	-0.02	0.985	-.0011977	.0011743
gdp	1.47e-08	6.52e-09	2.26	0.024	1.97e-09	2.75e-08
interest_rate	-.0038412	.00481	-0.80	0.425	-.0132686	.0055863
debt	-.0050567	.0014244	-3.55	0.000	-.0078484	-.002265
deficit	5.90e-08	2.27e-08	2.60	0.009	1.45e-08	1.04e-07
party_type						
National	.3552375	.2238072	1.59	0.112	-.0834166	.7938916
Provincial	.1183999	1.136412	0.10	0.917	-2.108926	2.345726
win_margin	-.0017495	.0020767	-0.84	0.400	-.0058198	.0023207
abstentionism	.004807	.0035593	1.35	0.177	-.0021691	.0117832
pop_share014	.0065247	.010277	0.63	0.526	-.0136178	.0266672
pop_share65plus	.0429695	.0242551	1.77	0.076	-.0045696	.0905086
_cons	.602546	1.565346	0.38	0.700	-2.465476	3.670568

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L1_rpc_remu L2.L1_rpc_remu L3.L1_rpc_remu L4.L1_rpc_remu L1.Age
 L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex L4.2.sex L1.k_12centers
 L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp L2.gdp L3.gdp L4.gdp
 L4.interest_rate L2.debt L3.debt L4.debt L1.deficit L2.deficit L3.deficit
 L4.deficit L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type
 L4.2bn.party_type L1.3.party_type L2.3.party_type L3.3.party_type
 L4.3.party_type L1.win_margin L2.win_margin L3.win_margin L4.win_margin
 L1.abstentionism L2.abstentionism L3.abstentionism L4.abstentionism
 L1.pop_share014 L2.pop_share014 L3.pop_share014 L4.pop_share014
 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus L4.pop_share65plus
 L1.l_rpc_total_expenses L2.l_rpc_total_expenses L3.l_rpc_total_expenses
 L4.l_rpc_total_expenses

2, model(level):

D.L1_rpc_remu D.Age D.2.sex D.k_12centers D.gdp D.interest_rate D.debt

```
D.deficit
3, model(level):
    _cons
```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

```
2-step moment functions, 2-step weighting matrix      chi2(50)    =    64.1847
                                                         Prob > chi2 =    0.0856
```

```
2-step moment functions, 3-step weighting matrix      chi2(50)    =    74.9987
                                                         Prob > chi2 =    0.0126
```

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = **-3.3703** Prob > |z| = **0.0008**
H0: no autocorrelation of order 2: z = **-0.0596** Prob > |z| = **0.9525**

Generalized method of moments estimation

```
Fitting full model:
Step 1          f(b) = .00884754
Step 2          f(b) = .17095371
```

```
Fitting reduced model 2:
Step 1          f(b) = 2.141e-19
```

```
Group variable: mun_id      Number of obs      =    1042
Time variable: year         Number of groups   =     81

Moment conditions:          linear =    26      Obs per group:   min =    10
                           nonlinear =    0      avg =   12.8642
                           total =    26      max =    13
```

(Std. err. adjusted for 81 clusters in mun_id)

l_rpc_remu	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_remu						
L1.	.7121338	.177434	4.01	0.000	.3643696	1.059898
L2.	.0717759	.0711767	1.01	0.313	-.0677279	.2112797
elec_t	-.0463117	.0174751	-2.65	0.008	-.0805623	-.0120611
l_rpc_total_expenses	.3620867	.3401965	1.06	0.287	-.3046862	1.02886
Age	.0045092	.0034005	1.33	0.185	-.0021556	.011174
sex						
Male	-.0338056	.0946528	-0.36	0.721	-.2193216	.1517105
k_12centers	.000568	.0010871	0.52	0.601	-.0015627	.0026986
gdp	1.27e-08	1.76e-08	0.72	0.469	-2.17e-08	4.72e-08
interest_rate	-.0110406	.0077973	-1.42	0.157	-.0263231	.0042419
debt	-.0118479	.0040937	-2.89	0.004	-.0198714	-.0038244
deficit	9.79e-08	2.39e-08	4.10	0.000	5.11e-08	1.45e-07
party_type						
National	.1990353	.3636131	0.55	0.584	-.5136332	.9117038
Provincial	-2.46143	3.811284	-0.65	0.518	-9.931408	5.008549
win_margin	-.0014847	.003289	-0.45	0.652	-.0079311	.0049617
abstentionism	.0121245	.0052697	2.30	0.021	.001796	.022453
pop_share014	.0071066	.0244129	0.29	0.771	-.0407418	.0549551
pop_share65plus	.0793115	.0271338	2.92	0.003	.0261301	.1324929
_cons	-4.62849	3.630713	-1.27	0.202	-11.74456	2.487577

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
    L1.L2.l_rpc_remu L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
    L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
    L1.abstentionism L1.pop_share014 L1.pop_share65plus L1.l_rpc_total_expenses
2, model(level):
    D.L.l_rpc_remu D.L2.l_rpc_remu D.elec_t D.Age D.2.sex D.k_12centers D.gdp
    D.interest_rate D.debt D.deficit
```



```
3, model(level):
    _cons
```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

```
2-step moment functions, 2-step weighting matrix      chi2(10)      =    13.8473
                                                         Prob > chi2    =    0.1801
```

```
2-step moment functions, 3-step weighting matrix      chi2(10)      =    19.4025
                                                         Prob > chi2    =    0.0354
```

Arellano-Bond test for autocorrelation of the first-differenced residuals

```
H0: no autocorrelation of order 1:      z =    -3.0876    Prob > |z|    =    0.0020
H0: no autocorrelation of order 2:      z =    -0.8559    Prob > |z|    =    0.3921
```

Generalized method of moments estimation

Fitting full model:

```
Step 1          f(b) =    .01766039
Step 2          f(b) =    .45582348
```

Fitting reduced model 2:

```
Step 1          f(b) =    .31647514
```

```
Group variable: mun_id          Number of obs      =    1042
Time variable: year            Number of groups   =    81
```

```
Moment conditions:      linear =    41      Obs per group:   min =    10
                        nonlinear =    0      avg          =   12.8642
                        total   =    41      max          =    13
```

(Std. err. adjusted for 81 clusters in mun_id)

l_rpc_remu	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_remu						
L1.	.537752	.1669475	3.22	0.001	.2105409	.8649632
L2.	-.0043825	.0884749	-0.05	0.960	-.1777901	.1690251
elec_t	-.0510637	.0170994	-2.99	0.003	-.084578	-.0175494
l_rpc_total_expenses	.3929695	.2225026	1.77	0.077	-.0431277	.8290666
Age	.0066627	.0027934	2.39	0.017	.0011877	.0121377
sex						
Male	.0054625	.076973	0.07	0.943	-.1454018	.1563268
k_12centers	.0013546	.0010706	1.27	0.206	-.0007437	.0034529
gdp	8.20e-09	9.35e-09	0.88	0.380	-1.01e-08	2.65e-08
interest_rate	-.0058489	.0047147	-1.24	0.215	-.0150896	.0033918
debt	-.0074354	.0018291	-4.07	0.000	-.0110204	-.0038504
deficit	8.71e-08	2.63e-08	3.31	0.001	3.55e-08	1.39e-07
party_type						
National	.2330552	.2050198	1.14	0.256	-.1687762	.6348865
Provincial	-4.120014	3.30159	-1.25	0.212	-10.59101	2.350982
win_margin	-.0017931	.0033752	-0.53	0.595	-.0084083	.0048221
abstentionism	.0083735	.005215	1.61	0.108	-.0018476	.0185947
pop_share014	-.0115993	.0184337	-0.63	0.529	-.0477287	.0245302
pop_share65plus	.0612999	.0233362	2.63	0.009	.0155618	.1070381
_cons	-2.194531	2.546017	-0.86	0.389	-7.184633	2.79557

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
    L1.L2.1_rpc_remu L2.L2.1_rpc_remu L1.Age L2.Age L1.2.sex L2.2.sex
    L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
    L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
    L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
    L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
    L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
    L1.1_rpc_total_expenses L2.1_rpc_total_expenses
```

```

2, model(level):
  D.L1_rpc_remu D.L2.1_rpc_remu D.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(25)    =    36.9217
                                                         Prob > chi2 =    0.0587

```

```

2-step moment functions, 3-step weighting matrix      chi2(25)    =    57.3220
                                                         Prob > chi2 =    0.0002

```

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = -2.9550 Prob > |z| = 0.0031
H0: no autocorrelation of order 2: z = 0.5534 Prob > |z| = 0.5800

Generalized method of moments estimation

```

Fitting full model:
Step 1          f(b) =   .02758602
Step 2          f(b) =   .62769963

```

```

Fitting reduced model 2:
Step 1          f(b) =   .50107893

```

```

Group variable:  mun_id          Number of obs      =    1042
Time variable:  year            Number of groups   =     81

```

```

Moment conditions:      linear =     54      Obs per group:   min =     10
                        nonlinear =    0      avg =    12.8642
                        total =    54      max =     13

```

(Std. err. adjusted for 81 clusters in mun_id)

l_rpc_remu	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_remu						
L1.	.5743648	.1107163	5.19	0.000	.3573649	.7913647
L2.	.0142567	.0867321	0.16	0.869	-.1557352	.1842485
elec_t	-.0293714	.0194335	-1.51	0.131	-.0674603	.0087176
l_rpc_total_expenses	.1589953	.1584206	1.00	0.316	-.1515034	.469494
Age	.0025976	.0024299	1.07	0.285	-.0021648	.0073601
sex						
Male	.0358964	.0578311	0.62	0.535	-.0774504	.1492432
k_12centers	.0003439	.000684	0.50	0.615	-.0009966	.0016844
gdp	1.60e-08	7.23e-09	2.21	0.027	1.83e-09	3.02e-08
interest_rate	-.0065899	.0047709	-1.38	0.167	-.0159407	.0027609
debt	-.0070988	.0017428	-4.07	0.000	-.0105146	-.003683
deficit	6.35e-08	2.64e-08	2.40	0.016	1.17e-08	1.15e-07
party_type						
National	.3467224	.2255033	1.54	0.124	-.095256	.7887007
Provincial	-2.253175	2.462215	-0.92	0.360	-7.079028	2.572678
win_margin	-.0020551	.004126	-0.50	0.618	-.010142	.0060317
abstentionism	.0023981	.0046287	0.52	0.604	-.0066739	.0114701
pop_share014	.0025194	.018131	0.14	0.889	-.0330168	.0380556
pop_share65plus	.0527027	.0283623	1.86	0.063	-.0028865	.1082919
_cons	.8288303	2.114921	0.39	0.695	-3.316339	4.974

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L2.1_rpc_remu L2.L2.1_rpc_remu L3.L2.1_rpc_remu L1.Age L2.Age L3.Age
  L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers L3.k_12centers
  L1.gdp L2.gdp L3.gdp L3.interest_rate L1.debt L2.debt L3.debt L1.deficit
  L2.deficit L3.deficit L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type

```

```

L1.3.party_type L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin
L3.win_margin L1.abstentionism L2.abstentionism L3.abstentionism
L1.pop_share014 L2.pop_share014 L3.pop_share014 L1.pop_share65plus
L2.pop_share65plus L3.pop_share65plus L1.l_rpc_total_expenses
L2.l_rpc_total_expenses L3.l_rpc_total_expenses
2, model(level):
  D.L1.rpc_remu D.L2.l_rpc_remu D.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(38) = **50.8437**
Prob > chi2 = **0.0795**

2-step moment functions, 3-step weighting matrix chi2(38) = **69.2111**
Prob > chi2 = **0.0015**

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = **-3.8463** Prob > |z| = **0.0001**
H0: no autocorrelation of order 2: z = **0.1834** Prob > |z| = **0.8545**

Generalized method of moments estimation

Fitting full model:
Step 1 f(b) = **.0308311**
Step 2 f(b) = **.70432727**

Fitting reduced model 2:
Step 1 f(b) = **.56902109**

Group variable: **mun_id** Number of obs = **1042**
Time variable: **year** Number of groups = **81**

Moment conditions: linear = **65** Obs per group: min = **10**
 nonlinear = **0** avg = **12.8642**
 total = **65** max = **13**

(Std. err. adjusted for **81** clusters in **mun_id**)

	l_rpc_remu	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_remu							
L1.		.5574764	.1097354	5.08	0.000	.342399	.7725538
L2.		.0142913	.0845739	0.17	0.866	-.1514705	.1800531
elec_t		-.0352044	.0195603	-1.80	0.072	-.073542	.0031332
l_rpc_total_expenses		.2075949	.1309217	1.59	0.113	-.049007	.4641968
Age		.0021762	.0023585	0.92	0.356	-.0024465	.0067989
sex							
Male		.0394535	.0658024	0.60	0.549	-.0895168	.1684239
k_12centers		.0005128	.0007321	0.70	0.484	-.000922	.0019476
gdp		1.53e-08	7.00e-09	2.19	0.028	1.62e-09	2.91e-08
interest_rate		-.0036458	.0040506	-0.90	0.368	-.0115848	.0042932
debt		-.0073737	.0016461	-4.48	0.000	-.0106	-.0041474
deficit		7.78e-08	2.71e-08	2.87	0.004	2.48e-08	1.31e-07
party_type							
National		.355387	.208641	1.70	0.089	-.0535418	.7643158
Provincial		-1.375976	1.647567	-0.84	0.404	-4.605147	1.853196
win_margin		-.0015885	.0021573	-0.74	0.462	-.0058167	.0026397
abstentionism		.0039318	.0040526	0.97	0.332	-.0040112	.0118747
pop_share014		-.0017514	.0156243	-0.11	0.911	-.0323744	.0288716
pop_share65plus		.0539755	.0239258	2.26	0.024	.0070818	.1008693
_cons		.2633116	1.835171	0.14	0.886	-3.333557	3.86018

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L2.1_rpc_remu L2.L2.1_rpc_remu L3.L2.1_rpc_remu L4.L2.1_rpc_remu L1.Age
  L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex L4.2.sex L1.k_12centers
  L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp L2.gdp L3.gdp L4.gdp
  L1.debt L3.debt L4.debt L1.deficit L2.deficit L3.deficit L4.deficit
  L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L4.2bn.party_type
  L1.3.party_type L2.3.party_type L3.3.party_type L4.3.party_type
  L1.win_margin L2.win_margin L3.win_margin L4.win_margin L1.abstentionism
  L2.abstentionism L3.abstentionism L4.abstentionism L1.pop_share014
  L2.pop_share014 L3.pop_share014 L4.pop_share014 L1.pop_share65plus
  L2.pop_share65plus L3.pop_share65plus L4.pop_share65plus
  L1.l_rpc_total_expenses L2.l_rpc_total_expenses L3.l_rpc_total_expenses
  L4.l_rpc_total_expenses
2, model(level):
  D.L.1_rpc_remu D.L2.1_rpc_remu D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(49)      =    57.0505
                                                        Prob > chi2    =    0.2007

```

```

2-step moment functions, 3-step weighting matrix      chi2(49)      =    75.3818
                                                        Prob > chi2    =    0.0091

```

Arellano-Bond test for autocorrelation of the first-differenced residuals

```

H0: no autocorrelation of order 1:      z =    -3.8772      Prob > |z|    =    0.0001
H0: no autocorrelation of order 2:      z =     0.1374      Prob > |z|    =    0.8907

```

Generalized method of moments estimation

Fitting full model:

```
Step 1      f(b) = .02445177
```

```
Step 2      f(b) = .12845957
```

Fitting reduced model 2:

```
Step 1      f(b) = 1.038e-21
```

```
Group variable: mun_id      Number of obs      =    1125
```

```
Time variable: year      Number of groups      =     81
```

```

Moment conditions:      linear =     25      Obs per group:      min =     11
                      nonlinear =     0                      avg =   13.88889
                      total =     25                      max =     14

```

(Std. err. adjusted for 81 clusters in mun_id)

l_rpc_serv	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_serv						
L1.	.6964671	.0870977	8.00	0.000	.5257587	.8671755
elec_t	.0306711	.0289772	1.06	0.290	-.0261232	.0874654
l_rpc_total_expenses	-.392269	.2706842	-1.45	0.147	-.9228002	.1382622
Age	.0032961	.0041939	0.79	0.432	-.0049238	.011516
sex						
Male	-.1207759	.1184537	-1.02	0.308	-.352941	.1113891
k_12centers	-.0019754	.0013181	-1.50	0.134	-.0045588	.0006081
gdp	3.05e-08	1.35e-08	2.25	0.024	3.97e-09	5.70e-08
interest_rate	-.0125705	.0099633	-1.26	0.207	-.0320982	.0069571
debt	-.0042255	.0035381	-1.19	0.232	-.0111601	.002709
deficit	-2.62e-08	5.44e-08	-0.48	0.630	-1.33e-07	8.04e-08
party_type						
National	.0209165	.4567563	0.05	0.963	-.8743093	.9161423
Provincial	.633959	4.723387	0.13	0.893	-8.623709	9.891627

win_margin	-.0121613	.0046053	-2.64	0.008	-.0211874	-.0031351
abstentionism	.0114989	.0078234	1.47	0.142	-.0038348	.0268325
pop_share014	.0352436	.0142023	2.48	0.013	.0074076	.0630797
pop_share65plus	.0792238	.0388509	2.04	0.041	.0030774	.1553702
_cons	6.358192	4.131383	1.54	0.124	-1.739169	14.45555

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L1_rpc_serv L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
  L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
  L1.abstentionism L1.pop_share014 L1.pop_share65plus L1.l_rpc_total_expenses
2, model(level):
  D.L1_rpc_serv D.elec_t D.Age D.2.sex D.k_12centers D.gdp D.interest_rate
  D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(10) = 10.4052
 Prob > chi2 = 0.4057

2-step moment functions, 3-step weighting matrix chi2(10) = 8.5491
 Prob > chi2 = 0.5754

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -4.2919 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = 1.1864 Prob > |z| = 0.2355

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .07562749

Step 2 f(b) = .50938212

Fitting reduced model 2:

Step 1 f(b) = .21591083

Group variable: **mun_id**

Number of obs = 1125

Time variable: **year**

Number of groups = 81

Moment conditions: linear = 40 Obs per group: min = 11
 nonlinear = 0 avg = 13.88889
 total = 40 max = 14

(Std. err. adjusted for 81 clusters in **mun_id**)

	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_serv						
l_rpc_serv						
L1.	.5686896	.1523017	3.73	0.000	.2701837	.8671955
elec_t	.0050781	.0351988	0.14	0.885	-.0639103	.0740666
l_rpc_total_expenses	-.2073306	.3274064	-0.63	0.527	-.8490354	.4343742
Age	.0000764	.0036599	0.02	0.983	-.0070968	.0072496
sex						
Male	-.0193634	.1031208	-0.19	0.851	-.2214764	.1827497
k_12centers	-.0026191	.0012926	-2.03	0.043	-.0051525	-.0000857
gdp	3.94e-08	1.68e-08	2.34	0.019	6.45e-09	7.24e-08
interest_rate	-.0177973	.0144743	-1.23	0.219	-.0461665	.0105719
debt	-.0051441	.0037024	-1.39	0.165	-.0124007	.0021125
deficit	1.45e-08	5.65e-08	0.26	0.797	-9.62e-08	1.25e-07
party_type						
National	.1432317	.5293117	0.27	0.787	-.8942002	1.180664
Provincial	.8030768	3.382142	0.24	0.812	-5.8258	7.431954
win_margin	-.0039014	.0067562	-0.58	0.564	-.0171434	.0093406
abstentionism	-.0018374	.0105078	-0.17	0.861	-.0224324	.0187576

pop_share014	.0480051	.017722	2.71	0.007	.0132705	.0827397
pop_share65plus	.0255394	.0445171	0.57	0.566	-.0617125	.1127913
_cons	5.499225	4.45673	1.23	0.217	-3.235806	14.23426

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L1_rpc_serv L2.L1_rpc_serv L1.Age L2.Age L1.2.sex L2.2.sex
  L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
  L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
  L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
  L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
  L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
  L1.l_rpc_total_expenses L2.l_rpc_total_expenses
2, model(level):
  D.L1_rpc_serv D.elec_t D.Age D.2.sex D.k_12centers D.gdp D.interest_rate
  D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(25) = 41.2600
 Prob > chi2 = 0.0216

2-step moment functions, 3-step weighting matrix chi2(25) = 50.2670
 Prob > chi2 = 0.0020

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -3.9565 Prob > |z| = 0.0001

H0: no autocorrelation of order 2: z = 1.2288 Prob > |z| = 0.2192

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .0902748

Step 2 f(b) = .60378017

Fitting reduced model 2:

Step 1 f(b) = .52967815

Group variable: **mun_id** Number of obs = 1125

Time variable: **year** Number of groups = 81

Moment conditions: linear = 54 Obs per group: min = 11
 nonlinear = 0 avg = 13.88889
 total = 54 max = 14

(Std. err. adjusted for 81 clusters in **mun_id**)

	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_serv						
l_rpc_serv						
L1.	.6327853	.1013859	6.24	0.000	.4340727	.831498
elec_t	.0070328	.0330656	0.21	0.832	-.0577746	.0718402
l_rpc_total_expenses	-.0673847	.315046	-0.21	0.831	-.6848635	.5500941
Age	-.0006081	.0038165	-0.16	0.873	-.0080882	.0068721
sex						
Male	.0440565	.0803802	0.55	0.584	-.1134859	.2015988
k_12centers	-.0018682	.0012126	-1.54	0.123	-.004245	.0005085
gdp	2.94e-08	1.57e-08	1.87	0.062	-1.43e-09	6.02e-08
interest_rate	-.0199769	.0097085	-2.06	0.040	-.0390052	-.0009486
debt	-.0039601	.003231	-1.23	0.220	-.0102927	.0023725
deficit	2.84e-09	5.16e-08	0.06	0.956	-9.82e-08	1.04e-07
party_type						
National	-.0339401	.42239	-0.08	0.936	-.8618092	.793929
Provincial	.1986204	2.311707	0.09	0.932	-4.332242	4.729483

win_margin	-.0040411	.0054697	-0.74	0.460	-.0147616	.0066794
abstentionism	-.0007067	.0086983	-0.08	0.935	-.0177551	.0163418
pop_share014	.0372723	.0175228	2.13	0.033	.0029282	.0716164
pop_share65plus	-.0010888	.0473119	-0.02	0.982	-.0938185	.0916408
_cons	3.451061	4.19086	0.82	0.410	-4.762875	11.665

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L1_rpc_serv L2.L1_rpc_serv L3.L1_rpc_serv L1.Age L2.Age L3.Age
  L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers L3.k_12centers
  L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate L3.interest_rate
  L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit L1.2bn.party_type
  L2.2bn.party_type L3.2bn.party_type L1.3.party_type L2.3.party_type
  L3.3.party_type L1.win_margin L2.win_margin L3.win_margin L1.abstentionism
  L2.abstentionism L3.abstentionism L1.pop_share014 L2.pop_share014
  L3.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus
  L1.l_rpc_total_expenses L2.l_rpc_total_expenses L3.l_rpc_total_expenses
2, model(level):
  D.L1_rpc_serv D.Age D.2.sex D.k_12centers D.gdp D.interest_rate D.debt
  D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(39) = **48.9062**
 Prob > chi2 = **0.1329**

2-step moment functions, 3-step weighting matrix chi2(39) = **57.5411**
 Prob > chi2 = **0.0281**

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-4.5251** Prob > |z| = **0.0000**

H0: no autocorrelation of order 2: z = **1.2962** Prob > |z| = **0.1949**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.09871764**

Step 2 f(b) = **.71841259**

Fitting reduced model 2:

Step 1 f(b) = **.61094767**

Group variable: **mun_id** Number of obs = **1125**
 Time variable: **year** Number of groups = **81**

Moment conditions: linear = **65** Obs per group: min = **11**
 nonlinear = **0** avg = **13.88889**
 total = **65** max = **14**

(Std. err. adjusted for **81** clusters in **mun_id**)

	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_serv						
l_rpc_serv						
L1.	.628574	.0934956	6.72	0.000	.4453259	.811822
elec_t	.0299403	.0281861	1.06	0.288	-.0253035	.085184
l_rpc_total_expenses	.1010431	.3174834	0.32	0.750	-.5212129	.7232992
Age	-.0008597	.0034635	-0.25	0.804	-.007648	.0059286
sex						
Male	.0606904	.080909	0.75	0.453	-.0978883	.2192691
k_12centers	-.0014158	.0013988	-1.01	0.311	-.0041573	.0013258
gdp	1.94e-08	1.66e-08	1.17	0.242	-1.31e-08	5.20e-08
interest_rate	-.024782	.0092518	-2.68	0.007	-.0429152	-.0066489
_debt	-.0030887	.0037466	-0.82	0.410	-.0104319	.0042546
deficit	-5.88e-09	4.79e-08	-0.12	0.902	-9.97e-08	8.80e-08

party_type						
National	.0383788	.3354796	0.11	0.909	-.6191491	.6959068
Provincial	.068961	2.373259	0.03	0.977	-4.582542	4.720464
win_margin	-.002228	.0040435	-0.55	0.582	-.010153	.0056971
abstentionism	-.0014764	.0073928	-0.20	0.842	-.015966	.0130131
pop_share014	.027347	.0160765	1.70	0.089	-.0041623	.0588563
pop_share65plus	-.0152279	.0480856	-0.32	0.751	-.1094738	.0790181
_cons	1.477677	3.951269	0.37	0.708	-6.266667	9.222021

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L1_rpc_serv L2.L1_rpc_serv L3.L1_rpc_serv L4.L1_rpc_serv L1.Age
  L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex L4.2.sex L1.k_12centers
  L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp L2.gdp L3.gdp L4.gdp
  L4.interest_rate L2.debt L3.debt L4.debt L1.deficit L2.deficit L3.deficit
  L4.deficit L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type
  L4.2bn.party_type L1.3.party_type L2.3.party_type L3.3.party_type
  L4.3.party_type L1.win_margin L2.win_margin L3.win_margin L4.win_margin
  L1.abstentionism L2.abstentionism L3.abstentionism L4.abstentionism
  L1.pop_share014 L2.pop_share014 L3.pop_share014 L4.pop_share014
  L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus L4.pop_share65plus
  L1.l_rpc_total_expenses L2.l_rpc_total_expenses L3.l_rpc_total_expenses
  L4.l_rpc_total_expenses
2, model(level):
  D.L1_rpc_serv D.Age D.2.sex D.k_12centers D.gdp D.interest_rate D.debt
  D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

```
2-step moment functions, 2-step weighting matrix      chi2(50)      =      58.1914
                                                         Prob > chi2    =      0.1993
```

```
2-step moment functions, 3-step weighting matrix      chi2(50)      =      65.3858
                                                         Prob > chi2    =      0.0709
```

Arellano-Bond test for autocorrelation of the first-differenced residuals

```
H0: no autocorrelation of order 1:      z =      -4.6425      Prob > |z|    =      0.0000
H0: no autocorrelation of order 2:      z =      1.2536      Prob > |z|    =      0.2100
```

Generalized method of moments estimation

Fitting full model:

```
Step 1      f(b) =      .02446155
Step 2      f(b) =      .27380499
```

Fitting reduced model 2:

```
Step 1      f(b) =      6.809e-19
```

```
Group variable: mun_id      Number of obs      =      1042
```

```
Time variable: year      Number of groups      =      81
```

```
Moment conditions:      linear =      26      Obs per group:      min =      10
                        nonlinear =      0      avg =      12.8642
                        total =      26      max =      13
```

(Std. err. adjusted for 81 clusters in mun_id)

	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_serv						
l_rpc_serv						
L1.	.6920725	.0943578	7.33	0.000	.5071347	.8770103
L2.	.240374	.1231745	1.95	0.051	-.0010436	.4817917
elec_t	.0273829	.0438824	0.62	0.533	-.058625	.1133908
l_rpc_total_expenses	-.0538126	.3471362	-0.16	0.877	-.734187	.6265619
Age	.0030526	.0058029	0.53	0.599	-.0083209	.0144262

sex						
Male	.0519894	.1177483	0.44	0.659	-.178793	.2827719
k_12centers	-.0006859	.0010248	-0.67	0.503	-.0026944	.0013226
gdp	2.46e-08	1.60e-08	1.53	0.126	-6.90e-09	5.60e-08
interest_rate	-.0278685	.0145681	-1.91	0.056	-.0564215	.0006845
debt	-.0144467	.0063259	-2.28	0.022	-.0268453	-.0020482
deficit	-2.39e-08	6.30e-08	-0.38	0.705	-1.47e-07	9.96e-08
party_type						
National	-.2484819	.3044745	-0.82	0.414	-.8452411	.3482772
Provincial	1.935791	3.409662	0.57	0.570	-4.747023	8.618605
win_margin	.0012464	.0117269	0.11	0.915	-.0217378	.0242306
abstentionism	.0021748	.0192499	0.11	0.910	-.0355542	.0399039
pop_share014	.039465	.0185643	2.13	0.034	.0030797	.0758503
pop_share65plus	.0646719	.0578692	1.12	0.264	-.0487497	.1780936
_cons	.3297676	5.520508	0.06	0.952	-10.49023	11.14976

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L2.1_rpc_serv L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
  L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
  L1.abstentionism L1.pop_share014 L1.pop_share65plus L1.1_rpc_total_expenses
2, model(level):
  D.L1_rpc_serv D.L2.1_rpc_serv D.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(10) = 22.1782
 Prob > chi2 = 0.0142

2-step moment functions, 3-step weighting matrix chi2(10) = 39.1359
 Prob > chi2 = 0.0000

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -3.6383 Prob > |z| = 0.0003
 H0: no autocorrelation of order 2: z = -1.2504 Prob > |z| = 0.2112

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .05394242
 Step 2 f(b) = .45384461

Fitting reduced model 2:

Step 1 f(b) = .12638248

Group variable: **mun_id** Number of obs = 1042
 Time variable: **year** Number of groups = 81

Moment conditions: linear = 41 Obs per group: min = 10
 nonlinear = 0 avg = 12.8642
 total = 41 max = 13

(Std. err. adjusted for 81 clusters in **mun_id**)

	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_serv						
l_rpc_serv						
L1.	.6362292	.095853	6.64	0.000	.4483608	.8240977
L2.	.2321715	.1137993	2.04	0.041	.0091289	.4552141
elec_t	-.0155419	.0364941	-0.43	0.670	-.087069	.0559851
l_rpc_total_expenses	.1434353	.4762896	0.30	0.763	-.7900751	1.076946
Age	.0039118	.0050473	0.78	0.438	-.0059808	.0138044
sex						

Male	.0529422	.0970508	0.55	0.585	-.1372738	.2431582
k_12centers	-.0003321	.0019225	-0.17	0.863	-.0041001	.003436
gdp	2.97e-08	2.31e-08	1.28	0.200	-1.57e-08	7.50e-08
interest_rate	-.0308445	.0107252	-2.88	0.004	-.0518655	-.0098234
debt	-.016769	.005309	-3.16	0.002	-.0271744	-.0063636
deficit	3.15e-08	5.77e-08	0.55	0.585	-8.17e-08	1.45e-07
party_type						
National	-.1908863	.2149194	-0.89	0.374	-.6121205	.2303479
Provincial	.1064986	3.172458	0.03	0.973	-6.111404	6.324401
win_margin	-.0013229	.0047023	-0.28	0.778	-.0105393	.0078934
abstentionism	.0064564	.0084331	0.77	0.444	-.0100721	.0229848
pop_share014	.0273939	.0216642	1.26	0.206	-.0150673	.069855
pop_share65plus	.0341733	.0536396	0.64	0.524	-.0709583	.1393049
_cons	-1.816738	6.134097	-0.30	0.767	-13.83935	10.20587

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.1_rpc_serv L2.L2.1_rpc_serv L1.Age L2.Age L1.2.sex L2.2.sex
 L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
 L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
 L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
 L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
 L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
 L1.1_rpc_total_expenses L2.1_rpc_total_expenses

2, model(level):

D.L.1_rpc_serv D.L2.1_rpc_serv D.elec_t D.Age D.2.sex D.k_12centers D.gdp
 D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(25) = 36.7614
 Prob > chi2 = 0.0608

2-step moment functions, 3-step weighting matrix chi2(25) = 45.3202
 Prob > chi2 = 0.0077

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -3.5304 Prob > |z| = 0.0004

H0: no autocorrelation of order 2: z = -1.0133 Prob > |z| = 0.3109

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .06685704

Step 2 f(b) = .61262317

Fitting reduced model 2:

Step 1 f(b) = .43461048

Group variable: mun_id

Number of obs = 1042

Time variable: year

Number of groups = 81

Moment conditions: linear = 54 Obs per group: min = 10
 nonlinear = 0 avg = 12.8642
 total = 54 max = 13

(Std. err. adjusted for 81 clusters in mun_id)

l_rpc_serv	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_serv						
L1.	.6084077	.0841794	7.23	0.000	.4434191	.7733963
L2.	.1529948	.0906357	1.69	0.091	-.0246478	.3306375
elec_t	-.0015002	.043796	-0.03	0.973	-.0873389	.0843384
l_rpc_total_expenses	.3826891	.3757867	1.02	0.309	-.3538394	1.119217
Age	.0008117	.0059118	0.14	0.891	-.0107752	.0123986
sex						
Male	.06822	.1126618	0.61	0.545	-.1525931	.2890331
k_12centers	.0001454	.0016726	0.09	0.931	-.0031329	.0034236
gdp	1.53e-08	2.08e-08	0.74	0.462	-2.54e-08	5.61e-08
interest_rate	-.0285875	.0098351	-2.91	0.004	-.047864	-.009311
debt	-.0125507	.0061969	-2.03	0.043	-.0246965	-.0004049
deficit	3.80e-09	7.25e-08	0.05	0.958	-1.38e-07	1.46e-07
party_type						
National	-.1464523	.3503558	-0.42	0.676	-.8331372	.5402325
Provincial	-.0112188	3.507892	-0.00	0.997	-6.88656	6.864123
win_margin	-.0011645	.0066739	-0.17	0.861	-.0142451	.0119161
abstentionism	.0013481	.0144031	0.09	0.925	-.0268815	.0295777
pop_share014	.0204758	.0204242	1.00	0.316	-.019555	.0605065
pop_share65plus	.0276595	.0719833	0.38	0.701	-.1134252	.1687442
_cons	-3.761368	4.383463	-0.86	0.391	-12.3528	4.830062

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L2.1_rpc_serv L2.L2.1_rpc_serv L3.L2.1_rpc_serv L1.Age L2.Age L3.Age
  L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers L3.k_12centers
  L1.gdp L2.gdp L3.gdp L3.interest_rate L1.debt L2.debt L3.debt L1.deficit
  L2.deficit L3.deficit L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type
  L1.3.party_type L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin
  L3.win_margin L1.abstentionism L2.abstentionism L3.abstentionism
  L1.pop_share014 L2.pop_share014 L3.pop_share014 L1.pop_share65plus
  L2.pop_share65plus L3.pop_share65plus L1.l_rpc_total_expenses
  L2.l_rpc_total_expenses L3.l_rpc_total_expenses
2, model(level):
  D.L1.1_rpc_serv D.L2.1_rpc_serv D.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(38)      =    49.6225
                                                         Prob > chi2    =    0.0982

```

```

2-step moment functions, 3-step weighting matrix      chi2(38)      =    54.4909
                                                         Prob > chi2    =    0.0404

```

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -4.2424 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = -0.6629 Prob > |z| = 0.5074

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .07294128

Step 2 f(b) = .69646588

Fitting reduced model 2:

Step 1 f(b) = .51346336

Group variable: **mun_id** Number of obs = **1042**
 Time variable: **year** Number of groups = **81**

Moment conditions: linear = **65** Obs per group: min = **10**
 nonlinear = **0** avg = **12.8642**
 total = **65** max = **13**

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_serv	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_serv						
L1.	.5913113	.0679947	8.70	0.000	.4580441	.7245785
L2.	.1542871	.0914087	1.69	0.091	-.0248707	.3334449
elec_t	-.0032928	.0357823	-0.09	0.927	-.0734248	.0668393
l_rpc_total_expenses	.3472639	.2472536	1.40	0.160	-.1373442	.831872
Age	.0013143	.0036982	0.36	0.722	-.005934	.0085626
sex						
Male	.0516199	.1014484	0.51	0.611	-.1472153	.250455
k_12centers	-.0000866	.0010879	-0.08	0.937	-.0022188	.0020456
gdp	1.84e-08	1.47e-08	1.25	0.212	-1.05e-08	4.72e-08
interest_rate	-.0284165	.0095046	-2.99	0.003	-.0470452	-.0097878
debt	-.0120901	.005378	-2.25	0.025	-.0226308	-.0015495
deficit	1.86e-08	5.75e-08	0.32	0.746	-9.41e-08	1.31e-07
party_type						
National	-.1126777	.2096043	-0.54	0.591	-.5234946	.2981392
Provincial	.3395474	2.79502	0.12	0.903	-5.13859	5.817685
win_margin	-.0009275	.0046519	-0.20	0.842	-.0100451	.00819
abstentionism	.0056758	.0108005	0.53	0.599	-.0154928	.0268444
pop_share014	.0213251	.0158143	1.35	0.178	-.0096704	.0523206
pop_share65plus	.0284263	.0577492	0.49	0.623	-.0847601	.1416127
_cons	-3.481546	2.759036	-1.26	0.207	-8.889159	1.926066

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L2.l_rpc_serv L2.L2.l_rpc_serv L3.L2.l_rpc_serv L4.L2.l_rpc_serv L1.Age
  L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex L4.2.sex L1.k_12centers
  L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp L2.gdp L3.gdp L4.gdp
  L1.debt L3.debt L4.debt L1.deficit L2.deficit L3.deficit L4.deficit
  L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L4.2bn.party_type
  L1.3.party_type L2.3.party_type L3.3.party_type L4.3.party_type
  L1.win_margin L2.win_margin L3.win_margin L4.win_margin L1.abstentionism
  L2.abstentionism L3.abstentionism L4.abstentionism L1.pop_share014
  L2.pop_share014 L3.pop_share014 L4.pop_share014 L1.pop_share65plus
  L2.pop_share65plus L3.pop_share65plus L4.pop_share65plus
  L1.l_rpc_total_expenses L2.l_rpc_total_expenses L3.l_rpc_total_expenses
  L4.l_rpc_total_expenses
2, model(level):
  D.L1.l_rpc_serv D.L2.l_rpc_serv D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions
 H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(49) = **56.4137**
 Prob > chi2 = **0.2175**

2-step moment functions, 3-step weighting matrix chi2(49) = **61.8517**
 Prob > chi2 = **0.1028**

Arellano-Bond test for autocorrelation of the first-differenced residuals
 H0: no autocorrelation of order 1: z = **-4.7159** Prob > |z| = **0.0000**
 H0: no autocorrelation of order 2: z = **-0.9577** Prob > |z| = **0.3382**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .20203514

Step 2 f(b) = .16132201

Fitting reduced model 2:

Step 1 f(b) = 1.160e-19

Group variable: **mun_id** Number of obs = 1125Time variable: **year** Number of groups = 81

Moment conditions:	linear =	25	Obs per group:	min =	11
	nonlinear =	0		avg =	13.88889
	total =	25		max =	14

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_d_goods	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_d_goods						
L1.	.3261911	.064919	5.02	0.000	.1989522	.45343
elec_t	-.0442178	.1002745	-0.44	0.659	-.2407522	.1523166
l_rpc_total_expenses	.5031865	.720661	0.70	0.485	-.909283	1.915656
Age	.0208333	.0170378	1.22	0.221	-.0125601	.0542268
sex						
Male	.1116587	.4966338	0.22	0.822	-.8617258	1.085043
k_12centers	.0002737	.0036375	0.08	0.940	-.0068557	.0074031
gdp	3.54e-08	4.73e-08	0.75	0.454	-5.73e-08	1.28e-07
interest_rate	.0801446	.0339837	2.36	0.018	.0135378	.1467514
debt	.0047425	.010869	0.44	0.663	-.0165603	.0260452
deficit	-6.26e-08	1.51e-07	-0.42	0.678	-3.58e-07	2.33e-07
party_type						
National	-.0430083	.6823182	-0.06	0.950	-1.380327	1.294311
Provincial	1.384995	9.75078	0.14	0.887	-17.72618	20.49617
win_margin	-.0082633	.0184613	-0.45	0.654	-.0444467	.0279201
abstentionism	.0335521	.0288137	1.16	0.244	-.0229217	.0900258
pop_share014	.0906967	.048606	1.87	0.062	-.0045692	.1859627
pop_share65plus	.1659393	.1546692	1.07	0.283	-.1372067	.4690853
_cons	-9.711767	8.861314	-1.10	0.273	-27.07962	7.656089

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L1_rpc_d_goods L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
 L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
 L1.abstentionism L1.pop_share014 L1.pop_share65plus L1.l_rpc_total_expenses

2, model(level):

D.L1_rpc_d_goods D.elec_t D.Age D.2.sex D.k_12centers D.gdp
 D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix	chi2(10)	=	13.0671
	Prob > chi2	=	0.2199

2-step moment functions, 3-step weighting matrix	chi2(10)	=	15.3446
	Prob > chi2	=	0.1200

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -5.4385 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = 0.7869 Prob > |z| = 0.4313

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .45874117

Step 2 f(b) = .30095761

Fitting reduced model 2:

Step 1 f(b) = .17657992

Group variable: **mun_id**

Number of obs = 1125

Time variable: **year**

Number of groups = 81

Moment conditions: linear = 40

Obs per group: min = 11

nonlinear = 0

avg = 13.88889

total = 40

max = 14

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_d_goods	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_d_goods						
L1.	.3454841	.0644851	5.36	0.000	.2190957	.4718726
elec_t	-.0333099	.0813588	-0.41	0.682	-.1927703	.1261505
l_rpc_total_expenses	.6284334	.6192676	1.01	0.310	-.5853087	1.842176
Age	.0183438	.0117745	1.56	0.119	-.0047338	.0414214
sex						
Male	.1935563	.3721588	0.52	0.603	-.5358615	.9229742
k_12centers	-.0000417	.0022162	-0.02	0.985	-.0043853	.0043019
gdp	5.03e-08	3.67e-08	1.37	0.170	-2.15e-08	1.22e-07
interest_rate	.0222289	.0323803	0.69	0.492	-.0412354	.0856932
debt	-.0043435	.0092238	-0.47	0.638	-.0224218	.0137347
deficit	1.71e-08	1.16e-07	0.15	0.882	-2.10e-07	2.44e-07
party_type						
National	-.5057103	.6859952	-0.74	0.461	-1.850236	.8388155
Provincial	5.386332	8.152322	0.66	0.509	-10.59193	21.36459
win_margin	.001442	.0130731	0.11	0.912	-.0241808	.0270648
abstentionism	.0226775	.0240106	0.94	0.345	-.0243824	.0697373
pop_share014	.0942173	.0375834	2.51	0.012	.0205551	.1678794
pop_share65plus	.035089	.0993101	0.35	0.724	-.1595553	.2297332
_cons	-9.16512	8.579616	-1.07	0.285	-25.98086	7.650618

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L1.l_rpc_d_goods L2.L1.l_rpc_d_goods L1.Age L2.Age L1.2.sex L2.2.sex
 L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
 L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
 L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
 L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
 L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
 L1.l_rpc_total_expenses L2.l_rpc_total_expenses

2, model(level):

D.L1.l_rpc_d_goods D.elec_t D.Age D.2.sex D.k_12centers D.gdp
 D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(25) = 24.3776
 Prob > chi2 = 0.4977

2-step moment functions, 3-step weighting matrix chi2(25) = 28.5793
 Prob > chi2 = 0.2819

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -4.8179 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = 0.8318 Prob > |z| = 0.4055

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .55512016

Step 2 f(b) = .52552756

Fitting reduced model 2:

Step 1 f(b) = .35105768

Group variable: **mun_id** Number of obs = 1125Time variable: **year** Number of groups = 81

Moment conditions:	linear =	54	Obs per group:	min =	11
	nonlinear =	0		avg =	13.88889
	total =	54		max =	14

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_d_goods	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_d_goods						
L1.	.3059462	.0632747	4.84	0.000	.1819299	.4299624
elec_t	-.023323	.075665	-0.31	0.758	-.1716236	.1249776
l_rpc_total_expenses	1.170332	.8426821	1.39	0.165	-.4812942	2.821959
Age	.0055536	.0098218	0.57	0.572	-.0136968	.024804
sex						
Male	.1773302	.3198008	0.55	0.579	-.449468	.8041283
k_12centers	.0005118	.0028771	0.18	0.859	-.0051271	.0061508
gdp	3.97e-08	4.72e-08	0.84	0.400	-5.28e-08	1.32e-07
interest_rate	.0098624	.0295087	0.33	0.738	-.0479737	.0676984
debt	.0027734	.0117542	0.24	0.813	-.0202644	.0258113
deficit	-6.97e-08	1.41e-07	-0.50	0.620	-3.45e-07	2.06e-07
party_type						
National	-.7339845	.9788074	-0.75	0.453	-2.652412	1.184443
Provincial	5.642435	7.736203	0.73	0.466	-9.520244	20.80511
win_margin	-.000998	.0100441	-0.10	0.921	-.0206841	.0186881
abstentionism	.011079	.0215158	0.51	0.607	-.0310912	.0532492
pop_share014	.1207428	.0388482	3.11	0.002	.0446017	.1968838
pop_share65plus	-.0856972	.1318893	-0.65	0.516	-.3441955	.1728011
_cons	-15.28964	11.74617	-1.30	0.193	-38.31171	7.732426

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L1.l_rpc_d_goods L2.L1.l_rpc_d_goods L3.L1.l_rpc_d_goods L1.Age L2.Age
 L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
 L3.k_12centers L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate
 L3.interest_rate L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit
 L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L1.3.party_type
 L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
 L1.abstentionism L2.abstentionism L3.abstentionism L1.pop_share014
 L2.pop_share014 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus
 L3.pop_share65plus L1.l_rpc_total_expenses L2.l_rpc_total_expenses
 L3.l_rpc_total_expenses

2, model(level):

D.L1.l_rpc_d_goods D.Age D.2.sex D.k_12centers D.gdp D.interest_rate D.debt
 D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix	chi2(39)	=	42.5677
	Prob > chi2	=	0.3201

2-step moment functions, 3-step weighting matrix chi2(39) = 45.5790
 Prob > chi2 = 0.2173

Arellano-Bond test for autocorrelation of the first-differenced residuals
 H0: no autocorrelation of order 1: z = -5.0841 Prob > |z| = 0.0000
 H0: no autocorrelation of order 2: z = 0.4898 Prob > |z| = 0.6243

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .59310856
 Step 2 f(b) = .61203699

Fitting reduced model 2:

Step 1 f(b) = .50209479

Group variable: **mun_id** Number of obs = 1125
 Time variable: **year** Number of groups = 81
 Moment conditions: linear = 65 Obs per group: min = 11
 nonlinear = 0 avg = 13.88889
 total = 65 max = 14

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_d_goods	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_d_goods						
L1.	.3382748	.0571682	5.92	0.000	.2262271	.4503225
elec_t	-.0308383	.0720039	-0.43	0.668	-.1719633	.1102867
l_rpc_total_expenses	1.259262	.7400234	1.70	0.089	-.191157	2.709682
Age	.0062593	.007663	0.82	0.414	-.0087599	.0212785
sex						
Male	.1973485	.3008735	0.66	0.512	-.3923528	.7870498
k_12centers	.0003963	.0029872	0.13	0.894	-.0054586	.0062511
gdp	3.05e-08	4.01e-08	0.76	0.447	-4.81e-08	1.09e-07
interest_rate	-.0039165	.0240917	-0.16	0.871	-.0511354	.0433025
debt	.0038226	.0111724	0.34	0.732	-.018075	.0257201
deficit	-6.80e-08	1.37e-07	-0.50	0.619	-3.36e-07	2.00e-07
party_type						
National	-.1197818	.6745163	-0.18	0.859	-1.441809	1.202246
Provincial	6.74242	7.571596	0.89	0.373	-8.097635	21.58247
win_margin	-.0042634	.0085464	-0.50	0.618	-.0210139	.0124872
abstentionism	.012785	.0190339	0.67	0.502	-.0245208	.0500907
pop_share014	.1122975	.0332699	3.38	0.001	.0470898	.1775052
pop_share65plus	-.1161047	.1198283	-0.97	0.333	-.3509638	.1187544
_cons	-16.91776	10.18019	-1.66	0.097	-36.87056	3.03505

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L1_rpc_d_goods L2.L1_rpc_d_goods L3.L1_rpc_d_goods L4.L1_rpc_d_goods
 L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex L4.2.sex
 L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp L2.gdp
 L3.gdp L4.gdp L4.interest_rate L2.debt L3.debt L4.debt L1.deficit
 L2.deficit L3.deficit L4.deficit L1.2bn.party_type L2.2bn.party_type
 L3.2bn.party_type L4.2bn.party_type L1.3.party_type L2.3.party_type
 L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin L3.win_margin
 L4.win_margin L1.abstentionism L2.abstentionism L3.abstentionism
 L4.abstentionism L1.pop_share014 L2.pop_share014 L3.pop_share014
 L4.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus
 L4.pop_share65plus L1.l_rpc_total_expenses L2.l_rpc_total_expenses
 L3.l_rpc_total_expenses L4.l_rpc_total_expenses

2, model(level):

D.L1_rpc_d_goods D.Age D.2.sex D.k_12centers D.gdp D.interest_rate D.debt
 D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(50) = **49.5750**
Prob > chi2 = **0.4904**

2-step moment functions, 3-step weighting matrix chi2(50) = **59.8558**
Prob > chi2 = **0.1603**

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-5.3668** Prob > |z| = **0.0000**
H0: no autocorrelation of order 2: z = **0.6868** Prob > |z| = **0.4922**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.1614556**
Step 2 f(b) = **.10301293**

Fitting reduced model 2:

Step 1 f(b) = **8.521e-17**

Group variable: **mun_id** Number of obs = **1042**
Time variable: **year** Number of groups = **81**

Moment conditions: linear = **26** Obs per group: min = **10**
 nonlinear = **0** avg = **12.8642**
 total = **26** max = **13**

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_d_goods	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_d_goods						
L1.	.3545264	.0519478	6.82	0.000	.2527107	.4563422
L2.	.0583695	.0444387	1.31	0.189	-.0287288	.1454679
elec_t	.0462154	.0709109	0.65	0.515	-.0927675	.1851982
l_rpc_total_expenses	.554925	.3772183	1.47	0.141	-.1844094	1.294259
Age	.0255334	.0156552	1.63	0.103	-.0051503	.0562171
sex						
Male	.0879256	.3441659	0.26	0.798	-.5866271	.7624782
k_12centers	.0015852	.0023623	0.67	0.502	-.0030448	.0062152
gdp	-8.53e-09	3.36e-08	-0.25	0.800	-7.43e-08	5.73e-08
interest_rate	.0962427	.0302915	3.18	0.001	.0368725	.1556128
debt	.0166511	.0126338	1.32	0.188	-.0081106	.0414128
deficit	-1.60e-07	1.35e-07	-1.18	0.236	-4.25e-07	1.05e-07
party_type						
National	-1.284613	.8401323	-1.53	0.126	-2.931242	.3620165
Provincial	-2.243901	11.60301	-0.19	0.847	-24.98539	20.49759
win_margin	.0011557	.0125037	0.09	0.926	-.0233512	.0256626
abstentionism	.0121704	.0255642	0.48	0.634	-.0379346	.0622753
pop_share014	.0737176	.0385221	1.91	0.056	-.0017844	.1492196
pop_share65plus	.0854302	.0993959	0.86	0.390	-.1093822	.2802425
_cons	-7.850129	5.762132	-1.36	0.173	-19.1437	3.443441

Instruments corresponding to the linear moment conditions:

1, model(diff):

 L1.L2.l_rpc_d_goods L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
 L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
 L1.abstentionism L1.pop_share014 L1.pop_share65plus L1.l_rpc_total_expenses

2, model(level):

 D.L.l_rpc_d_goods D.L2.l_rpc_d_goods D.elec_t D.Age D.2.sex D.k_12centers
 D.gdp D.interest_rate D.debt D.deficit

3, model(level):

 _cons

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix $\chi^2(10) = 8.3440$
Prob > $\chi^2 = 0.5953$

2-step moment functions, 3-step weighting matrix $\chi^2(10) = 8.2990$
Prob > $\chi^2 = 0.5997$

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: $z = -5.1833$ Prob > $|z| = 0.0000$
H0: no autocorrelation of order 2: $z = -0.6145$ Prob > $|z| = 0.5389$

Generalized method of moments estimation

Fitting full model:

Step 1 $f(b) = .38220162$
Step 2 $f(b) = .33341829$

Fitting reduced model 2:

Step 1 $f(b) = .18376537$

Group variable: **mun_id** Number of obs = 1042
Time variable: **year** Number of groups = 81

Moment conditions: linear = 41 Obs per group: min = 10
 nonlinear = 0 avg = 12.8642
 total = 41 max = 13

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_d_goods	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_d_goods						
L1.	.3318086	.0705896	4.70	0.000	.1934555	.4701618
L2.	.0639977	.0481473	1.33	0.184	-.0303693	.1583647
elec_t	-.0030846	.0652872	-0.05	0.962	-.1310451	.1248759
l_rpc_total_expenses	.8655818	1.605669	0.54	0.590	-2.281471	4.012635
Age	.0206001	.0158276	1.30	0.193	-.0104214	.0516215
sex						
Male	.1407448	.353782	0.40	0.691	-.5526552	.8341448
k_12centers	.0002988	.0044515	0.07	0.946	-.008426	.0090237
gdp	3.90e-08	7.49e-08	0.52	0.602	-1.08e-07	1.86e-07
interest_rate	.0471057	.0327978	1.44	0.151	-.0171768	.1113881
debt	.0009021	.0136911	0.07	0.947	-.0259319	.0277361
deficit	-7.67e-08	1.46e-07	-0.53	0.599	-3.62e-07	2.09e-07
party_type						
National	-1.478232	.9781119	-1.51	0.131	-3.395296	.4388322
Provincial	2.79303	12.63058	0.22	0.825	-21.96246	27.54852
win_margin	.0087772	.0105318	0.83	0.405	-.0118648	.0294193
abstentionism	-.0026094	.0248924	-0.10	0.917	-.0513976	.0461788
pop_share014	.1239277	.0719257	1.72	0.085	-.017044	.2648995
pop_share65plus	-.0102853	.2042911	-0.05	0.960	-.4106885	.3901178
_cons	-11.45109	21.34401	-0.54	0.592	-53.28459	30.38241

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.l_rpc_d_goods L2.L2.l_rpc_d_goods L1.Age L2.Age L1.2.sex L2.2.sex
L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
L1.l_rpc_total_expenses L2.l_rpc_total_expenses

2, model(level):

D.L.l_rpc_d_goods D.L2.l_rpc_d_goods D.elec_t D.Age D.2.sex D.k_12centers
D.gdp D.interest_rate D.debt D.deficit

```
3, model(level):
    _cons
```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

```
2-step moment functions, 2-step weighting matrix      chi2(25)      =    27.0069
                                                         Prob > chi2    =    0.3555
```

```
2-step moment functions, 3-step weighting matrix      chi2(25)      =    28.4492
                                                         Prob > chi2    =    0.2876
```

Arellano-Bond test for autocorrelation of the first-differenced residuals

```
H0: no autocorrelation of order 1:      z =    -5.2535      Prob > |z|    =    0.0000
H0: no autocorrelation of order 2:      z =    -0.7619      Prob > |z|    =    0.4461
```

Generalized method of moments estimation

Fitting full model:

```
Step 1      f(b) =    .45392087
Step 2      f(b) =    .44209487
```

Fitting reduced model 2:

```
Step 1      f(b) =    .24669032
```

```
Group variable: mun_id      Number of obs      =    1042
Time variable: year      Number of groups    =    81
```

```
Moment conditions:      linear =    54      Obs per group:      min =    10
                        nonlinear =    0      avg =    12.8642
                        total =    54      max =    13
```

(Std. err. adjusted for 81 clusters in mun_id)

l_rpc_d_goods	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_d_goods						
L1.	.3019067	.0692129	4.36	0.000	.1662519	.4375614
L2.	.073084	.0429455	1.70	0.089	-.0110876	.1572557
elec_t	-.0476864	.0612392	-0.78	0.436	-.1677131	.0723402
l_rpc_total_expenses	1.263136	1.167427	1.08	0.279	-1.024979	3.551251
Age	.00641	.0164688	0.39	0.697	-.0258682	.0386882
sex						
Male	.2444268	.3579832	0.68	0.495	-.4572073	.946061
k_12centers	-.0003042	.0037885	-0.08	0.936	-.0077296	.0071212
gdp	3.62e-08	5.69e-08	0.64	0.525	-7.54e-08	1.48e-07
interest_rate	.0374562	.0315129	1.19	0.235	-.0243079	.0992203
debt	-.0021412	.010894	-0.20	0.844	-.0234931	.0192107
deficit	-7.57e-08	1.35e-07	-0.56	0.574	-3.40e-07	1.88e-07
party_type						
National	-2.028626	1.419252	-1.43	0.153	-4.810308	.7530572
Provincial	4.588649	12.34279	0.37	0.710	-19.60277	28.78007
win_margin	.0070887	.0127894	0.55	0.579	-.017978	.0321555
abstentionism	-.0037922	.0236204	-0.16	0.872	-.0500873	.0425028
pop_share014	.1333685	.07884	1.69	0.091	-.0211551	.2878921
pop_share65plus	-.0138833	.1939193	-0.07	0.943	-.393958	.3661915
_cons	-15.85582	14.64164	-1.08	0.279	-44.55292	12.84128

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
```

```
L1.L2.1_rpc_d_goods L2.L2.1_rpc_d_goods L3.L2.1_rpc_d_goods L1.Age L2.Age
L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
L3.k_12centers L1.gdp L2.gdp L3.gdp L3.interest_rate L1.debt L2.debt
L3.debt L1.deficit L2.deficit L3.deficit L1.2bn.party_type
L2.2bn.party_type L3.2bn.party_type L1.3.party_type L2.3.party_type
L3.3.party_type L1.win_margin L2.win_margin L3.win_margin L1.abstentionism
L2.abstentionism L3.abstentionism L1.pop_share014 L2.pop_share014
```

```

L3.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus
L1.l_rpc_total_expenses L2.l_rpc_total_expenses L3.l_rpc_total_expenses
2, model(level):
  D.L1.l_rpc_d_goods D.L2.l_rpc_d_goods D.elec_t D.Age D.2.sex D.k_12centers
  D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(38)    =   35.8097
                                                        Prob > chi2 =   0.5712

```

```

2-step moment functions, 3-step weighting matrix      chi2(38)    =   40.5028
                                                        Prob > chi2 =   0.3605

```

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = **-4.9590** Prob > |z| = **0.0000**
H0: no autocorrelation of order 2: z = **-1.0050** Prob > |z| = **0.3149**

Generalized method of moments estimation

```

Fitting full model:
Step 1          f(b) =   .5185081
Step 2          f(b) =   .59668442

```

```

Fitting reduced model 2:
Step 1          f(b) =   .47170061

```

```

Group variable: mun_id                Number of obs      =   1042
Time variable: year                  Number of groups   =    81

```

```

Moment conditions:      linear =    65      Obs per group:   min =    10
                       nonlinear =    0      avg =   12.8642
                       total =    65      max =    13

```

(Std. err. adjusted for **81** clusters in **mun_id**)

	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_d_goods						
l_rpc_d_goods						
L1.	.3237798	.065245	4.96	0.000	.195902	.4516577
L2.	.0790192	.0518121	1.53	0.127	-.0225306	.1805691
elec_t	-.0470265	.0690199	-0.68	0.496	-.182303	.0882501
l_rpc_total_expenses	1.498602	1.190294	1.26	0.208	-.8343316	3.831536
Age	.0015304	.0136739	0.11	0.911	-.02527	.0283309
sex						
Male	.3165795	.353851	0.89	0.371	-.3769558	1.010115
k_12centers	-.000925	.0043936	-0.21	0.833	-.0095364	.0076864
gdp	2.40e-08	5.61e-08	0.43	0.668	-8.58e-08	1.34e-07
interest_rate	.0143262	.0241283	0.59	0.553	-.0329644	.0616168
_debt	-.0004812	.0119279	-0.04	0.968	-.0238594	.0228971
deficit	-4.30e-08	1.36e-07	-0.32	0.752	-3.09e-07	2.23e-07
party_type						
National	-.7396989	1.009086	-0.73	0.464	-2.71747	1.238073
Provincial	9.070272	9.886473	0.92	0.359	-10.30686	28.4474
win_margin	.0035744	.0114917	0.31	0.756	-.0189489	.0260976
abstentionism	.0118827	.0197879	0.60	0.548	-.0269009	.0506664
pop_share014	.0983701	.0534697	1.84	0.066	-.0064286	.2031687
pop_share65plus	-.1090911	.1434414	-0.76	0.447	-.3902312	.1720489
_cons	-19.60029	15.33758	-1.28	0.201	-49.66139	10.46081

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L2.l_rpc_d_goods L2.L2.l_rpc_d_goods L3.L2.l_rpc_d_goods
  L4.L2.l_rpc_d_goods L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex

```

```

L4.2.sex L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp
L2.gdp L3.gdp L4.gdp L1.debt L3.debt L4.debt L1.deficit L2.deficit
L3.deficit L4.deficit L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type
L4.2bn.party_type L1.3.party_type L2.3.party_type L3.3.party_type
L4.3.party_type L1.win_margin L2.win_margin L3.win_margin L4.win_margin
L1.abstentionism L2.abstentionism L3.abstentionism L4.abstentionism
L1.pop_share014 L2.pop_share014 L3.pop_share014 L4.pop_share014
L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus L4.pop_share65plus
L1.l_rpc_total_expenses L2.l_rpc_total_expenses L3.l_rpc_total_expenses
L4.l_rpc_total_expenses
2, model(level):
  D.L1.rpc_d_goods D.L2.l_rpc_d_goods D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(49)    =    48.3314
                                                         Prob > chi2 =    0.5001

2-step moment functions, 3-step weighting matrix      chi2(49)    =    62.3478
                                                         Prob > chi2 =    0.0954

```

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = -4.9692 Prob > |z| = 0.0000
H0: no autocorrelation of order 2: z = -0.9614 Prob > |z| = 0.3363

Generalized method of moments estimation

```

Fitting full model:
Step 1          f(b) =  1.374e-18
Step 2          f(b) =  4.3607015

```

```

Fitting reduced model 2:
Step 1          f(b) =  8.050e-09

```

```

Group variable: mun_id          Number of obs      =    1131
Time variable:  year           Number of groups   =     81

Moment conditions:      linear =    24      Obs per group:   min =    11
                       nonlinear =    0      avg =   13.96296
                       total =    24      max =    14

```

(Std. err. adjusted for 81 clusters in mun_id)

l_rpc_total_expenses	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_total_expenses						
L1.	-2.91e-09	5.11e-09	-0.57	0.569	-1.29e-08	7.11e-09
elec_t	-8.94e-10	1.01e-09	-0.89	0.375	-2.87e-09	1.08e-09
l_rpc_total_expenses	1	5.70e-09	1.8e+08	0.000	1	1
Age	3.32e-12	1.37e-11	0.24	0.809	-2.35e-11	3.02e-11
sex						
Male	6.33e-11	3.77e-10	0.17	0.867	-6.75e-10	8.01e-10
k_12centers	9.69e-13	8.93e-12	0.11	0.914	-1.65e-11	1.85e-11
gdp	3.66e-17	5.16e-17	0.71	0.478	-6.45e-17	1.38e-16
interest_rate	-1.42e-10	1.23e-10	-1.16	0.248	-3.83e-10	9.88e-11
debt	-1.64e-11
deficit	7.47e-16	6.26e-16	1.19	0.232	-4.79e-16	1.97e-15
party_type						
National	1.15e-09	1.82e-09	0.63	0.528	-2.42e-09	4.72e-09
Provincial	-4.93e-09	1.31e-08	-0.38	0.707	-3.07e-08	2.08e-08
win_margin	-1.81e-11	3.76e-11	-0.48	0.629	-9.18e-11	5.55e-11
abstentionism	-1.32e-11	5.87e-11	-0.22	0.823	-1.28e-10	1.02e-10
pop_share014	-1.03e-10	1.48e-10	-0.70	0.486	-3.93e-10	1.87e-10

pop_share65plus	-4.89e-10	8.55e-10	-0.57	0.567	-2.16e-09	1.19e-09
_cons	0	(omitted)				

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L1.l_rpc_total_expenses L1.Age L1.2.sex L1.k_12centers L1.gdp L1.debt
  L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin L1.abstentionism
  L1.pop_share014 L1.pop_share65plus L1.l_rpc_total_expenses
2, model(level):
  D.L1.l_rpc_total_expenses D.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

[illegible][illegible]

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1:	z =	-0.8818	Prob > z =	0.3779
H0: no autocorrelation of order 2:	z =	-0.8911	Prob > z =	0.3729

Generalized method of moments estimation

```
Fitting full model:
Step 1      f(b) = 1.232e-18
Step 2      f(b) = 1.7484126
```

```
Fitting reduced model 2:
Step 1          f(b) = 23550.867
```

```

Group variable: mun_id           Number of obs   =   1131
Time variable: year           Number of groups =    81

```

Moment conditions:	linear =	38	Obs per group:	min =	11
	nonlinear =	0		avg =	13.96296
	total =	38		max =	14

(Std. err. adjusted for **81** clusters in **mun id**)

l_rpc_total_expenses	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_total_expenses L1.	-9.56e-11	1.52e-09	-0.06	0.950	-3.08e-09	2.89e-09
elec_t	-2.66e-13	6.84e-11	-0.00	0.997	-1.34e-10	1.34e-10
l_rpc_total_expenses Age	1	2.77e-09	3.6e+08	0.000	1	1
Age	-1.08e-12	7.83e-11	-0.01	0.989	-1.55e-10	1.52e-10
sex						
Male	7.01e-11	7.88e-09	0.01	0.993	-1.54e-08	1.55e-08
k_12centers	7.55e-14	1.30e-11	0.01	0.995	-2.54e-11	2.56e-11
gdp	-1.69e-18	7.93e-17	-0.02	0.983	-1.57e-16	1.54e-16
interest_rate	1.70e-12	3.54e-11	0.05	0.962	-6.76e-11	7.10e-11
debt	4.89e-13	1.76e-11	0.03	0.978	-3.40e-11	3.50e-11
deficit	3.51e-18	4.08e-17	0.09	0.931	-7.64e-17	8.34e-17
party_type						
National	3.15e-10	1.76e-08	0.02	0.986	-3.41e-08	3.48e-08
Provincial	-5.33e-10	2.78e-08	-0.02	0.985	-5.50e-08	5.39e-08
win_margin	-5.28e-13	6.49e-11	-0.01	0.994	-1.28e-10	1.27e-10
abstentionism	-2.06e-12	1.20e-10	-0.02	0.986	-2.37e-10	2.32e-10
pop_share014	-2.29e-13	2.58e-11	-0.01	0.993	-5.09e-11	5.04e-11
pop_share65plus	1.13e-11	2.48e-10	0.05	0.964	-4.74e-10	4.97e-10
cons	-3.67e-10	3.32e-08	-0.01	0.991	-6.54e-08	6.46e-08

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L2.L1_rpc_total_expenses L1.Age L2.Age L1.2.sex L2.2.sex L1.k_12centers
  L2.k_12centers L1.gdp L2.gdp L2.interest_rate L1.debt L2.debt L1.deficit
  L2.deficit L1.2bn.party_type L2.2bn.party_type L1.3.party_type
  L2.3.party_type L1.win_margin L2.win_margin L1.abstentionism
  L2.abstentionism L1.pop_share014 L2.pop_share014 L1.pop_share65plus
  L2.pop_share65plus L1.l_rpc_total_expenses L2.l_rpc_total_expenses
2, model(level):
  D.L1_rpc_total_expenses D.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(23) = **141.6214**
 Prob > chi2 = **0.0000**

2-step moment functions, 3-step weighting matrix chi2(23) = **79.3251**
 Prob > chi2 = **0.0000**

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-0.0464** Prob > |z| = **0.9630**

H0: no autocorrelation of order 2: z = **0.1479** Prob > |z| = **0.8824**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **1.084e-16**

Step 2 f(b) = **1.5805493**

Fitting reduced model 2:

Step 1 f(b) = **.02870368**

Group variable: **mun_id** Number of obs = **1131**

Time variable: **year** Number of groups = **81**

Moment conditions: linear = **50** Obs per group: min = **11**
 nonlinear = **0** avg = **13.96296**
 total = **50** max = **14**

(Std. err. adjusted for **81** clusters in **mun_id**)

	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_total_expenses						
l_rpc_total_expenses						
L1.	5.06e-09	3.09e-08	0.16	0.870	-5.55e-08	6.56e-08
elec_t	4.14e-11	4.89e-10	0.08	0.933	-9.17e-10	9.99e-10
l_rpc_total_expenses	1	3.85e-08	2.6e+07	0.000	.9999999	1
Age	-1.08e-11	1.45e-10	-0.07	0.941	-2.95e-10	2.73e-10
sex						
Male	-9.01e-12	2.43e-09	-0.00	0.997	-4.76e-09	4.75e-09
k_12centers	-8.96e-12	7.45e-11	-0.12	0.904	-1.55e-10	1.37e-10
gdp	1.47e-16	9.25e-16	0.16	0.874	-1.67e-15	1.96e-15
interest_rate	-1.37e-10	9.49e-10	-0.14	0.885	-2.00e-09	1.72e-09
debt	-2.79e-11	2.57e-10	-0.11	0.914	-5.31e-10	4.75e-10
deficit	-1.65e-16	1.26e-15	-0.13	0.896	-2.64e-15	2.31e-15
party_type						
National	-9.37e-10	7.56e-09	-0.12	0.901	-1.57e-08	1.39e-08
Provincial	1.26e-09	4.59e-08	0.03	0.978	-8.87e-08	9.13e-08
win_margin	-2.62e-12	7.00e-11	-0.04	0.970	-1.40e-10	1.35e-10
abstentionism	1.93e-11	1.73e-10	0.11	0.911	-3.20e-10	3.58e-10
pop_share014	1.94e-10	1.34e-09	0.14	0.886	-2.44e-09	2.83e-09
pop_share65plus	-1.25e-10	9.74e-10	-0.13	0.898	-2.03e-09	1.78e-09

_cons	1.29e-08	1.05e-07	0.12	0.902	-1.93e-07	2.18e-07
--------------	-----------------	-----------------	-------------	--------------	------------------	-----------------

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L3.L1_rpc_total_expenses L1.Age L2.Age L3.Age L1.2.sex L2.2.sex L3.2.sex
  L1.k_12centers L2.k_12centers L3.k_12centers L1.gdp L2.gdp L3.gdp
  L1.interest_rate L2.interest_rate L3.interest_rate L2.debt L3.debt
  L1.deficit L2.deficit L3.deficit L1.2bn.party_type L2.2bn.party_type
  L3.2bn.party_type L1.3.party_type L2.3.party_type L3.3.party_type
  L1.win_margin L2.win_margin L3.win_margin L1.abstentionism L2.abstentionism
  L3.abstentionism L1.pop_share014 L2.pop_share014 L3.pop_share014
  L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus
  L1.L1_rpc_total_expenses L2.L1_rpc_total_expenses L3.L1_rpc_total_expenses
2, model(level):
  D.L1_rpc_total_expenses D.Age D.2.sex D.k_12centers D.gdp D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(35) = **128.0245**
 Prob > chi2 = **0.0000**

2-step moment functions, 3-step weighting matrix chi2(35) = **80.0103**
 Prob > chi2 = **0.0000**

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-0.1679** Prob > |z| = **0.8667**

H0: no autocorrelation of order 2: z = **0.1756** Prob > |z| = **0.8606**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **3.335e-16**

Step 2 f(b) = **.23086592**

Fitting reduced model 2:

Step 1 f(b) = **.00442504**

Group variable: **mun_id** Number of obs = **1131**
 Time variable: **year** Number of groups = **81**

Moment conditions: linear = **60** Obs per group: min = **11**
 nonlinear = **0** avg = **13.96296**
 total = **60** max = **14**

(Std. err. adjusted for **81** clusters in **mun_id**)

	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_total_expenses						
l_rpc_total_expenses						
L1.	5.83e-09	3.23e-08	0.18	0.857	-5.76e-08	6.92e-08
elec_t	8.70e-12	5.24e-10	0.02	0.987	-1.02e-09	1.04e-09
l_rpc_total_expenses	1	4.01e-08	2.5e+07	0.000	.9999999	1
Age	-1.44e-11	1.86e-10	-0.08	0.938	-3.79e-10	3.50e-10
sex						
Male	2.73e-11	2.39e-09	0.01	0.991	-4.67e-09	4.72e-09
k_12centers	-1.03e-11	6.70e-11	-0.15	0.878	-1.42e-10	1.21e-10
gdp	1.69e-16	9.65e-16	0.18	0.861	-1.72e-15	2.06e-15
interest_rate	-1.64e-10	9.43e-10	-0.17	0.862	-2.01e-09	1.68e-09
debt	-4.47e-11	2.95e-10	-0.15	0.880	-6.23e-10	5.34e-10
deficit	-1.54e-16	9.79e-16	-0.16	0.875	-2.07e-15	1.77e-15
party_type						
National	-1.07e-09	1.69e-08	-0.06	0.950	-3.42e-08	3.20e-08
Provincial	4.78e-10	8.85e-08	0.01	0.996	-1.73e-07	1.74e-07
win_margin	-6.88e-12	1.03e-10	-0.07	0.947	-2.09e-10	1.96e-10

abstentionism	2.27e-11	2.72e-10	0.08	0.933	-5.10e-10	5.56e-10
pop_share014	2.27e-10	1.32e-09	0.17	0.864	-2.37e-09	2.82e-09
pop_share65plus	-1.41e-10	7.44e-10	-0.19	0.849	-1.60e-09	1.32e-09
_cons	1.44e-08	9.66e-08	0.15	0.881	-1.75e-07	2.04e-07

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L1_rpc_total_expenses L4.L1_rpc_total_expenses L1.Age L2.Age L3.Age
 L4.Age L1.2.sex L2.2.sex L3.2.sex L4.2.sex L1.k_12centers L2.k_12centers
 L3.k_12centers L4.k_12centers L1.gdp L2.gdp L3.gdp L4.gdp L4.interest_rate
 L2.debt L3.debt L4.debt L1.deficit L2.deficit L3.deficit L4.deficit
 L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L4.2bn.party_type
 L1.3.party_type L2.3.party_type L3.3.party_type L4.3.party_type
 L1.win_margin L2.win_margin L3.win_margin L4.win_margin L1.abstentionism
 L2.abstentionism L3.abstentionism L4.abstentionism L1.pop_share014
 L2.pop_share014 L3.pop_share014 L4.pop_share014 L1.pop_share65plus
 L2.pop_share65plus L3.pop_share65plus L4.pop_share65plus
 L1.l_rpc_total_expenses L3.l_rpc_total_expenses L4.l_rpc_total_expenses

2, model(level):

D.L1_rpc_total_expenses D.Age D.2.sex D.k_12centers D.gdp D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(45) = 18.7001
 Prob > chi2 = 0.9998

2-step moment functions, 3-step weighting matrix chi2(45) = 79.7372
 Prob > chi2 = 0.0011

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -0.1815 Prob > |z| = 0.8560

H0: no autocorrelation of order 2: z = 0.2003 Prob > |z| = 0.8412

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = 4.997e-19

Step 2 f(b) = .00246623

Fitting reduced model 1:

Step 1 f(b) = 2.310e-07

Fitting reduced model 2:

Step 1 f(b) = 2.348e-08

Group variable: **mun_id** Number of obs = 1051

Time variable: **year** Number of groups = 81

Moment conditions: linear = 25 Obs per group: min = 11
 nonlinear = 0 avg = 12.97531
 total = 25 max = 13

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_total_expenses	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_total_expenses						
L1.	.9401087	5.94e-11	1.6e+10	0.000	.9401087	.9401087
L2.	0	(omitted)				
elec_t	0	(omitted)				
l_rpc_total_expenses	0	(omitted)				
Age	-.0026778	1.68e-12	-1.6e+09	0.000	-.0026778	-.0026778
sex						
Male	.2454504	2.09e-10	1.2e+09	0.000	.2454504	.2454504
k_12centers	-.0006428	6.69e-13	-9.6e+08	0.000	-.0006428	-.0006428
gdp	1.36e-08	3.79e-18	3.6e+09	0.000	1.36e-08	1.36e-08

interest_rate	0	(omitted)				
debt	-0.0072444	3.55e-12	-2.0e+09	0.000	-0.0072444	-0.0072444
deficit	-3.21e-08	6.14e-17	-5.2e+08	0.000	-3.21e-08	-3.21e-08
party_type						
National	0	(omitted)				
Provincial	0	(omitted)				
win_margin	.0027939	1.50e-12	1.9e+09	0.000	.0027939	.0027939
abstentionism	.0003286	9.68e-12	3.4e+07	0.000	.0003286	.0003286
pop_share014	.029516	4.82e-12	6.1e+09	0.000	.029516	.029516
pop_share65plus	.0251021	9.39e-11	2.7e+08	0.000	.0251021	.0251021
_cons	0	(omitted)				

Instruments corresponding to the linear moment conditions:

- 1, model(diff):
 - L1.L2.1_rpc_total_expenses L1.Age L1.2.sex L1.k_12centers L1.gdp
 - L1.interest_rate L1.debt L1.deficit L1.2bn.party_type L1.3.party_type
 - L1.win_margin L1.abstentionism L1.pop_share014 L1.pop_share65plus
 - L1.1_rpc_total_expenses
- 2, model(level):
 - D.L.1_rpc_total_expenses D.L2.1_rpc_total_expenses D.elec_t D.Age D.2.sex
 - D.k_12centers D.gdp D.interest_rate D.deficit
- 3, model(level):
 - _cons

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(16) = 0.1998
Prob > chi2 = 1.0000

2-step moment functions, 3-step weighting matrix chi2(16) = 78.5381
Prob > chi2 = 0.0000

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -4.4995 Prob > |z| = 0.0000
H0: no autocorrelation of order 2: z = 2.2806 Prob > |z| = 0.0226

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = 1.124e-16
Step 2 f(b) = 1.0836917

Fitting reduced model 2:

Step 1 f(b) = .00002355

Group variable: **mun_id** Number of obs = 1051
Time variable: **year** Number of groups = 81

Moment conditions: linear = 40 Obs per group: min = 11
 nonlinear = 0 avg = 12.97531
 total = 40 max = 13

(Std. err. adjusted for 81 clusters in **mun_id**)

	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_total_expenses						
l_rpc_total_expenses						
L1.	-3.30e-09	7.38e-09	-0.45	0.655	-1.78e-08	1.12e-08
L2.	1.88e-09	2.42e-09	0.77	0.439	-2.88e-09	6.63e-09
elec_t	1.91e-11	4.50e-10	0.04	0.966	-8.64e-10	9.02e-10
l_rpc_total_expenses	1	7.32e-09	1.4e+08	0.000	1	1
Age	4.29e-12	2.89e-11	0.15	0.882	-5.24e-11	6.10e-11
sex						
Male	-1.41e-10	9.00e-10	-0.16	0.876	-1.90e-09	1.62e-09
k_12centers	-4.07e-13	2.76e-11	-0.01	0.988	-5.45e-11	5.37e-11
gdp	6.96e-18	2.06e-16	0.03	0.973	-3.96e-16	4.10e-16

interest_rate	4.71e-11	2.26e-10	0.21	0.835	-3.97e-10	4.91e-10
debt	1.75e-12	9.03e-11	0.02	0.985	-1.75e-10	1.79e-10
deficit	1.54e-16	5.35e-16	0.29	0.774	-8.95e-16	1.20e-15
party_type						
National	-3.77e-10	6.22e-09	-0.06	0.952	-1.26e-08	1.18e-08
Provincial	1.43e-09	2.50e-08	0.06	0.954	-4.75e-08	5.03e-08
win_margin	-3.40e-13	5.08e-11	-0.01	0.995	-9.98e-11	9.91e-11
abstentionism	9.89e-12	9.68e-11	0.10	0.919	-1.80e-10	2.00e-10
pop_share014	9.39e-12	2.87e-10	0.03	0.974	-5.52e-10	5.71e-10
pop_share65plus	1.86e-10	5.02e-10	0.37	0.711	-7.98e-10	1.17e-09
_cons	1.14e-09	2.56e-08	0.04	0.964	-4.90e-08	5.13e-08

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L2.l_rpc_total_expenses L2.L2.l_rpc_total_expenses L1.Age L2.Age
  L1.2.sex L2.2.sex L1.k 12centers L2.k 12centers L1.gdp L2.gdp
  L1.interest_rate L2.interest_rate L2.debt L1.deficit L2.deficit
  L1.2bn.party_type L2.2bn.party_type L1.3.party_type L2.3.party_type
  L1.win_margin L2.win_margin L1.abstentionism L2.abstentionism
  L1.pop_share014 L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
  L1.l_rpc_total_expenses L2.l_rpc_total_expenses
2, model(level):
  D.L.l_rpc_total_expenses D.L2.l_rpc_total_expenses D.elec_t D.Age D.2.sex
  D.k 12centers D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(24) = 87.7790
 Prob > chi2 = 0.0000

2-step moment functions, 3-step weighting matrix chi2(24) = 80.0473
 Prob > chi2 = 0.0000

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -0.6232 Prob > |z| = 0.5332
 H0: no autocorrelation of order 2: z = 0.6405 Prob > |z| = 0.5219

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = 8.714e-16
 Step 2 f(b) = .18336361

Fitting reduced model 2:

Step 1 f(b) = .00013461

Group variable: **mun_id** Number of obs = 1051
 Time variable: **year** Number of groups = 81

Moment conditions: linear = 51 Obs per group: min = 11
 nonlinear = 0 avg = 12.97531
 total = 51 max = 13

(Std. err. adjusted for 81 clusters in **mun_id**)

	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_total_expenses						
l_rpc_total_expenses						
L1.	-7.58e-09	2.09e-08	-0.36	0.717	-4.86e-08	3.34e-08
L2.	6.42e-09	1.84e-08	0.35	0.727	-2.97e-08	4.25e-08
elec_t	-2.92e-10	8.51e-10	-0.34	0.732	-1.96e-09	1.38e-09
l_rpc_total_expenses	1	2.83e-09	3.5e+08	0.000	1	1
Age	-2.00e-12	5.52e-11	-0.04	0.971	-1.10e-10	1.06e-10
sex						

Male	-3.26e-11	1.15e-09	-0.03	0.977	-2.30e-09	2.23e-09
k_12centers	-3.83e-12	2.13e-11	-0.18	0.858	-4.57e-11	3.80e-11
gdp	6.99e-17	2.47e-16	0.28	0.777	-4.14e-16	5.54e-16
interest_rate	3.34e-11	1.29e-10	0.26	0.797	-2.20e-10	2.87e-10
debt	-2.58e-11	9.46e-11	-0.27	0.785	-2.11e-10	1.60e-10
deficit	6.00e-16	1.67e-15	0.36	0.719	-2.67e-15	3.87e-15
party_type						
National	-1.08e-09	5.33e-09	-0.20	0.839	-1.15e-08	9.37e-09
Provincial	6.34e-09	8.12e-08	0.08	0.938	-1.53e-07	1.65e-07
win_margin	1.20e-11	8.35e-11	0.14	0.886	-1.52e-10	1.76e-10
abstentionism	3.04e-11	1.51e-10	0.20	0.841	-2.66e-10	3.27e-10
pop_share014	8.87e-12	1.58e-10	0.06	0.955	-3.00e-10	3.18e-10
pop_share65plus	-8.24e-11	2.67e-10	-0.31	0.758	-6.05e-10	4.41e-10
_cons	1.82e-09	2.61e-08	0.07	0.945	-4.94e-08	5.31e-08

Instruments corresponding to the linear moment conditions:

1, model(diff):

L2.L2.1_rpc_total_expenses L3.L2.1_rpc_total_expenses L1.Age L2.Age L3.Age
 L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers L3.k_12centers
 L1.gdp L2.gdp L3.gdp L2.interest_rate L3.interest_rate L2.debt L3.debt
 L1.deficit L2.deficit L3.deficit L1.2bn.party_type L2.2bn.party_type
 L3.2bn.party_type L1.3.party_type L2.3.party_type L3.3.party_type
 L1.win_margin L2.win_margin L3.win_margin L1.abstentionism L2.abstentionism
 L3.abstentionism L1.pop_share014 L2.pop_share014 L3.pop_share014
 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus
 L1.1_rpc_total_expenses L2.1_rpc_total_expenses L3.1_rpc_total_expenses

2, model(level):

D.L.1_rpc_total_expenses D.L2.1_rpc_total_expenses D.Age D.2.sex
 D.k_12centers D.gdp D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(35) = 14.8525
 Prob > chi2 = 0.9989

2-step moment functions, 3-step weighting matrix chi2(35) = 80.2419
 Prob > chi2 = 0.0000

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -0.3718 Prob > |z| = 0.7100

H0: no autocorrelation of order 2: z = 0.3805 Prob > |z| = 0.7036

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = 5.745e-16

Step 2 f(b) = .22162424

Fitting reduced model 2:

Step 1 f(b) = 321.70942

Group variable: mun_id Number of obs = 1051
 Time variable: year Number of groups = 81

Moment conditions: linear = 61 Obs per group: min = 11
 nonlinear = 0 avg = 12.97531
 total = 61 max = 13

(Std. err. adjusted for 81 clusters in `mun_id`)

<code>l_rpc_total_expenses</code>	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
<code>l_rpc_total_expenses</code>						
L1.	-1.21e-10	3.27e-09	-0.04	0.970	-6.54e-09	6.29e-09
L2.	1.96e-10	6.01e-09	0.03	0.974	-1.16e-08	1.20e-08
elec_t	-1.76e-11	3.39e-10	-0.05	0.959	-6.81e-10	6.46e-10
<code>l_rpc_total_expenses</code>	1	3.19e-09	3.1e+08	0.000	1	1
Age	-7.66e-13	1.73e-11	-0.04	0.965	-3.47e-11	3.31e-11
sex						
Male	-1.95e-14	7.13e-10	-0.00	1.000	-1.40e-09	1.40e-09
k_12centers	-1.97e-13	7.67e-12	-0.03	0.979	-1.52e-11	1.48e-11
gdp	3.86e-18	1.78e-16	0.02	0.983	-3.45e-16	3.53e-16
interest_rate	-6.75e-13	9.05e-11	-0.01	0.994	-1.78e-10	1.77e-10
debt	-3.47e-12	7.13e-11	-0.05	0.961	-1.43e-10	1.36e-10
deficit	1.75e-17	5.99e-16	0.03	0.977	-1.16e-15	1.19e-15
party_type						
National	-5.74e-11	3.01e-09	-0.02	0.985	-5.96e-09	5.84e-09
Provincial	-5.09e-10	2.52e-08	-0.02	0.984	-4.99e-08	4.88e-08
win_margin	-1.41e-13	1.94e-11	-0.01	0.994	-3.82e-11	3.79e-11
abstentionism	1.89e-12	1.02e-10	0.02	0.985	-1.97e-10	2.01e-10
pop_share014	4.78e-12	1.49e-10	0.03	0.974	-2.88e-10	2.98e-10
pop_share65plus	-7.98e-13	1.45e-10	-0.01	0.996	-2.85e-10	2.84e-10
_cons	7.47e-11	7.81e-09	0.01	0.992	-1.52e-08	1.54e-08

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L3.L2.l_rpc_total_expenses L4.L2.l_rpc_total_expenses L1.Age L2.Age L3.Age
  L4.Age L1.2.sex L2.2.sex L3.2.sex L4.2.sex L1.k_12centers L2.k_12centers
  L3.k_12centers L4.k_12centers L1.gdp L2.gdp L3.gdp L4.gdp L2.debt L3.debt
  L4.debt L1.deficit L2.deficit L3.deficit L4.deficit L1.2bn.party_type
  L2.2bn.party_type L3.2bn.party_type L4.2bn.party_type L1.3.party_type
  L2.3.party_type L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin
  L3.win_margin L4.win_margin L1.abstentionism L2.abstentionism
  L3.abstentionism L4.abstentionism L1.pop_share014 L2.pop_share014
  L3.pop_share014 L4.pop_share014 L1.pop_share65plus L2.pop_share65plus
  L3.pop_share65plus L4.pop_share65plus L1.l_rpc_total_expenses
  L2.l_rpc_total_expenses L3.l_rpc_total_expenses L4.l_rpc_total_expenses
2, model(level):
  D.L.l_rpc_total_expenses D.L2.l_rpc_total_expenses D.Age D.2.sex
  D.k_12centers D.gdp D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(45)    =    17.9516
                                                        Prob > chi2 =    0.9999

```

```

2-step moment functions, 3-step weighting matrix      chi2(45)    =    80.6365
                                                        Prob > chi2 =    0.0009

```

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -0.0118 Prob > |z| = 0.9906

H0: no autocorrelation of order 2: z = 0.0277 Prob > |z| = 0.9779

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .0071926

Step 2 f(b) = .25873717

Fitting reduced model 2:

Step 1 f(b) = 7.618e-21

Group variable: **mun_id** Number of obs = **1125**
Time variable: **year** Number of groups = **81**

Moment conditions: linear = **25** Obs per group: min = **11**
nonlinear = **0** avg = **13.88889**
total = **25** max = **14**

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_remu_bas	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_remu_bas						
L1.	.7786777	.1595616	4.88	0.000	.4659428	1.091413
elec_t	-.0268739	.0253207	-1.06	0.289	-.0765016	.0227539
l_rpc_total_expenses	.104635	.1466766	0.71	0.476	-.1828459	.3921159
Age	.0019169	.0027773	0.69	0.490	-.0035266	.0073603
sex						
Male	-.0655246	.0629701	-1.04	0.298	-.1889436	.0578945
k_12centers	-.0004983	.0006882	-0.72	0.469	-.0018472	.0008506
gdp	1.17e-08	1.27e-08	0.92	0.358	-1.32e-08	3.65e-08
interest_rate	-.0096644	.0074093	-1.30	0.192	-.0241864	.0048577
debt	-.0062492	.0022285	-2.80	0.005	-.0106169	-.0018815
deficit	5.07e-08	2.39e-08	2.13	0.034	3.95e-09	9.74e-08
party_type						
National	.1439216	.1653921	0.87	0.384	-.180241	.4680842
Provincial	3.299071	2.485095	1.33	0.184	-1.571625	8.169767
win_margin	-.0003011	.0029196	-0.10	0.918	-.0060234	.0054212
abstentionism	.0103959	.0049621	2.10	0.036	.0006704	.0201215
pop_share014	.0151539	.0164355	0.92	0.357	-.0170591	.0473669
pop_share65plus	.0528359	.0292263	1.81	0.071	-.0044465	.1101184
_cons	-.8068304	2.446518	-0.33	0.742	-5.601918	3.988257

Instruments corresponding to the linear moment conditions:

- 1, model(diff):
L1.L1_rpc_remu_bas L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
L1.abstentionism L1.pop_share014 L1.pop_share65plus L1.l_rpc_total_expenses
- 2, model(level):
D.L1_rpc_remu_bas D.elec_t D.Age D.2.sex D.k_12centers D.gdp
D.interest_rate D.debt D.deficit
- 3, model(level):
_cons

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(10) = **20.9577**
Prob > chi2 = **0.0214**

2-step moment functions, 3-step weighting matrix chi2(10) = **26.2773**
Prob > chi2 = **0.0034**

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = **-3.9183** Prob > |z| = **0.0001**
H0: no autocorrelation of order 2: z = **-0.6136** Prob > |z| = **0.5395**

Generalized method of moments estimation

Fitting full model:
Step 1 f(b) = **.0168072**
Step 2 f(b) = **.48842649**

Fitting reduced model 2:
Step 1 f(b) = **.3054245**

Group variable: **mun_id** Number of obs = **1125**
 Time variable: **year** Number of groups = **81**

Moment conditions: linear = **40** Obs per group: min = **11**
 nonlinear = **0** avg = **13.88889**
 total = **40** max = **14**

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_remu_bas	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_remu_bas						
L1.	.6876511	.116339	5.91	0.000	.459631	.9156713
elec_t	-.024273	.0152113	-1.60	0.111	-.0540866	.0055406
l_rpc_total_expenses	.0750054	.085699	0.88	0.381	-.0929615	.2429724
Age	.0007681	.0021188	0.36	0.717	-.0033846	.0049208
sex						
Male	.0046813	.0574163	0.08	0.935	-.1078525	.1172152
k_12centers	-.0007066	.0005673	-1.25	0.213	-.0018184	.0004053
gdp	1.54e-08	5.45e-09	2.83	0.005	4.76e-09	2.61e-08
interest_rate	-.0091079	.0059126	-1.54	0.123	-.0206964	.0024806
debt	-.0057422	.0011181	-5.14	0.000	-.0079337	-.0035507
deficit	5.53e-08	2.25e-08	2.46	0.014	1.12e-08	9.93e-08
party_type						
National	.2771359	.2308521	1.20	0.230	-.1753259	.7295977
Provincial	.7845632	1.280986	0.61	0.540	-1.726123	3.29525
win_margin	-.0022708	.0040521	-0.56	0.575	-.0102127	.0056712
abstentionism	.006395	.0037565	1.70	0.089	-.0009676	.0137577
pop_share014	.0150712	.0106916	1.41	0.159	-.005884	.0360263
pop_share65plus	.0479216	.0163724	2.93	0.003	.0158323	.0800109
_cons	.5859361	1.384476	0.42	0.672	-2.127586	3.299459

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L1_rpc_remu_bas L2.L1_rpc_remu_bas L1.Age L2.Age L1.2.sex L2.2.sex
 L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
 L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
 L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
 L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
 L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
 L1.l_rpc_total_expenses L2.l_rpc_total_expenses

2, model(level):

D.L1_rpc_remu_bas D.elec_t D.Age D.2.sex D.k_12centers D.gdp
 D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(25) = **39.5625**
 Prob > chi2 = **0.0323**

2-step moment functions, 3-step weighting matrix chi2(25) = **44.0866**
 Prob > chi2 = **0.0106**

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-3.9173** Prob > |z| = **0.0001**
 H0: no autocorrelation of order 2: z = **-0.4345** Prob > |z| = **0.6639**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.03123526**
 Step 2 f(b) = **.63717098**

Fitting reduced model 2:
Step 1 f(b) = **.6094406**

Group variable: **mun_id** Number of obs = **1125**
Time variable: **year** Number of groups = **81**

Moment conditions: linear = **54** Obs per group: min = **11**
nonlinear = **0** avg = **13.88889**
total = **54** max = **14**

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_remu_bas	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_remu_bas L1.	.6628438	.103741	6.39	0.000	.4595151	.8661724
elec_t	-.0184961	.0151192	-1.22	0.221	-.0481293	.0111371
l_rpc_total_expenses	.1510674	.106137	1.42	0.155	-.0569573	.3590921
Age	.0016339	.0023073	0.71	0.479	-.0028884	.0061562
sex						
Male	.0414235	.0548808	0.75	0.450	-.0661409	.1489878
k_12centers	-.0001359	.0006097	-0.22	0.824	-.0013309	.0010591
gdp	1.15e-08	6.57e-09	1.75	0.079	-1.35e-09	2.44e-08
interest_rate	-.007872	.0056287	-1.40	0.162	-.0189041	.00316
debt	-.0048747	.0012801	-3.81	0.000	-.0073836	-.0023658
deficit	5.19e-08	2.20e-08	2.36	0.018	8.83e-09	9.49e-08
party_type						
National	.3654654	.2350465	1.55	0.120	-.0952174	.8261481
Provincial	-.6385902	1.543738	-0.41	0.679	-3.66426	2.38708
win_margin	-.0029656	.0036237	-0.82	0.413	-.0100679	.0041367
abstentionism	.0040226	.0038425	1.05	0.295	-.0035085	.0115538
pop_share014	.0119966	.0109751	1.09	0.274	-.0095142	.0335075
pop_share65plus	.0420195	.022592	1.86	0.063	-.00226	.086299
_cons	-.2546941	1.532	-0.17	0.868	-3.25736	2.747972

Instruments corresponding to the linear moment conditions:

- 1, model(diff):
L1.L1.rpc_remu_bas L2.L1.rpc_remu_bas L3.L1.rpc_remu_bas L1.Age L2.Age
L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
L3.k_12centers L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate
L3.interest_rate L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit
L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L1.3.party_type
L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
L1.abstentionism L2.abstentionism L3.abstentionism L1.pop_share014
L2.pop_share014 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus
L3.pop_share65plus L1.l_rpc_total_expenses L2.l_rpc_total_expenses
L3.l_rpc_total_expenses
- 2, model(level):
D.L1.rpc_remu_bas D.Age D.2.sex D.k_12centers D.gdp D.interest_rate D.debt
D.deficit
- 3, model(level):
_cons

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(39) = **51.6108**
Prob > chi2 = **0.0851**

2-step moment functions, 3-step weighting matrix chi2(39) = **62.9033**
Prob > chi2 = **0.0090**

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = **-3.8391** Prob > |z| = **0.0001**
H0: no autocorrelation of order 2: z = **-0.3022** Prob > |z| = **0.7625**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .03380134

Step 2 f(b) = .75569374

Fitting reduced model 2:

Step 1 f(b) = .67722205

Group variable: **mun_id** Number of obs = 1125Time variable: **year** Number of groups = 81

Moment conditions:	linear =	65	Obs per group:	min =	11
	nonlinear =	0		avg =	13.88889
	total =	65		max =	14

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_remu_bas	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_remu_bas						
L1.	.6514313	.0963905	6.76	0.000	.4625095	.8403532
elec_t	-.0182617	.0153011	-1.19	0.233	-.0482513	.0117278
l_rpc_total_expenses	.1948086	.1030837	1.89	0.059	-.0072317	.3968488
Age	.0014336	.0025838	0.55	0.579	-.0036305	.0064978
sex						
Male	.0391771	.060631	0.65	0.518	-.0796574	.1580115
k_12centers	.0001478	.000628	0.24	0.814	-.0010831	.0013787
gdp	9.31e-09	6.51e-09	1.43	0.153	-3.46e-09	2.21e-08
interest_rate	-.0048121	.004777	-1.01	0.314	-.0141749	.0045507
debt	-.0047521	.0013987	-3.40	0.001	-.0074934	-.0020108
deficit	5.85e-08	2.25e-08	2.59	0.009	1.43e-08	1.03e-07
party_type						
National	.3815707	.239045	1.60	0.110	-.0869488	.8500902
Provincial	-.0718214	1.151759	-0.06	0.950	-2.329228	2.185585
win_margin	-.0015673	.0021271	-0.74	0.461	-.0057363	.0026018
abstentionism	.0041143	.0035908	1.15	0.252	-.0029237	.0111522
pop_share014	.0072667	.0104138	0.70	0.485	-.0131441	.0276774
pop_share65plus	.0408019	.0238951	1.71	0.088	-.0060316	.0876354
_cons	-.6877862	1.409819	-0.49	0.626	-3.45098	2.075408

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L.1_rpc_remu_bas L2.L.1_rpc_remu_bas L3.L.1_rpc_remu_bas
 L4.L.1_rpc_remu_bas L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex
 L4.2.sex L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp
 L2.gdp L3.gdp L4.gdp L4.interest_rate L2.debt L3.debt L4.debt L1.deficit
 L2.deficit L3.deficit L4.deficit L1.2bn.party_type L2.2bn.party_type
 L3.2bn.party_type L4.2bn.party_type L1.3.party_type L2.3.party_type
 L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin L3.win_margin
 L4.win_margin L1.abstentionism L2.abstentionism L3.abstentionism
 L4.abstentionism L1.pop_share014 L2.pop_share014 L3.pop_share014
 L4.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus
 L4.pop_share65plus L1.l_rpc_total_expenses L2.l_rpc_total_expenses
 L3.l_rpc_total_expenses L4.l_rpc_total_expenses

2, model(level):

D.L.1_rpc_remu_bas D.Age D.2.sex D.k_12centers D.gdp D.interest_rate D.debt
 D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix	chi2(50)	=	61.2112
	Prob > chi2	=	0.1330

2-step moment functions, 3-step weighting matrix $\chi^2(50) = 71.6208$
 Prob > $\chi^2 = 0.0241$

Arellano-Bond test for autocorrelation of the first-differenced residuals
 H0: no autocorrelation of order 1: $z = -3.7545$ Prob > $|z| = 0.0002$
 H0: no autocorrelation of order 2: $z = -0.3299$ Prob > $|z| = 0.7415$

Generalized method of moments estimation

Fitting full model:

Step 1 $f(b) = .00905316$
 Step 2 $f(b) = .15535589$

Fitting reduced model 2:

Step 1 $f(b) = 6.015e-19$

Group variable: **mun_id** Number of obs = 1042
 Time variable: **year** Number of groups = 81

Moment conditions: linear = 26 Obs per group: min = 10
 nonlinear = 0 avg = 12.8642
 total = 26 max = 13

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_remu_bas	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_remu_bas						
L1.	.7831487	.1510632	5.18	0.000	.4870703	1.079227
L2.	.0550665	.0641567	0.86	0.391	-.0706782	.1808113
elec_t	-.0385685	.0175993	-2.19	0.028	-.0730625	-.0040744
l_rpc_total_expenses	.2716705	.2730954	0.99	0.320	-.2635865	.8069276
Age	.0030322	.0035088	0.86	0.387	-.0038448	.0099092
sex						
Male	-.0422725	.0888355	-0.48	0.634	-.2163869	.1318418
k_12centers	.0001325	.0009259	0.14	0.886	-.0016823	.0019473
gdp	1.08e-08	1.63e-08	0.66	0.508	-2.12e-08	4.28e-08
interest_rate	-.0107734	.0076484	-1.41	0.159	-.0257639	.0042171
_debt	-.0103592	.0036076	-2.87	0.004	-.0174301	-.0032884
deficit	8.88e-08	2.49e-08	3.57	0.000	4.01e-08	1.38e-07
party_type						
National	.18749	.3918262	0.48	0.632	-.5804753	.9554553
Provincial	-1.313633	3.234186	-0.41	0.685	-7.652521	5.025255
win_margin	-.000683	.0032285	-0.21	0.832	-.0070106	.0056447
abstentionism	.0112411	.0054256	2.07	0.038	.000607	.0218751
pop_share014	.0133479	.0212757	0.63	0.530	-.0283518	.0550475
pop_share65plus	.0789626	.0242186	3.26	0.001	.0314949	.1264302
_cons	-3.946359	3.189978	-1.24	0.216	-10.1986	2.305883

Instruments corresponding to the linear moment conditions:

1, model(diff):
 L1.L2.l_rpc_remu_bas L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
 L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
 L1.abstentionism L1.pop_share014 L1.pop_share65plus L1.l_rpc_total_expenses
 2, model(level):
 D.L.l_rpc_remu_bas D.L2.l_rpc_remu_bas D.elec_t D.Age D.2.sex D.k_12centers
 D.gdp D.interest_rate D.debt D.deficit
 3, model(level):
 _cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix $\chi^2(10) = 12.5838$
 Prob > $\chi^2 = 0.2479$

2-step moment functions, 3-step weighting matrix $\chi^2(10) = 16.1625$
 Prob > $\chi^2 = 0.0951$

Arellano-Bond test for autocorrelation of the first-differenced residuals
 H0: no autocorrelation of order 1: $z = -3.3628$ Prob > $|z| = 0.0008$
 H0: no autocorrelation of order 2: $z = -1.4422$ Prob > $|z| = 0.1493$

Generalized method of moments estimation

Fitting full model:

Step 1 $f(b) = .0184484$
 Step 2 $f(b) = .38460223$

Fitting reduced model 2:

Step 1 $f(b) = .24597549$

Group variable: **mun_id** Number of obs = 1042
 Time variable: **year** Number of groups = 81

Moment conditions: linear = 41 Obs per group: min = 10
 nonlinear = 0 avg = 12.8642
 total = 41 max = 13

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_remu_bas	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_remu_bas						
L1.	.5872291	.1482498	3.96	0.000	.2966649	.8777933
L2.	-.0431871	.0634287	-0.68	0.496	-.1675051	.0811309
elec_t	-.0426118	.0151129	-2.82	0.005	-.0722324	-.0129911
l_rpc_total_expenses	.4333603	.177566	2.44	0.015	.0853374	.7813832
Age	.0048649	.0027972	1.74	0.082	-.0006174	.0103473
sex						
Male	.0114388	.082575	0.14	0.890	-.1504053	.1732829
k_12centers	.0012029	.0010255	1.17	0.241	-.0008071	.0032128
gdp	1.06e-09	8.02e-09	0.13	0.895	-1.47e-08	1.68e-08
interest_rate	-.0036804	.0053808	-0.68	0.494	-.0142267	.0068659
debt	-.0058883	.001605	-3.67	0.000	-.009034	-.0027425
deficit	8.19e-08	1.98e-08	4.14	0.000	4.31e-08	1.21e-07
party_type						
National	.2630322	.3264634	0.81	0.420	-.3768242	.9028887
Provincial	-3.795293	3.169314	-1.20	0.231	-10.00703	2.416448
win_margin	-.002105	.0032543	-0.65	0.518	-.0084833	.0042733
abstentionism	.0080814	.0052759	1.53	0.126	-.0022591	.018422
pop_share014	-.010894	.0169827	-0.64	0.521	-.0441795	.0223914
pop_share65plus	.0659325	.0225682	2.92	0.003	.0216996	.1101654
_cons	-3.118054	2.034148	-1.53	0.125	-7.104912	.8688031

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.l_rpc_remu_bas L2.L2.l_rpc_remu_bas L1.Age L2.Age L1.2.sex L2.2.sex
 L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
 L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
 L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
 L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
 L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
 L1.l_rpc_total_expenses L2.l_rpc_total_expenses

2, model(level):

D.L.l_rpc_remu_bas D.L2.l_rpc_remu_bas D.elec_t D.Age D.2.sex D.k_12centers
 D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(25) = 31.1528
 Prob > chi2 = 0.1840

2-step moment functions, 3-step weighting matrix chi2(25) = 54.7220
 Prob > chi2 = 0.0005

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -3.2201 Prob > |z| = 0.0013
 H0: no autocorrelation of order 2: z = 0.3465 Prob > |z| = 0.7290

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .02855105
 Step 2 f(b) = .56691662

Fitting reduced model 2:

Step 1 f(b) = .38429223

Group variable: **mun_id** Number of obs = 1042
 Time variable: **year** Number of groups = 81

Moment conditions: linear = 54 Obs per group: min = 10
 nonlinear = 0 avg = 12.8642
 total = 54 max = 13

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_remu_bas	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_remu_bas						
L1.	.6387705	.1095037	5.83	0.000	.4241471	.8533939
L2.	-.0267357	.067204	-0.40	0.691	-.1584532	.1049818
elec_t	-.024838	.0162418	-1.53	0.126	-.0566713	.0069953
l_rpc_total_expenses	.1636804	.1484628	1.10	0.270	-.1273012	.4546621
Age	.0017595	.0025659	0.69	0.493	-.0032695	.0067885
sex						
Male	.0515373	.0539869	0.95	0.340	-.0542752	.1573497
k_12centers	.0001106	.0006613	0.17	0.867	-.0011855	.0014067
gdp	1.29e-08	6.51e-09	1.98	0.048	1.39e-10	2.56e-08
interest_rate	-.007829	.0046674	-1.68	0.093	-.016977	.001319
debt	-.0057891	.0013511	-4.28	0.000	-.0084372	-.003141
deficit	6.39e-08	2.22e-08	2.88	0.004	2.05e-08	1.07e-07
party_type						
National	.383524	.2712534	1.41	0.157	-.1481229	.9151709
Provincial	-2.309663	2.304016	-1.00	0.316	-6.825451	2.206125
win_margin	-.0002585	.0034767	-0.07	0.941	-.0070727	.0065557
abstentionism	.0033153	.0045126	0.73	0.463	-.0055291	.0121598
pop_share014	.0043449	.0167671	0.26	0.796	-.028518	.0372078
pop_share65plus	.0414837	.0245866	1.69	0.092	-.0067052	.0896726
_cons	.2343033	2.201745	0.11	0.915	-4.081038	4.549644

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.1_rpc_remu_bas L2.L2.1_rpc_remu_bas L3.L2.1_rpc_remu_bas L1.Age
 L2.Age L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
 L3.k_12centers L1.gdp L2.gdp L3.gdp L3.interest_rate L1.debt L2.debt
 L3.debt L1.deficit L2.deficit L3.deficit L1.2bn.party_type
 L2.2bn.party_type L3.2bn.party_type L1.3.party_type L2.3.party_type
 L3.3.party_type L1.win_margin L2.win_margin L3.win_margin L1.abstentionism
 L2.abstentionism L3.abstentionism L1.pop_share014 L2.pop_share014
 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus
 L1.l_rpc_total_expenses L2.l_rpc_total_expenses L3.l_rpc_total_expenses

2, model(level):

D.L.1_rpc_remu_bas D.L2.1_rpc_remu_bas D.elec_t D.Age D.2.sex D.k_12centers
 D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(38) = 45.9202
Prob > chi2 = 0.1769

2-step moment functions, 3-step weighting matrix chi2(38) = 61.9957
Prob > chi2 = 0.0083

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -4.2188 Prob > |z| = 0.0000
H0: no autocorrelation of order 2: z = 0.2250 Prob > |z| = 0.8220

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .03254062
Step 2 f(b) = .62823332

Fitting reduced model 2:

Step 1 f(b) = .48684523

Group variable: **mun_id** Number of obs = 1042
Time variable: **year** Number of groups = 81

Moment conditions: linear = 65 Obs per group: min = 10
 nonlinear = 0 avg = 12.8642
 total = 65 max = 13

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_remu_bas	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_remu_bas						
L1.	.6114679	.0915748	6.68	0.000	.4319846	.7909512
L2.	-.0249117	.064432	-0.39	0.699	-.1511961	.1013728
elec_t	-.0282156	.0157818	-1.79	0.074	-.0591473	.0027161
l_rpc_total_expenses	.2305828	.1269699	1.82	0.069	-.0182737	.4794393
Age	.0014622	.002382	0.61	0.539	-.0032063	.0061308
sex						
Male	.0586459	.0582099	1.01	0.314	-.0554435	.1727352
k_12centers	.0003102	.0006217	0.50	0.618	-.0009082	.0015286
gdp	1.12e-08	6.49e-09	1.72	0.085	-1.56e-09	2.39e-08
interest_rate	-.0053985	.0039948	-1.35	0.177	-.0132281	.0024311
debt	-.0058678	.0014558	-4.03	0.000	-.0087211	-.0030145
deficit	7.29e-08	2.18e-08	3.35	0.001	3.03e-08	1.16e-07
party_type						
National	.3694013	.2179942	1.69	0.090	-.0578595	.796662
Provincial	-1.378144	1.644503	-0.84	0.402	-4.601311	1.845023
win_margin	-.0015664	.0021184	-0.74	0.460	-.0057183	.0025856
abstentionism	.0048953	.0041559	1.18	0.239	-.0032501	.0130408
pop_share014	-.0015191	.014251	-0.11	0.915	-.0294506	.0264124
pop_share65plus	.0405262	.0241444	1.68	0.093	-.006796	.0878484
_cons	-.4379026	1.872072	-0.23	0.815	-4.107096	3.231291

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.1_rpc_remu_bas L2.L2.1_rpc_remu_bas L3.L2.1_rpc_remu_bas
L4.L2.1_rpc_remu_bas L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex
L4.2.sex L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp
L2.gdp L3.gdp L4.gdp L1.debt L3.debt L4.debt L1.deficit L2.deficit
L3.deficit L4.deficit L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type
L4.2bn.party_type L1.3.party_type L2.3.party_type L3.3.party_type
L4.3.party_type L1.win_margin L2.win_margin L3.win_margin L4.win_margin
L1.abstentionism L2.abstentionism L3.abstentionism L4.abstentionism

```

L1.pop_share014 L2.pop_share014 L3.pop_share014 L4.pop_share014
L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus L4.pop_share65plus
L1.l_rpc_total_expenses L2.l_rpc_total_expenses L3.l_rpc_total_expenses
L4.l_rpc_total_expenses
2, model(level):
  D.L1.l_rpc_remu_bas D.L2.l_rpc_remu_bas D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(49)    =    50.8869
                                                         Prob > chi2 =    0.3992

```

```

2-step moment functions, 3-step weighting matrix      chi2(49)    =    71.2336
                                                         Prob > chi2 =    0.0207

```

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = **-4.1621** Prob > |z| = **0.0000**
H0: no autocorrelation of order 2: z = **0.2382** Prob > |z| = **0.8118**

Generalized method of moments estimation

```

Fitting full model:
Step 1          f(b) =  .01755961
Step 2          f(b) =  .1960708

```

```

Fitting reduced model 2:
Step 1          f(b) =  5.546e-22

```

```

Group variable: mun_id          Number of obs      =    1125
Time variable: year            Number of groups   =     81

```

```

Moment conditions:      linear =    25      Obs per group:   min =    11
                        nonlinear =    0      avg =   13.88889
                        total =    25      max =    14

```

(Std. err. adjusted for 81 clusters in mun_id)

l_rpc_remu_ev	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_remu_ev						
L1.	.5032794	.1217382	4.13	0.000	.2646768	.7418819
elec_t	-.043356	.0252241	-1.72	0.086	-.0927943	.0060824
l_rpc_total_expenses	-.5213135	.2157874	-2.42	0.016	-.944249	-.098378
Age	.0064762	.0046884	1.38	0.167	-.0027129	.0156653
sex						
Male	-.2809651	.1244256	-2.26	0.024	-.5248347	-.0370955
k_12centers	-.0004079	.0011452	-0.36	0.722	-.0026524	.0018365
gdp	3.40e-08	9.96e-09	3.42	0.001	1.45e-08	5.36e-08
interest_rate	-.0055063	.0095963	-0.57	0.566	-.0243147	.0133021
debt	-.0119762	.0034101	-3.51	0.000	-.0186598	-.0052926
deficit	1.26e-07	4.91e-08	2.56	0.010	2.97e-08	2.22e-07
party_type						
National	.1252368	.2669949	0.47	0.639	-.3980636	.6485372
Provincial	1.046291	3.581035	0.29	0.770	-5.97241	8.064991
win_margin	.0001982	.004046	0.05	0.961	-.0077318	.0081282
abstentionism	.0102063	.0070255	1.45	0.146	-.0035633	.023976
pop_share014	.0178677	.0121793	1.47	0.142	-.0060033	.0417387
pop_share65plus	.1595776	.0442321	3.61	0.000	.0728843	.246271
_cons	9.060407	3.221833	2.81	0.005	2.74573	15.37508

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L1.l_rpc_remu_ev L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate

```

```

L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
L1.abstentionism L1.pop_share014 L1.pop_share65plus L1.l_rpc_total_expenses
2, model(level):
  D.L.l_rpc_remu_ev D.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(10) = **15.8817**
Prob > chi2 = **0.1031**

2-step moment functions, 3-step weighting matrix chi2(10) = **16.3917**
Prob > chi2 = **0.0890**

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = **-3.4997** Prob > |z| = **0.0005**
H0: no autocorrelation of order 2: z = **0.7591** Prob > |z| = **0.4478**

Generalized method of moments estimation

Fitting full model:
Step 1 f(b) = **.0358282**
Step 2 f(b) = **.50330342**

Fitting reduced model 2:
Step 1 f(b) = **.3285855**

Group variable: **mun_id** Number of obs = **1125**
Time variable: **year** Number of groups = **81**

Moment conditions: linear = **40** Obs per group: min = **11**
 nonlinear = **0** avg = **13.88889**
 total = **40** max = **14**

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_remu_ev	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_remu_ev						
L1.	.5331511	.1319514	4.04	0.000	.274531	.7917711
elec_t	-.0219115	.0241406	-0.91	0.364	-.0692263	.0254033
l_rpc_total_expenses	-.1613559	.2226633	-0.72	0.469	-.5977679	.2750561
Age	.0010019	.0044661	0.22	0.823	-.0077514	.0097552
sex						
Male	-.0893776	.1163773	-0.77	0.442	-.317473	.1387178
k_12centers	-.0007992	.000881	-0.91	0.364	-.002526	.0009275
gdp	2.59e-08	1.18e-08	2.19	0.028	2.74e-09	4.90e-08
interest_rate	-.0187878	.0084384	-2.23	0.026	-.0353267	-.0022489
debt	-.0074859	.001947	-3.84	0.000	-.011302	-.0036698
deficit	6.07e-08	3.29e-08	1.84	0.065	-3.85e-09	1.25e-07
party_type						
National	.1828878	.2671997	0.68	0.494	-.340814	.7065896
Provincial	2.308846	2.923362	0.79	0.430	-3.420838	8.03853
win_margin	-.0005043	.0040019	-0.13	0.900	-.0083478	.0073391
abstentionism	.0054842	.0065236	0.84	0.401	-.0073018	.0182701
pop_share014	.0208668	.0113177	1.84	0.065	-.0013155	.043049
pop_share65plus	.069565	.0342782	2.03	0.042	.0023809	.1367491
_cons	4.325607	3.366047	1.29	0.199	-2.271723	10.92294

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L.l_rpc_remu_ev L2.L.l_rpc_remu_ev L1.Age L2.Age L1.2.sex L2.2.sex
  L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
  L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type

```

```

L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
L1.l_rpc_total_expenses L2.l_rpc_total_expenses
2, model(level):
  D.L.l_rpc_remu_ev D.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(25)    =    40.7676
                                                        Prob > chi2 =    0.0243

```

```

2-step moment functions, 3-step weighting matrix      chi2(25)    =    45.7883
                                                        Prob > chi2 =    0.0068

```

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = -4.0459 Prob > |z| = 0.0001
H0: no autocorrelation of order 2: z = 0.9113 Prob > |z| = 0.3621

Generalized method of moments estimation

Fitting full model:
Step 1 f(b) = .05852519
Step 2 f(b) = .62924022

Fitting reduced model 2:
Step 1 f(b) = .58041038

```

Group variable: mun_id      Number of obs      =    1125
Time variable: year        Number of groups   =     81

```

```

Moment conditions:      linear =     54      Obs per group:   min =     11
                        nonlinear =    0          avg =   13.88889
                        total =     54          max =     14

```

(Std. err. adjusted for 81 clusters in mun_id)

	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_remu_ev						
l_rpc_remu_ev						
L1.	.6394373	.0873695	7.32	0.000	.4681961	.8106784
elec_t	-.0140632	.0263248	-0.53	0.593	-.0656588	.0375325
l_rpc_total_expenses	.0914631	.1807795	0.51	0.613	-.2628582	.4457845
Age	-.0019962	.0043433	-0.46	0.646	-.010509	.0065166
sex						
Male	.0486731	.0640292	0.76	0.447	-.0768219	.1741681
k_12centers	-.0001921	.0007642	-0.25	0.802	-.0016899	.0013057
gdp	1.49e-08	9.76e-09	1.53	0.126	-4.21e-09	3.41e-08
interest_rate	-.0202884	.0072404	-2.80	0.005	-.0344794	-.0060975
debt	-.0060253	.0025511	-2.36	0.018	-.0110254	-.0010252
deficit	4.40e-08	3.82e-08	1.15	0.250	-3.10e-08	1.19e-07
party_type						
National	.2393602	.3105092	0.77	0.441	-.3692266	.8479471
Provincial	.3835987	2.278248	0.17	0.866	-4.081686	4.848884
win_margin	-.00045	.0033824	-0.13	0.894	-.0070793	.0061794
abstentionism	.001	.0068232	0.15	0.883	-.0123732	.0143731
pop_share014	.0185554	.0115671	1.60	0.109	-.0041156	.0412264
pop_share65plus	.0282571	.0369207	0.77	0.444	-.0441061	.1006203
_cons	.4960145	2.4291	0.20	0.838	-4.264934	5.256963

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L.l_rpc_remu_ev L2.L.l_rpc_remu_ev L3.L.l_rpc_remu_ev L1.Age L2.Age

```



```

L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
L3.k_12centers L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate
L3.interest_rate L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit
L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L1.3.party_type
L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
L1.abstentionism L2.abstentionism L3.abstentionism L1.pop_share014
L2.pop_share014 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus
L3.pop_share65plus L1.l_rpc_total_expenses L2.l_rpc_total_expenses
L3.l_rpc_total_expenses
2, model(level):
  D.L1_rpc_remu_ev D.Age D.2.sex D.k_12centers D.gdp D.interest_rate D.debt
  D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(39) = 50.9685
Prob > chi2 = 0.0950

2-step moment functions, 3-step weighting matrix chi2(39) = 58.2103
Prob > chi2 = 0.0245

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = -4.3036 Prob > |z| = 0.0000
H0: no autocorrelation of order 2: z = 1.3552 Prob > |z| = 0.1753

Generalized method of moments estimation

Fitting full model:
Step 1 f(b) = .06407449
Step 2 f(b) = .69335429

Fitting reduced model 2:
Step 1 f(b) = .65866905

Group variable: **mun_id** Number of obs = 1125
Time variable: **year** Number of groups = 81

Moment conditions: linear = 65 Obs per group: min = 11
 nonlinear = 0 avg = 13.88889
 total = 65 max = 14

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_remu_ev	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_remu_ev						
L1.	.6208399	.0928569	6.69	0.000	.4388438	.8028361
elec_t	-.0078267	.0234315	-0.33	0.738	-.0537517	.0380982
l_rpc_total_expenses	.1135574	.2070396	0.55	0.583	-.2922327	.5193475
Age	-.0004424	.0035145	-0.13	0.900	-.0073307	.0064458
sex						
Male	.0266664	.0621897	0.43	0.668	-.0952232	.148556
k_12centers	-.0002491	.0008352	-0.30	0.765	-.0018861	.0013878
gdp	1.35e-08	1.14e-08	1.19	0.234	-8.75e-09	3.58e-08
interest_rate	-.0185614	.0072086	-2.57	0.010	-.03269	-.0044329
debt	-.0054767	.002735	-2.00	0.045	-.0108373	-.0001161
deficit	5.07e-08	3.36e-08	1.51	0.131	-1.52e-08	1.17e-07
party_type						
National	.1684496	.2947871	0.57	0.568	-.4093225	.7462217
Provincial	.6487241	1.852165	0.35	0.726	-2.981453	4.278901
win_margin	.0002858	.0030962	0.09	0.926	-.0057827	.0063543
abstentionism	.0005767	.006083	0.09	0.924	-.0113457	.0124991
pop_share014	.0145462	.0115422	1.26	0.208	-.0080761	.0371685
pop_share65plus	.0191313	.0336676	0.57	0.570	-.046856	.0851185

_cons	.5020213	2.664277	0.19	0.851	-4.719866	5.723909
-------	----------	----------	------	-------	-----------	----------

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L1_rpc_remu_ev L2.L1_rpc_remu_ev L3.L1_rpc_remu_ev L4.L1_rpc_remu_ev
  L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex L4.2.sex
  L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp L2.gdp
  L3.gdp L4.gdp L4.interest_rate L2.debt L3.debt L4.debt L1.deficit
  L2.deficit L3.deficit L4.deficit L1.2bn.party_type L2.2bn.party_type
  L3.2bn.party_type L4.2bn.party_type L1.3.party_type L2.3.party_type
  L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin L3.win_margin
  L4.win_margin L1.abstentionism L2.abstentionism L3.abstentionism
  L4.abstentionism L1.pop_share014 L2.pop_share014 L3.pop_share014
  L4.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus
  L4.pop_share65plus L1.l_rpc_total_expenses L2.l_rpc_total_expenses
  L3.l_rpc_total_expenses L4.l_rpc_total_expenses
2, model(level):
  D.L1_rpc_remu_ev D.Age D.2.sex D.k_12centers D.gdp D.interest_rate D.debt
  D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

```
2-step moment functions, 2-step weighting matrix      chi2(50)    =    56.1617
                                                         Prob > chi2 =    0.2551

2-step moment functions, 3-step weighting matrix      chi2(50)    =    63.0181
                                                         Prob > chi2 =    0.1023
```

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = -4.3864 Prob > |z| = 0.0000
H0: no autocorrelation of order 2: z = 1.2757 Prob > |z| = 0.2021

Generalized method of moments estimation

```
Fitting full model:
Step 1      f(b) =    .01261615
Step 2      f(b) =    .17689568
```

```
Fitting reduced model 2:
Step 1      f(b) =    1.089e-17
```

```
Group variable: mun_id      Number of obs      =    1042
Time variable: year        Number of groups   =     81
```

```
Moment conditions:      linear =    26      Obs per group:      min =    10
                        nonlinear =    0      avg =    12.8642
                        total =    26      max =    13
```

(Std. err. adjusted for 81 clusters in mun_id)

l_rpc_remu_ev	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_remu_ev						
L1.	.7931082	.0826426	9.60	0.000	.6311317	.9550847
L2.	.0662932	.1140649	0.58	0.561	-.15727	.2898563
elec_t	-.0443044	.028805	-1.54	0.124	-.1007612	.0121525
l_rpc_total_expenses	.1877558	.4168029	0.45	0.652	-.6291628	1.004674
Age	.0023141	.0074619	0.31	0.756	-.012311	.0169393
sex						
Male	-.0688565	.138464	-0.50	0.619	-.340241	.2025281
k_12centers	.0010194	.0010576	0.96	0.335	-.0010535	.0030924
gdp	2.18e-08	1.70e-08	1.28	0.200	-1.15e-08	5.52e-08
interest_rate	-.0203479	.0105985	-1.92	0.055	-.0411206	.0004247
debt	-.0155188	.003507	-4.43	0.000	-.0223925	-.0086451
deficit	9.65e-08	5.56e-08	1.74	0.083	-1.25e-08	2.06e-07

party_type						
National	.2990701	.5070667	0.59	0.555	-.6947623	1.292902
Provincial	-2.364249	3.59853	-0.66	0.511	-9.417238	4.68874
win_margin	-.0032585	.0049327	-0.66	0.509	-.0129265	.0064095
abstentionism	.0064641	.0130521	0.50	0.620	-.0191175	.0320457
pop_share014	.010863	.0175328	0.62	0.536	-.0235006	.0452266
pop_share65plus	.0595993	.0599353	0.99	0.320	-.0578717	.1770702
_cons	-2.767364	6.127411	-0.45	0.652	-14.77687	9.242141

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L2.l_rpc_remu_ev L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
  L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
  L1.abstentionism L1.pop_share014 L1.pop_share65plus L1.l_rpc_total_expenses
2, model(level):
  D.L1.l_rpc_remu_ev D.L2.l_rpc_remu_ev D.elec_t D.Age D.2.sex D.k_12centers
  D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(10) = 14.3286
 Prob > chi2 = 0.1585

2-step moment functions, 3-step weighting matrix chi2(10) = 22.1187
 Prob > chi2 = 0.0145

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -5.3895 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = 0.0662 Prob > |z| = 0.9472

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .02494828

Step 2 f(b) = .32890981

Fitting reduced model 2:

Step 1 f(b) = .14255022

Group variable: **mun_id**

Number of obs = 1042

Time variable: **year**

Number of groups = 81

Moment conditions: linear = 41 Obs per group: min = 10
 nonlinear = 0 avg = 12.8642
 total = 41 max = 13

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_remu_ev	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_remu_ev						
L1.	.7519939	.0951526	7.90	0.000	.5654982	.9384895
L2.	.1345636	.0888843	1.51	0.130	-.0396465	.3087736
elec_t	-.0600073	.0332299	-1.81	0.071	-.1251366	.005122
l_rpc_total_expenses	.7880037	.4246724	1.86	0.064	-.0443388	1.620346
Age	.002291	.0054842	0.42	0.676	-.0084577	.0130398
sex						
Male	.0750653	.1044394	0.72	0.472	-.1296322	.2797628
k_12centers	.002181	.0016365	1.33	0.183	-.0010264	.0053885
gdp	-5.57e-09	1.89e-08	-0.30	0.768	-4.26e-08	3.14e-08
interest_rate	-.0213252	.0065406	-3.26	0.001	-.0341446	-.0085058
debt	-.0125292	.003661	-3.42	0.001	-.0197047	-.0053537
deficit	1.02e-07	5.64e-08	1.81	0.070	-8.52e-09	2.13e-07
party_type						

National	.2292408	.2756547	0.83	0.406	-.3110326	.7695141
Provincial	-3.068009	4.445416	-0.69	0.490	-11.78086	5.644846
win_margin	-.0078709	.0039971	-1.97	0.049	-.0157049	-.0000368
abstentionism	.0114987	.008013	1.44	0.151	-.0042064	.0272038
pop_share014	-.0097029	.0177437	-0.55	0.584	-.0444799	.0250741
pop_share65plus	.0238684	.0502014	0.48	0.634	-.0745244	.1222613
_cons	-11.17547	6.483294	-1.72	0.085	-23.8825	1.531548

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.1_rpc_remu_ev L2.L2.1_rpc_remu_ev L1.Age L2.Age L1.2.sex L2.2.sex
 L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
 L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
 L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
 L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
 L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
 L1.1_rpc_total_expenses L2.1_rpc_total_expenses

2, model(level):

D.L.1_rpc_remu_ev D.L2.1_rpc_remu_ev D.elec_t D.Age D.2.sex D.k_12centers
 D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(25) = 26.6417
 Prob > chi2 = 0.3740

2-step moment functions, 3-step weighting matrix chi2(25) = 39.5980
 Prob > chi2 = 0.0321

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -4.4141 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = -0.8052 Prob > |z| = 0.4207

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .03959557

Step 2 f(b) = .5307018

Fitting reduced model 2:

Step 1 f(b) = .44917888

Group variable: **mun_id**

Number of obs = 1042

Time variable: **year**

Number of groups = 81

Moment conditions: linear = 54 Obs per group: min = 10
 nonlinear = 0 avg = 12.8642
 total = 54 max = 13

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_remu_ev	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_remu_ev						
L1.	.7232369	.0785275	9.21	0.000	.5693259	.8771479
L2.	.0380064	.0834018	0.46	0.649	-.1254581	.201471
elec_t	-.0328041	.0303339	-1.08	0.280	-.0922575	.0266493
l_rpc_total_expenses	.3651086	.1769789	2.06	0.039	.0182363	.711981
Age	-.0018631	.0039769	-0.47	0.639	-.0096576	.0059315
sex						
Male	.091124	.0757109	1.20	0.229	-.0572667	.2395147
k_12centers	.0008086	.001025	0.79	0.430	-.0012003	.0028175
gdp	1.12e-08	9.59e-09	1.16	0.244	-7.63e-09	3.00e-08
interest_rate	-.0220821	.0076256	-2.90	0.004	-.0370281	-.0071361
debt	-.0118655	.003199	-3.71	0.000	-.0181355	-.0055956

deficit	7.18e-08	4.99e-08	1.44	0.150	-2.59e-08	1.70e-07
party_type						
National	.2794391	.3052559	0.92	0.360	-.3188515	.8777297
Provincial	-1.15394	3.574156	-0.32	0.747	-8.159157	5.851276
win_margin	-.0037203	.0035573	-1.05	0.296	-.0106925	.0032519
abstentionism	.0038954	.0070795	0.55	0.582	-.0099802	.0177709
pop_share014	.0044968	.0177603	0.25	0.800	-.0303127	.0393063
pop_share65plus	.0323312	.0480991	0.67	0.501	-.0619412	.1266037
_cons	-4.088378	2.442223	-1.67	0.094	-8.875047	.6982916

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.1_rpc_remu_ev L2.L2.1_rpc_remu_ev L3.L2.1_rpc_remu_ev L1.Age L2.Age
 L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
 L3.k_12centers L1.gdp L2.gdp L3.gdp L3.interest_rate L1.debt L2.debt
 L3.debt L1.deficit L2.deficit L3.deficit L1.2bn.party_type
 L2.2bn.party_type L3.2bn.party_type L1.3.party_type L2.3.party_type
 L3.3.party_type L1.win_margin L2.win_margin L3.win_margin L1.abstentionism
 L2.abstentionism L3.abstentionism L1.pop_share014 L2.pop_share014
 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus
 L1.1_rpc_total_expenses L2.1_rpc_total_expenses L3.1_rpc_total_expenses

2, model(level):

D.L.1_rpc_remu_ev D.L2.1_rpc_remu_ev D.elec_t D.Age D.2.sex D.k_12centers
 D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(38) = **42.9868**
 Prob > chi2 = **0.2661**

2-step moment functions, 3-step weighting matrix chi2(38) = **53.6905**
 Prob > chi2 = **0.0472**

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-5.1300** Prob > |z| = **0.0000**

H0: no autocorrelation of order 2: z = **0.2435** Prob > |z| = **0.8076**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.0465799**

Step 2 f(b) = **.69802635**

Fitting reduced model 2:

Step 1 f(b) = **.58542428**

Group variable: **mun_id**

Number of obs = **1042**

Time variable: **year**

Number of groups = **81**

Moment conditions: linear = **65** Obs per group: min = **10**
 nonlinear = **0** avg = **12.8642**
 total = **65** max = **13**

(Std. err. adjusted for **81** clusters in **mun_id**)

	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_remu_ev						
l_rpc_remu_ev						
L1.	.6644672	.0762518	8.71	0.000	.5150163	.813918
L2.	.0277987	.0680417	0.41	0.683	-.1055606	.161158
elec_t	-.041481	.0279392	-1.48	0.138	-.0962409	.0132789
l_rpc_total_expenses	.2468368	.1558827	1.58	0.113	-.0586876	.5523613
Age	-.0018065	.0031369	-0.58	0.565	-.0079547	.0043418
sex						

Male	.0598044	.0766648	0.78	0.435	-.0904559	.2100647
k_12centers	.0002244	.0009035	0.25	0.804	-.0015465	.0019953
gdp	1.81e-08	8.49e-09	2.14	0.033	1.50e-09	3.48e-08
interest_rate	-.0146266	.0063706	-2.30	0.022	-.0271128	-.0021405
debt	-.0125601	.002758	-4.55	0.000	-.0179658	-.0071544
deficit	8.81e-08	4.34e-08	2.03	0.042	3.03e-09	1.73e-07
party_type						
National	.2182699	.2456609	0.89	0.374	-.2632166	.6997565
Provincial	.1663166	2.063025	0.08	0.936	-3.877138	4.209771
win_margin	-.0021853	.0030841	-0.71	0.479	-.00823	.0038594
abstentionism	.0032546	.0064409	0.51	0.613	-.0093694	.0158786
pop_share014	.0067613	.0124665	0.54	0.588	-.0176726	.0311952
pop_share65plus	.0478741	.035103	1.36	0.173	-.0209266	.1166748
_cons	-1.971785	2.001483	-0.99	0.325	-5.894619	1.951049

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.1_rpc_remu_ev L2.L2.1_rpc_remu_ev L3.L2.1_rpc_remu_ev
 L4.L2.1_rpc_remu_ev L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex
 L4.2.sex L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp
 L2.gdp L3.gdp L4.gdp L1.debt L3.debt L4.debt L1.deficit L2.deficit
 L3.deficit L4.deficit L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type
 L4.2bn.party_type L1.3.party_type L2.3.party_type L3.3.party_type
 L4.3.party_type L1.win_margin L2.win_margin L3.win_margin L4.win_margin
 L1.abstentionism L2.abstentionism L3.abstentionism L4.abstentionism
 L1.pop_share014 L2.pop_share014 L3.pop_share014 L4.pop_share014
 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus L4.pop_share65plus
 L1.1_rpc_total_expenses L2.1_rpc_total_expenses L3.1_rpc_total_expenses
 L4.1_rpc_total_expenses

2, model(level):

D.L.1_rpc_remu_ev D.L2.1_rpc_remu_ev D.Age D.2.sex D.k_12centers D.gdp
 D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(49) = 56.5401
 Prob > chi2 = 0.2141

2-step moment functions, 3-step weighting matrix chi2(49) = 69.7038
 Prob > chi2 = 0.0275

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -5.2921 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = 0.2255 Prob > |z| = 0.8216

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .22794209

Step 2 f(b) = .13903288

Fitting reduced model 2:

Step 1 f(b) = 7.793e-22

Group variable: mun_id

Number of obs = 1080

Time variable: year

Number of groups = 80

Moment conditions: linear = 25 Obs per group: min = 7
 nonlinear = 0 avg = 13.5
 total = 25 max = 14

(Std. err. adjusted for 80 clusters in `mun_id`)

<code>l_rpc_rentals</code>	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
<code>l_rpc_rentals</code>						
<code>L1.</code>	.5061485	.0811521	6.24	0.000	.3470933	.6652037
<code>elec_t</code>	.0856899	.129881	0.66	0.509	-.1688721	.3402519
<code>l_rpc_total_expenses</code>	.5229168	.5476466	0.95	0.340	-.5504509	1.596284
<code>Age</code>	.0069143	.0140026	0.49	0.621	-.0205302	.0343589
<code>sex</code>						
<code>Male</code>	.1667116	.3295517	0.51	0.613	-.4791979	.8126212
<code>k_12centers</code>	.0002863	.0037899	0.08	0.940	-.0071419	.0077144
<code>gdp</code>	-2.13e-08	3.49e-08	-0.61	0.542	-8.97e-08	4.71e-08
<code>interest_rate</code>	.0236702	.0318391	0.74	0.457	-.0387333	.0860738
<code>debt</code>	.0072344	.0165795	0.44	0.663	-.0252608	.0397297
<code>deficit</code>	-3.13e-07	1.90e-07	-1.65	0.099	-6.86e-07	5.94e-08
<code>party_type</code>						
<code>National</code>	-.4268139	2.096401	-0.20	0.839	-4.535684	3.682056
<code>Provincial</code>	-1.608479	12.85195	-0.13	0.900	-26.79783	23.58087
<code>win_margin</code>	.0026002	.0154216	0.17	0.866	-.0276255	.0328259
<code>abstentionism</code>	-.0214116	.0350429	-0.61	0.541	-.0900945	.0472713
<code>pop_share014</code>	.1311703	.054375	2.41	0.016	.0245973	.2377433
<code>pop_share65plus</code>	.1340827	.2521862	0.53	0.595	-.3601932	.6283586
<code>_cons</code>	-7.654371	8.729423	-0.88	0.381	-24.76373	9.454983

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
    L1.L1_rpc_rentals L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
    L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
    L1.abstentionism L1.pop_share014 L1.pop_share65plus L1.l_rpc_total_expenses
2, model(level):
    D.L1_rpc_rentals D.elec_t D.Age D.2.sex D.k_12centers D.gdp
    D.interest_rate D.debt D.deficit
3, model(level):
    _cons

```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(10)    =    11.1226
                                                        Prob > chi2 =    0.3480

```

```

2-step moment functions, 3-step weighting matrix      chi2(10)    =    11.4343
                                                        Prob > chi2 =    0.3247

```

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-6.1585** Prob > |z| = **0.0000**H0: no autocorrelation of order 2: z = **2.0308** Prob > |z| = **0.0423**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.41115541**Step 2 f(b) = **.24943793**

Fitting reduced model 2:

Step 1 f(b) = **.17379664**Group variable: `mun_id`Number of obs = **1080**Time variable: `year`Number of groups = **80**

```

Moment conditions:      linear =    40    Obs per group:    min =    7
                       nonlinear =    0                    avg =    13.5
                       total =    40                    max =    14

```

(Std. err. adjusted for 80 clusters in `mun_id`)

<code>l_rpc_rentals</code>	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
<code>l_rpc_rentals</code>						
L1.	.4947138	.0674269	7.34	0.000	.3625595	.626868
elec_t	.0987732	.0892265	1.11	0.268	-.0761076	.273654
<code>l_rpc_total_expenses</code>	.4045701	.4320815	0.94	0.349	-.4422942	1.251434
Age	-.009068	.0120708	-0.75	0.453	-.0327264	.0145903
sex						
Male	.4201219	.2460781	1.71	0.088	-.0621823	.9024261
k_12centers	-.0029572	.0024799	-1.19	0.233	-.0078176	.0019033
gdp	1.03e-08	2.52e-08	0.41	0.681	-3.90e-08	5.97e-08
interest_rate	-.025728	.0269584	-0.95	0.340	-.0785656	.0271096
debt	.0048297	.0093318	0.52	0.605	-.0134603	.0231197
deficit	-3.35e-07	1.16e-07	-2.89	0.004	-5.63e-07	-1.08e-07
party_type						
National	-.0483876	1.59218	-0.03	0.976	-3.169003	3.072228
Provincial	.0763641	7.891245	0.01	0.992	-15.39019	15.54292
win_margin	.0183007	.0129026	1.42	0.156	-.006988	.0435893
abstentionism	-.0583066	.0228191	-2.56	0.011	-.1030313	-.0135819
pop_share014	.1637089	.0528869	3.10	0.002	.0600525	.2673653
pop_share65plus	-.0683672	.1471131	-0.46	0.642	-.3567036	.2199691
_cons	-2.721995	6.328601	-0.43	0.667	-15.12583	9.681835

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L1.l_rpc_rentals L2.L1.l_rpc_rentals L1.Age L2.Age L1.2.sex L2.2.sex
  L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
  L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
  L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
  L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
  L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
  L1.l_rpc_total_expenses L2.l_rpc_total_expenses
2, model(level):
  D.L1.l_rpc_rentals D.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(25)      =    19.9550
                                                         Prob > chi2    =    0.7492

```

```

2-step moment functions, 3-step weighting matrix      chi2(25)      =    21.5623
                                                         Prob > chi2    =    0.6609

```

Arellano-Bond test for autocorrelation of the first-differenced residuals

```

H0: no autocorrelation of order 1:      z =    -5.9820    Prob > |z|    =    0.0000
H0: no autocorrelation of order 2:      z =     1.4978    Prob > |z|    =    0.1342

```

Generalized method of moments estimation

Fitting full model:

```

Step 1      f(b) =    .52921023
Step 2      f(b) =    .41337737

```

Fitting reduced model 2:

```

Step 1      f(b) =    .33647206

```

Group variable: `mun_id`

Number of obs = 1080

Time variable: `year`

Number of groups = 80

Fitting reduced model 2:

Step 1 f(b) = .39815616

Group variable: **mun_id**

Number of obs = 1080

Time variable: **year**

Number of groups = 80

Moment conditions:

linear =	67
nonlinear =	0
total =	67

Obs per group:

min =	7
avg =	13.5
max =	14

(Std. err. adjusted for 80 clusters in **mun_id**)

l_rpc_rentals	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_rentals						
L1.	.4784313	.0680994	7.03	0.000	.3449589	.6119037
elec_t	.0656942	.0701729	0.94	0.349	-.0718421	.2032306
l_rpc_total_expenses	.7339263	.3625962	2.02	0.043	.0232509	1.444602
Age	-.002942	.0094333	-0.31	0.755	-.0214309	.0155469
sex						
Male	.3565814	.2193641	1.63	0.104	-.0733643	.7865272
k_12centers	-.0015727	.0023099	-0.68	0.496	-.0061001	.0029546
gdp	-6.31e-09	1.95e-08	-0.32	0.746	-4.45e-08	3.19e-08
interest_rate	-.0409206	.0274822	-1.49	0.136	-.0947846	.0129435
debt	.0019929	.008736	0.23	0.820	-.0151293	.0191152
deficit	-2.49e-07	8.55e-08	-2.92	0.004	-4.17e-07	-8.17e-08
party_type						
National	-.6242742	1.414941	-0.44	0.659	-3.397508	2.14896
Provincial	5.643395	8.301266	0.68	0.497	-10.62679	21.91358
win_margin	.0030437	.0100604	0.30	0.762	-.0166744	.0227618
abstentionism	-.0132883	.0205885	-0.65	0.519	-.0536411	.0270645
pop_share014	.1165812	.0429326	2.72	0.007	.0324348	.2007275
pop_share65plus	.0330709	.1185899	0.28	0.780	-.1993611	.2655028
_cons	-9.04607	5.515482	-1.64	0.101	-19.85622	1.764076

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L.1_rpc_rentals L2.L.1_rpc_rentals L3.L.1_rpc_rentals L4.L.1_rpc_rentals
 L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex L4.2.sex
 L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp L2.gdp
 L3.gdp L4.gdp L2.interest_rate L1.debt L2.debt L3.debt L4.debt L1.deficit
 L2.deficit L3.deficit L4.deficit L1.2bn.party_type L2.2bn.party_type
 L3.2bn.party_type L4.2bn.party_type L1.3.party_type L2.3.party_type
 L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin L3.win_margin
 L4.win_margin L1.abstentionism L2.abstentionism L3.abstentionism
 L4.abstentionism L1.pop_share014 L2.pop_share014 L3.pop_share014
 L4.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus
 L4.pop_share65plus L1.l_rpc_total_expenses L2.l_rpc_total_expenses
 L3.l_rpc_total_expenses L4.l_rpc_total_expenses

2, model(level):

D.L.1_rpc_rentals D.elec_t D.Age D.2.sex D.k_12centers D.gdp
 D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix	chi2(52)	=	38.6314
	Prob > chi2	=	0.9157

2-step moment functions, 3-step weighting matrix	chi2(52)	=	50.1910
	Prob > chi2	=	0.5453

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-6.2843** Prob > |z| = **0.0000**
H0: no autocorrelation of order 2: z = **1.7698** Prob > |z| = **0.0768**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.1526717**
Step 2 f(b) = **.12031216**

Fitting reduced model 2:

Step 1 f(b) = **7.749e-24**

Group variable: **mun_id** Number of obs = **994**
Time variable: **year** Number of groups = **80**

Moment conditions: linear = **26** Obs per group: min = **6**
nonlinear = **0** avg = **12.425**
total = **26** max = **13**

(Std. err. adjusted for **80** clusters in **mun_id**)

l_rpc_rentals	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_rentals						
L1.	.5934513	.0792002	7.49	0.000	.4382218	.7486807
L2.	.0670145	.069712	0.96	0.336	-.0696185	.2036476
elec_t	.1009155	.094889	1.06	0.288	-.0850635	.2868945
l_rpc_total_expenses	.4121265	.4030963	1.02	0.307	-.3779278	1.202181
Age	.0053352	.0162062	0.33	0.742	-.0264284	.0370987
sex						
Male	.2737913	.2520597	1.09	0.277	-.2202366	.7678191
k_12centers	.0000786	.00211	0.04	0.970	-.004057	.0042142
gdp	-3.75e-08	3.28e-08	-1.14	0.253	-1.02e-07	2.67e-08
interest_rate	.0088812	.0420178	0.21	0.833	-.0734722	.0912346
debt	.0137641	.0139821	0.98	0.325	-.0136403	.0411685
deficit	-3.18e-07	1.26e-07	-2.52	0.012	-5.65e-07	-7.04e-08
party_type						
National	-1.287586	1.298721	-0.99	0.321	-3.833032	1.257859
Provincial	1.108967	11.83374	0.09	0.925	-22.08474	24.30267
win margin	-.0019651	.0154223	-0.13	0.899	-.0321923	.0282621
abstentionism	-.0011042	.0339849	-0.03	0.974	-.0677134	.0655049
pop_share014	.084629	.0259092	3.27	0.001	.033848	.1354101
pop_share65plus	.0526283	.1417548	0.37	0.710	-.225206	.3304627
_cons	-5.611799	6.769702	-0.83	0.407	-18.88017	7.656573

Instruments corresponding to the linear moment conditions:

1, model(diff):
L1.L2.l_rpc_rentals L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
L1.abstentionism L1.pop_share014 L1.pop_share65plus L1.l_rpc_total_expenses
2, model(level):
D.L.l_rpc_rentals D.L2.l_rpc_rentals D.elec_t D.Age D.2.sex D.k_12centers
D.gdp D.interest_rate D.debt D.deficit
3, model(level):
_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(10) = **9.6250**
Prob > chi2 = **0.4740**

2-step moment functions, 3-step weighting matrix chi2(10) = **10.3831**
Prob > chi2 = **0.4076**

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-5.4849** Prob > |z| = **0.0000**
H0: no autocorrelation of order 2: z = **1.5220** Prob > |z| = **0.1280**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.2897672**
Step 2 f(b) = **.30598255**

Fitting reduced model 2:

Step 1 f(b) = **.22808319**

Group variable: **mun_id** Number of obs = **994**
Time variable: **year** Number of groups = **80**

Moment conditions: linear = **41** Obs per group: min = **6**
nonlinear = **0** avg = **12.425**
total = **41** max = **13**

(Std. err. adjusted for **80** clusters in **mun_id**)

l_rpc_rentals	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_rentals						
L1.	.528238	.0798313	6.62	0.000	.3717715	.6847046
L2.	.0907029	.0707722	1.28	0.200	-.0480081	.2294139
elec_t	.0669221	.0909047	0.74	0.462	-.1112478	.2450921
l_rpc_total_expenses	.5116578	.3651566	1.40	0.161	-.204036	1.227352
Age	-.0062115	.0143928	-0.43	0.666	-.0344208	.0219979
sex						
Male	.3611294	.1761174	2.05	0.040	.0159455	.7063132
k_12centers	-.0019214	.0023052	-0.83	0.405	-.0064395	.0025967
gdp	2.58e-08	2.27e-08	1.13	0.256	-1.88e-08	7.03e-08
interest_rate	-.0633628	.0306358	-2.07	0.039	-.1234079	-.0033177
debt	-.0049852	.0113573	-0.44	0.661	-.0272451	.0172748
deficit	-2.40e-07	1.15e-07	-2.09	0.037	-4.65e-07	-1.45e-08
party_type						
National	-1.201416	.9665435	-1.24	0.214	-3.095807	.6929743
Provincial	.8435739	8.820561	0.10	0.924	-16.44441	18.13156
win_margin	.0075558	.012205	0.62	0.536	-.0163655	.0314771
abstentionism	-.029204	.022207	-1.32	0.188	-.072729	.014321
pop_share014	.1209915	.0287261	4.21	0.000	.0646894	.1772935
pop_share65plus	-.1586308	.1486586	-1.07	0.286	-.4499963	.1327347
_cons	-3.859945	6.216776	-0.62	0.535	-16.0446	8.324712

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.1_rpc rentals L2.L2.1_rpc rentals L1.Age L2.Age L1.2.sex L2.2.sex
L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
L1.1_rpc_total_expenses L2.1_rpc_total_expenses

2, model(level):

D.L.1_rpc rentals D.L2.1_rpc rentals D.elec_t D.Age D.2.sex D.k_12centers
D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(25) = **24.4786**
Prob > chi2 = **0.4919**

2-step moment functions, 3-step weighting matrix $\chi^2(25) = 28.4561$
 Prob > $\chi^2 = 0.2873$

Arellano-Bond test for autocorrelation of the first-differenced residuals
 H0: no autocorrelation of order 1: $z = -5.4165$ Prob > $|z| = 0.0000$
 H0: no autocorrelation of order 2: $z = 0.6062$ Prob > $|z| = 0.5444$

Generalized method of moments estimation

Fitting full model:

Step 1 $f(b) = .42148589$
 Step 2 $f(b) = .42931476$

Fitting reduced model 2:

Step 1 $f(b) = .30613151$

Group variable: **mun_id** Number of obs = 994
 Time variable: **year** Number of groups = 80

Moment conditions: linear = 56 Obs per group: min = 6
 nonlinear = 0 avg = 12.425
 total = 56 max = 13

(Std. err. adjusted for 80 clusters in **mun_id**)

l_rpc_rentals	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_rentals						
L1.	.5314514	.0693967	7.66	0.000	.3954363	.6674664
L2.	.0817688	.0678897	1.20	0.228	-.0512926	.2148302
elec_t	.0077517	.0834182	0.09	0.926	-.155745	.1712483
l_rpc_total_expenses	.7582843	.3293953	2.30	0.021	.1126815	1.403887
Age	-.0088674	.0111414	-0.80	0.426	-.0307042	.0129694
sex						
Male	.3552394	.2060402	1.72	0.085	-.048592	.7590707
k_12centers	-.0007781	.002509	-0.31	0.756	-.0056956	.0041394
gdp	2.36e-08	2.43e-08	0.97	0.330	-2.39e-08	7.12e-08
interest_rate	-.0738155	.032295	-2.29	0.022	-.1371125	-.0105185
debt	-.013615	.0106394	-1.28	0.201	-.0344678	.0072377
deficit	-1.33e-07	9.66e-08	-1.37	0.170	-3.22e-07	5.67e-08
party_type						
National	-1.540636	1.264298	-1.22	0.223	-4.018614	.9373429
Provincial	1.084817	8.109093	0.13	0.894	-14.80871	16.97835
win_margin	.0005454	.0131285	0.04	0.967	-.0251861	.0262768
abstentionism	-.0006678	.0209384	-0.03	0.975	-.0417062	.0403706
pop_share014	.0930789	.0328738	2.83	0.005	.0286475	.1575104
pop_share65plus	-.0601398	.1267784	-0.47	0.635	-.3086209	.1883412
_cons	-8.311402	5.349634	-1.55	0.120	-18.79649	2.173687

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.l_rpc_rentals L2.L2.l_rpc_rentals L3.L2.l_rpc_rentals L1.Age L2.Age
 L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
 L3.k_12centers L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate
 L3.interest_rate L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit
 L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L1.3.party_type
 L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
 L1.abstentionism L2.abstentionism L3.abstentionism L1.pop_share014
 L2.pop_share014 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus
 L3.pop_share65plus L1.l_rpc_total_expenses L2.l_rpc_total_expenses
 L3.l_rpc_total_expenses

2, model(level):

D.L.l_rpc_rentals D.L2.l_rpc_rentals D.elec_t D.Age D.2.sex D.k_12centers
 D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(40) = 34.3452
Prob > chi2 = 0.7221

2-step moment functions, 3-step weighting matrix chi2(40) = 41.6078
Prob > chi2 = 0.4006

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -5.5785 Prob > |z| = 0.0000
H0: no autocorrelation of order 2: z = 0.8694 Prob > |z| = 0.3846

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .48639085
Step 2 f(b) = .54534358

Fitting reduced model 2:

Step 1 f(b) = .41472532

Group variable: **mun_id** Number of obs = 994
Time variable: **year** Number of groups = 80

Moment conditions: linear = 67 Obs per group: min = 6
 nonlinear = 0 avg = 12.425
 total = 67 max = 13

(Std. err. adjusted for 80 clusters in **mun_id**)

l_rpc_rentals	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_rentals						
L1.	.5166315	.0747663	6.91	0.000	.3700922	.6631708
L2.	.1051967	.0637136	1.65	0.099	-.0196796	.2300731
elec_t	.0499526	.0751284	0.66	0.506	-.0972964	.1972016
l_rpc_total_expenses	.7201453	.3563911	2.02	0.043	.0216317	1.418659
Age	-.0109463	.0102389	-1.07	0.285	-.0310141	.0091216
sex						
Male	.3087327	.2061996	1.50	0.134	-.0954111	.7128765
k_12centers	-.0017147	.0022646	-0.76	0.449	-.0061532	.0027239
gdp	2.72e-08	2.27e-08	1.19	0.232	-1.74e-08	7.17e-08
interest_rate	-.076223	.0330171	-2.31	0.021	-.1409354	-.0115107
debt	-.0126768	.0099294	-1.28	0.202	-.032138	.0067845
deficit	-1.48e-07	9.75e-08	-1.52	0.129	-3.39e-07	4.32e-08
party_type						
National	-1.390878	1.038326	-1.34	0.180	-3.425959	.6442038
Provincial	.5937063	6.40726	0.09	0.926	-11.96429	13.15171
win_margin	-.0059089	.0098992	-0.60	0.551	-.025311	.0134931
abstentionism	.0034164	.0181885	0.19	0.851	-.0322324	.0390651
pop_share014	.1059306	.0312799	3.39	0.001	.0446231	.1672381
pop_share65plus	-.0475767	.1113282	-0.43	0.669	-.265776	.1706226
_cons	-8.478631	5.553328	-1.53	0.127	-19.36295	2.405692

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.1_rpc_rentals L2.L2.1_rpc_rentals L3.L2.1_rpc_rentals
L4.L2.1_rpc_rentals L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex
L4.2.sex L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp
L2.gdp L3.gdp L4.gdp L2.interest_rate L2.debt L3.debt L4.debt L1.deficit
L2.deficit L3.deficit L4.deficit L1.2bn.party_type L2.2bn.party_type
L3.2bn.party_type L4.2bn.party_type L1.3.party_type L2.3.party_type
L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin L3.win_margin
L4.win_margin L1.abstentionism L2.abstentionism L3.abstentionism
L4.abstentionism L1.pop_share014 L2.pop_share014 L3.pop_share014
L4.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus

```

L4.pop_share65plus L1.l_rpc_total_expenses L2.l_rpc_total_expenses
L3.l_rpc_total_expenses L4.l_rpc_total_expenses
2, model(level):
  D.L.l_rpc_rentals D.L2.l_rpc_rentals D.elec_t D.Age D.2.sex D.k_12centers
  D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(51) = **43.6275**
Prob > chi2 = **0.7585**

2-step moment functions, 3-step weighting matrix chi2(51) = **59.8429**
Prob > chi2 = **0.1855**

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = **-5.5464** Prob > |z| = **0.0000**
H0: no autocorrelation of order 2: z = **0.3673** Prob > |z| = **0.7134**

Generalized method of moments estimation

Fitting full model:
Step 1 f(b) = **.05928612**
Step 2 f(b) = **.14745799**

Fitting reduced model 2:
Step 1 f(b) = **2.532e-22**

Group variable: **mun_id** Number of obs = **1122**
Time variable: **year** Number of groups = **81**

Moment conditions: linear = **25** Obs per group: min = **11**
 nonlinear = **0** avg = **13.85185**
 total = **25** max = **14**

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_serv_cf	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_serv_cf						
L1.	.4700642	.0994164	4.73	0.000	.2752116	.6649167
elec_t	.1116357	.0770128	1.45	0.147	-.0393066	.2625781
l_rpc_total_expenses	.3674747	.6456896	0.57	0.569	-.8980537	1.633003
Age	.0035052	.0087878	0.40	0.690	-.0137186	.0207291
sex						
Male	-.0528861	.2036488	-0.26	0.795	-.4520304	.3462582
k_12centers	-.0011933	.0015605	-0.76	0.444	-.0042519	.0018653
gdp	2.20e-08	2.91e-08	0.76	0.450	-3.51e-08	7.91e-08
interest_rate	-.0059991	.0173451	-0.35	0.729	-.0399949	.0279966
debt	-.0020396	.0104857	-0.19	0.846	-.0225911	.018512
deficit	-9.17e-08	1.49e-07	-0.61	0.540	-3.85e-07	2.01e-07
party_type						
National	.0445127	.5586094	0.08	0.936	-1.050342	1.139367
Provincial	9.75635	9.496115	1.03	0.304	-8.855692	28.36839
win_margin	-.0111372	.0067714	-1.64	0.100	-.024409	.0021345
abstentionism	.0155302	.0122322	1.27	0.204	-.0084443	.0395048
pop_share014	.0313383	.02696	1.16	0.245	-.0215023	.0841788
pop_share65plus	.0278631	.1333733	0.21	0.835	-.2335437	.2892699
_cons	-4.675296	9.271741	-0.50	0.614	-22.84757	13.49698

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L.l_rpc_serv_cf L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
  L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
  L1.abstentionism L1.pop_share014 L1.pop_share65plus L1.l_rpc_total_expenses

```

```

2, model(level):
  D.L1_rpc_serv_cf D.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(10)    =    11.9441
                                                         Prob > chi2 =    0.2888

```

```

2-step moment functions, 3-step weighting matrix      chi2(10)    =    19.6191
                                                         Prob > chi2 =    0.0331

```

Arellano-Bond test for autocorrelation of the first-differenced residuals

```

H0: no autocorrelation of order 1:      z =    -4.2997    Prob > |z| =    0.0000
H0: no autocorrelation of order 2:      z =     1.7219    Prob > |z| =    0.0851

```

Generalized method of moments estimation

Fitting full model:

```

Step 1      f(b) =    .16925772
Step 2      f(b) =    .31416491

```

Fitting reduced model 2:

```

Step 1      f(b) =    .23598453

```

```

Group variable: mun_id      Number of obs      =    1122
Time variable:  year       Number of groups   =     81

```

```

Moment conditions:      linear =    40      Obs per group:  min =    11
                       nonlinear =    0      avg =   13.85185
                       total =    40      max =    14

```

(Std. err. adjusted for 81 clusters in mun_id)

l_rpc_serv_cf	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_serv_cf						
L1.	.4255706	.0853122	4.99	0.000	.2583617	.5927795
elec_t	.0622119	.0524334	1.19	0.235	-.0405556	.1649795
l_rpc_total_expenses	.2170757	.6663474	0.33	0.745	-1.088941	1.523093
Age	.002018	.0062165	0.32	0.745	-.0101661	.0142021
sex						
Male	.0051305	.1973679	0.03	0.979	-.3817035	.3919644
k_12centers	-.0010414	.00156	-0.67	0.504	-.004099	.0020163
gdp	3.10e-08	2.83e-08	1.10	0.273	-2.44e-08	8.65e-08
interest_rate	-.0099716	.0154426	-0.65	0.518	-.0402384	.0202952
debt	-.0078038	.006217	-1.26	0.209	-.0199889	.0043813
deficit	9.63e-09	7.50e-08	0.13	0.898	-1.37e-07	1.57e-07
party_type						
National	-.1522503	.520769	-0.29	0.770	-1.172939	.8684381
Provincial	4.949589	6.081773	0.81	0.416	-6.970467	16.86965
win_margin	-.0091038	.0070438	-1.29	0.196	-.0229094	.0047017
abstentionism	.0117584	.0119956	0.98	0.327	-.0117526	.0352695
pop_share014	.0205892	.0211508	0.97	0.330	-.0208656	.0620439
pop_share65plus	.0631201	.0637999	0.99	0.322	-.0619254	.1881656
_cons	-1.432361	9.289365	-0.15	0.877	-19.63918	16.77446

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L1_rpc_serv_cf L2.L1_rpc_serv_cf L1.Age L2.Age L1.2.sex L2.2.sex
  L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
  L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
  L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
  L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014

```



```

L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
L1.l_rpc_total_expenses L2.l_rpc_total_expenses
2, model(level):
  D.L1.l_rpc_serv_cf D.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(25) = **25.4474**
Prob > chi2 = **0.4375**

2-step moment functions, 3-step weighting matrix chi2(25) = **35.4402**
Prob > chi2 = **0.0805**

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = **-4.3198** Prob > |z| = **0.0000**
H0: no autocorrelation of order 2: z = **1.6205** Prob > |z| = **0.1051**

Generalized method of moments estimation

Fitting full model:
Step 1 f(b) = **.23167787**
Step 2 f(b) = **.4705024**

Fitting reduced model 2:
Step 1 f(b) = **.40567338**

Group variable: **mun_id** Number of obs = **1122**
Time variable: **year** Number of groups = **81**

Moment conditions: linear = **55** Obs per group: min = **11**
 nonlinear = **0** avg = **13.85185**
 total = **55** max = **14**

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_serv_cf	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_serv_cf						
L1.	.5226904	.0656911	7.96	0.000	.3939382	.6514426
elec_t	.077592	.0498357	1.56	0.119	-.0200841	.1752682
l_rpc_total_expenses	.4215505	.2838739	1.48	0.138	-.1348321	.977933
Age	.0004111	.0064649	0.06	0.949	-.0122599	.0130821
sex						
Male	.138495	.1639814	0.84	0.398	-.1829026	.4598926
k_12centers	-.0011992	.0013389	-0.90	0.370	-.0038233	.001425
gdp	1.63e-08	1.20e-08	1.36	0.174	-7.19e-09	3.98e-08
interest_rate	-.0181124	.0136647	-1.33	0.185	-.0448947	.0086699
debt	-.0057756	.003874	-1.49	0.136	-.0133684	.0018173
deficit	-7.67e-08	6.01e-08	-1.28	0.202	-1.94e-07	4.10e-08
party_type						
National	-.1633702	.4254999	-0.38	0.701	-.9973348	.6705943
Provincial	.0722652	4.379153	0.02	0.987	-8.510718	8.655248
win margin	-.00313	.0058144	-0.54	0.590	-.014526	.0082659
abstentionism	.0045049	.0100819	0.45	0.655	-.0152552	.0242651
pop_share014	.0325752	.0180518	1.80	0.071	-.0028057	.067956
pop_share65plus	.0511191	.0543906	0.94	0.347	-.0554844	.1577226
_cons	-4.654619	4.260896	-1.09	0.275	-13.00582	3.696585

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L1.l_rpc_serv_cf L2.L1.l_rpc_serv_cf L3.L1.l_rpc_serv_cf L1.Age L2.Age
  L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
  L3.k_12centers L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate

```

```

L3.interest_rate L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit
L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L1.3.party_type
L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
L1.abstentionism L2.abstentionism L3.abstentionism L1.pop_share014
L2.pop_share014 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus
L3.pop_share65plus L1.l_rpc_total_expenses L2.l_rpc_total_expenses
L3.l_rpc_total_expenses
2, model(level):
  D.L.l_rpc_serv_cf D.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(40)      =    38.1107
                                                         Prob > chi2 =    0.5556

2-step moment functions, 3-step weighting matrix      chi2(40)      =    48.3748
                                                         Prob > chi2 =    0.1707

```

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = -4.3140 Prob > |z| = 0.0000
H0: no autocorrelation of order 2: z = 1.5365 Prob > |z| = 0.1244

Generalized method of moments estimation

```

Fitting full model:
Step 1          f(b) =    .24508203
Step 2          f(b) =    .63402972

Fitting reduced model 2:
Step 1          f(b) =    .57274289

```

```

Group variable: mun_id          Number of obs      =    1122
Time variable: year            Number of groups   =     81

Moment conditions:      linear =    66      Obs per group:   min =    11
                      nonlinear =    0      avg =   13.85185
                      total =    66      max =    14

```

(Std. err. adjusted for 81 clusters in mun_id)

l_rpc_serv_cf	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_serv_cf						
L1.	.5198857	.0646112	8.05	0.000	.3932501	.6465213
elec_t	.0597567	.0504972	1.18	0.237	-.0392161	.1587295
l_rpc_total_expenses	.2411134	.2657733	0.91	0.364	-.2797927	.7620194
Age	.0018643	.0068074	0.27	0.784	-.011478	.0152066
sex						
Male	.1317135	.1494377	0.88	0.378	-.161179	.424606
k_12centers	-.0015288	.001288	-1.19	0.235	-.0040532	.0009956
gdp	2.23e-08	1.39e-08	1.61	0.108	-4.87e-09	4.95e-08
interest_rate	-.0155042	.014218	-1.09	0.276	-.0433711	.0123626
debt	-.0085227	.0042503	-2.01	0.045	-.0168532	-.0001923
deficit	-3.88e-08	6.73e-08	-0.58	0.564	-1.71e-07	9.32e-08
party_type						
National	-.4207778	.4890468	-0.86	0.390	-1.379292	.5377362
Provincial	1.411191	3.975125	0.36	0.723	-6.379912	9.202294
win_margin	.0002557	.0053036	0.05	0.962	-.0101392	.0106506
abstentionism	.0032204	.0089515	0.36	0.719	-.0143242	.0207649
pop_share014	.0336447	.0185669	1.81	0.070	-.0027457	.0700351
pop_share65plus	.0839285	.054738	1.53	0.125	-.023356	.1912129
_cons	-1.864321	3.854049	-0.48	0.629	-9.418117	5.689475

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L1_rpc_serv_cf L2.L1_rpc_serv_cf L3.L1_rpc_serv_cf L4.L1_rpc_serv_cf
  L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex L4.2.sex
  L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp L2.gdp
  L3.gdp L4.gdp L2.interest_rate L4.interest_rate L2.debt L3.debt L4.debt
  L1.deficit L2.deficit L3.deficit L4.deficit L1.2bn.party_type
  L2.2bn.party_type L3.2bn.party_type L4.2bn.party_type L1.3.party_type
  L2.3.party_type L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin
  L3.win_margin L4.win_margin L1.abstentionism L2.abstentionism
  L3.abstentionism L4.abstentionism L1.pop_share014 L2.pop_share014
  L3.pop_share014 L4.pop_share014 L1.pop_share65plus L2.pop_share65plus
  L3.pop_share65plus L4.pop_share65plus L1.l_rpc_total_expenses
  L2.l_rpc_total_expenses L3.l_rpc_total_expenses L4.l_rpc_total_expenses
2, model(level):
  D.L1_rpc_serv_cf D.Age D.2.sex D.k_12centers D.gdp D.interest_rate D.debt
  D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

```
2-step moment functions, 2-step weighting matrix      chi2(51)    =    51.3564
                                                         Prob > chi2 =    0.4597
```

```
2-step moment functions, 3-step weighting matrix      chi2(51)    =    64.5594
                                                         Prob > chi2 =    0.0961
```

Arellano-Bond test for autocorrelation of the first-differenced residuals

```
H0: no autocorrelation of order 1:      z =    -4.5394    Prob > |z| =    0.0000
```

```
H0: no autocorrelation of order 2:      z =     1.6727    Prob > |z| =    0.0944
```

Generalized method of moments estimation

Fitting full model:

```
Step 1          f(b) = .05151822
```

```
Step 2          f(b) = .12642972
```

Fitting reduced model 2:

```
Step 1          f(b) = 7.400e-17
```

Group variable: **mun_id**

```
Number of obs      =    1040
```

Time variable: **year**

```
Number of groups   =     81
```

```
Moment conditions:      linear =     26      Obs per group:   min =     10
                        nonlinear =    0              avg =   12.83951
                        total =     26              max =     13
```

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_serv_cf	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_serv_cf						
L1.	.5740374	.1033601	5.55	0.000	.3714553	.7766194
L2.	.131805	.0717076	1.84	0.066	-.0087394	.2723494
elec_t	.0374195	.0660763	0.57	0.571	-.0920878	.1669267
l_rpc_total_expenses	-.3737305	1.150923	-0.32	0.745	-2.629499	1.882038
Age	.0168957	.0104979	1.61	0.108	-.0036798	.0374712
sex						
Male	-.2674786	.2201252	-1.22	0.224	-.698916	.1639589
k_12centers	-.0018413	.002973	-0.62	0.536	-.0076682	.0039856
gdp	4.48e-08	5.02e-08	0.89	0.372	-5.36e-08	1.43e-07
interest_rate	-.0152252	.0197075	-0.77	0.440	-.0538512	.0234007
debt	-.0165599	.0073764	-2.24	0.025	-.0310173	-.0021024
deficit	3.68e-08	9.33e-08	0.40	0.693	-1.46e-07	2.20e-07
party_type						
National	-.7515835	.8589917	-0.87	0.382	-2.435176	.9320093

Provincial	7.246727	10.59831	0.68	0.494	-13.52558	28.01903
win_margin	-.0050837	.0098445	-0.52	0.606	-.0243786	.0142112
abstentionism	.0273255	.0191513	1.43	0.154	-.0102102	.0648613
pop_share014	.0422597	.0359629	1.18	0.240	-.0282264	.1127458
pop_share65plus	.1924902	.061526	3.13	0.002	.0719014	.313079
_cons	3.562651	16.67448	0.21	0.831	-29.11873	36.24403

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L2.l_rpc_serv_cf L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
  L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
  L1.abstentionism L1.pop_share014 L1.pop_share65plus L1.l_rpc_total_expenses
2, model(level):
  D.L1.l_rpc_serv_cf D.L2.l_rpc_serv_cf D.elec_t D.Age D.2.sex D.k_12centers
  D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(10) = 10.2408
 Prob > chi2 = 0.4196

2-step moment functions, 3-step weighting matrix chi2(10) = 14.7764
 Prob > chi2 = 0.1404

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -4.4917 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = 1.0279 Prob > |z| = 0.3040

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .16429486

Step 2 f(b) = .30454645

Fitting reduced model 2:

Step 1 f(b) = .1297402

Group variable: **mun_id** Number of obs = 1040

Time variable: **year** Number of groups = 81

Moment conditions: linear = 41 Obs per group: min = 10
 nonlinear = 0 avg = 12.83951
 total = 41 max = 13

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_serv_cf	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_serv_cf						
L1.	.4926927	.0892033	5.52	0.000	.3178575	.667528
L2.	.0715608	.0591546	1.21	0.226	-.04438	.1875017
elec_t	.0355697	.0613114	0.58	0.562	-.0845984	.1557379
l_rpc_total_expenses	-.5534084	.8294497	-0.67	0.505	-2.1791	1.072283
Age	.0155608	.008898	1.75	0.080	-.001879	.0330006
sex						
Male	-.1725934	.173249	-1.00	0.319	-.5121552	.1669684
k_12centers	-.0032134	.0023104	-1.39	0.164	-.0077418	.0013149
gdp	5.80e-08	3.69e-08	1.57	0.116	-1.44e-08	1.30e-07
interest_rate	-.0186206	.0129692	-1.44	0.151	-.0440397	.0067985
debt	-.01329	.0079778	-1.67	0.096	-.0289262	.0023462
deficit	-1.13e-09	1.05e-07	-0.01	0.991	-2.08e-07	2.05e-07
party_type						
National	-.8302622	.6996027	-1.19	0.235	-2.201458	.540934
Provincial	4.175757	7.635818	0.55	0.584	-10.79017	19.14169

win_margin	-.0045397	.009874	-0.46	0.646	-.0238924	.014813
abstentionism	.0217969	.0179384	1.22	0.224	-.0133617	.0569556
pop_share014	.0454996	.0239403	1.90	0.057	-.0014225	.0924217
pop_share65plus	.1422617	.0680907	2.09	0.037	.0088064	.275717
_cons	7.477846	11.01978	0.68	0.497	-14.12052	29.07622

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L2.l_rpc_serv_cf L2.L2.l_rpc_serv_cf L1.Age L2.Age L1.2.sex L2.2.sex
  L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
  L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
  L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
  L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
  L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
  L1.l_rpc_total_expenses L2.l_rpc_total_expenses
2, model(level):
  D.L.l_rpc_serv_cf D.L2.l_rpc_serv_cf D.elec_t D.Age D.2.sex D.k_12centers
  D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(25) = 24.6683
 Prob > chi2 = 0.4811

2-step moment functions, 3-step weighting matrix chi2(25) = 28.9620
 Prob > chi2 = 0.2655

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -4.5067 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = 1.3217 Prob > |z| = 0.1863

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .19938104

Step 2 f(b) = .40351343

Fitting reduced model 2:

Step 1 f(b) = .28023283

Group variable: **mun_id** Number of obs = 1040

Time variable: **year** Number of groups = 81

Moment conditions: linear = 54 Obs per group: min = 10
 nonlinear = 0 avg = 12.83951
 total = 54 max = 13

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_serv_cf	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_serv_cf						
L1.	.5203347	.0589617	8.82	0.000	.4047719	.6358976
L2.	.0579799	.05034	1.15	0.249	-.0406848	.1566445
elec_t	-.0174523	.0506127	-0.34	0.730	-.1166514	.0817468
l_rpc_total_expenses	-.0001236	.4123783	-0.00	1.000	-.8083701	.8081229
Age	.0091214	.0077669	1.17	0.240	-.0061014	.0243442
sex						
Male	-.1225519	.1406407	-0.87	0.384	-.3982026	.1530988
k_12centers	-.0017318	.0018003	-0.96	0.336	-.0052603	.0017967
gdp	4.19e-08	2.10e-08	1.99	0.046	6.71e-10	8.31e-08
interest_rate	-.0274726	.0123996	-2.22	0.027	-.0517753	-.0031699
debt	-.0161407	.0050482	-3.20	0.001	-.026035	-.0062464
deficit	4.52e-08	7.39e-08	0.61	0.541	-9.97e-08	1.90e-07

party_type						
National	-.7253336	.7086224	-1.02	0.306	-2.114208	.6635407
Provincial	3.439942	5.710283	0.60	0.547	-7.752007	14.63189
win_margin	-.0087696	.0087527	-1.00	0.316	-.0259245	.0083854
abstentionism	.0275255	.0186003	1.48	0.139	-.0089304	.0639815
pop_share014	.027933	.021951	1.27	0.203	-.0150902	.0709563
pop_share65plus	.1364221	.0500415	2.73	0.006	.0383425	.2345016
_cons	-.0843747	5.735528	-0.01	0.988	-11.3258	11.15705

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.1_rpc_serv_cf L2.L2.1_rpc_serv_cf L3.L2.1_rpc_serv_cf L1.Age L2.Age
 L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
 L3.k_12centers L1.gdp L2.gdp L3.gdp L3.interest_rate L1.debt L2.debt
 L3.debt L1.deficit L2.deficit L3.deficit L1.2bn.party_type
 L2.2bn.party_type L3.2bn.party_type L1.3.party_type L2.3.party_type
 L3.3.party_type L1.win_margin L2.win_margin L3.win_margin L1.abstentionism
 L2.abstentionism L3.abstentionism L1.pop_share014 L2.pop_share014
 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus
 L1.1_rpc_total_expenses L2.1_rpc_total_expenses L3.1_rpc_total_expenses

2, model(level):

D.L.1_rpc_serv_cf D.L2.1_rpc_serv_cf D.elec_t D.Age D.2.sex D.k_12centers
 D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(38) = 32.6846
 Prob > chi2 = 0.7134

2-step moment functions, 3-step weighting matrix chi2(38) = 49.0329
 Prob > chi2 = 0.1084

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -4.6887 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = 1.4904 Prob > |z| = 0.1361

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .21774049

Step 2 f(b) = .5540256

Fitting reduced model 2:

Step 1 f(b) = .40947066

Group variable: mun_id Number of obs = 1040

Time variable: year Number of groups = 81

Moment conditions: linear = 65 Obs per group: min = 10
 nonlinear = 0 avg = 12.83951
 total = 65 max = 13

(Std. err. adjusted for 81 clusters in mun_id)

l_rpc_serv_cf	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_serv_cf						
L1.	.5062238	.0537637	9.42	0.000	.4008489	.6115986
L2.	.0492991	.0407148	1.21	0.226	-.0305003	.1290986
elec_t	.0089644	.0448081	0.20	0.841	-.0788578	.0967866
l_rpc_total_expenses	-.0272825	.3289655	-0.08	0.934	-.672043	.617478
Age	.0070185	.0072338	0.97	0.332	-.0071595	.0211965
sex						
Male	-.1007352	.1348011	-0.75	0.455	-.3649405	.1634702
k_12centers	-.0020007	.0015638	-1.28	0.201	-.0050656	.0010642

gdp	3.76e-08	1.78e-08	2.12	0.034	2.78e-09	7.24e-08
interest_rate	-.0235451	.0129606	-1.82	0.069	-.0489474	.0018572
debt	-.0143767	.0045614	-3.15	0.002	-.0233168	-.0054366
deficit	3.52e-08	6.11e-08	0.58	0.564	-8.46e-08	1.55e-07
party_type						
National	-.7392425	.5505853	-1.34	0.179	-1.81837	.3398849
Provincial	4.540794	4.984337	0.91	0.362	-5.228328	14.30992
win_margin	-.0034913	.0065729	-0.53	0.595	-.0163739	.0093913
abstentionism	.0236489	.0131592	1.80	0.072	-.0021427	.0494406
pop_share014	.0284934	.0190173	1.50	0.134	-.0087799	.0657666
pop_share65plus	.1496011	.0476205	3.14	0.002	.0562665	.2429356
_cons	.6749859	4.681454	0.14	0.885	-8.500495	9.850467

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
```

```

L1.L2.1_rpc_serv_cf L2.L2.1_rpc_serv_cf L3.L2.1_rpc_serv_cf
L4.L2.1_rpc_serv_cf L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex
L4.2.sex L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp
L2.gdp L3.gdp L4.gdp L1.debt L3.debt L4.debt L1.deficit L2.deficit
L3.deficit L4.deficit L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type
L4.2bn.party_type L1.3.party_type L2.3.party_type L3.3.party_type
L4.3.party_type L1.win_margin L2.win_margin L3.win_margin L4.win_margin
L1.abstentionism L2.abstentionism L3.abstentionism L4.abstentionism
L1.pop_share014 L2.pop_share014 L3.pop_share014 L4.pop_share014
L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus L4.pop_share65plus
L1.1_rpc_total_expenses L2.1_rpc_total_expenses L3.1_rpc_total_expenses
L4.1_rpc_total_expenses

```

```
2, model(level):
```

```
D.L1_rpc_serv_cf D.L2.1_rpc_serv_cf D.Age D.2.sex D.k_12centers D.gdp
D.interest_rate D.debt D.deficit
```

```
3, model(level):
```

cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

[illegible][illegible]

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: $z = -4.7297$ Prob $> |z| = 0.0000$

H0: no autocorrelation of order 2:	$z =$	1.6607	Prob > z =	0.0968
------------------------------------	-------	---------------	--------------	---------------

Generalized method of moments estimation

Fitting full model:

Step 1 $f(b) = .13626256$

Step 2 $f(b) = .15752053$

Fitting reduced model 2:

Step 1 $f(b) = 1.822e-21$

```

Group variable: mun_id           Number of obs   =   1092
Time variable: year             Number of groups =    81

```

Moment conditions:	linear =	25	Obs per group:	min =	5
	nonlinear =	0		avg =	13.48148
	total =	25		max =	14

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_cap_prot	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_prot						
L1.	.2061651	.0970189	2.12	0.034	.0160115	.3963187
elec_t	.2988645	.1023595	2.92	0.004	.0982437	.4994854
l_rpc_total_expenses	-.5455446	.7009322	-0.78	0.436	-1.919347	.8282573
Age	.0113958	.0154885	0.74	0.462	-.0189612	.0417527
sex						
Male	.2059653	.306605	0.67	0.502	-.3949694	.8069
k_12centers	.0014799	.0031856	0.46	0.642	-.0047638	.0077235
gdp	8.12e-08	3.85e-08	2.11	0.035	5.67e-09	1.57e-07
interest_rate	.0655137	.0265225	2.47	0.014	.0135305	.1174969
debt	-.0488069	.0173465	-2.81	0.005	-.0828054	-.0148085
deficit	-4.38e-08	2.52e-07	-0.17	0.862	-5.38e-07	4.50e-07
party_type						
National	-.9876007	.7921598	-1.25	0.213	-2.540205	.565004
Provincial	-23.09598	19.34884	-1.19	0.233	-61.019	14.82705
win_margin	.0305698	.0188364	1.62	0.105	-.0063487	.0674884
abstentionism	-.0485914	.0318015	-1.53	0.127	-.1109211	.0137383
pop_share014	.0384393	.0406793	0.94	0.345	-.0412907	.1181693
pop_share65plus	.1170732	.2134114	0.55	0.583	-.3012055	.5353519
_cons	13.99335	10.78447	1.30	0.194	-7.143818	35.13051

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L1_rpc_cap_prot L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
  L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
  L1.abstentionism L1.pop_share014 L1.pop_share65plus L1.l_rpc_total_expenses
2, model(level):
  D.L1_rpc_cap_prot D.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(10)      =    12.7592
                                                         Prob > chi2    =    0.2375

```

```

2-step moment functions, 3-step weighting matrix      chi2(10)      =    23.0324
                                                         Prob > chi2    =    0.0106

```

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-3.4142** Prob > |z| = **0.0006**H0: no autocorrelation of order 2: z = **1.1277** Prob > |z| = **0.2594**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.40285077**Step 2 f(b) = **.43677916**

Fitting reduced model 2:

Step 1 f(b) = **.31458498**Group variable: **mun_id**Number of obs = **1092**Time variable: **year**Number of groups = **81**

```

Moment conditions:   linear =    40   Obs per group:   min =    5
                    nonlinear =    0   avg =   13.48148
                    total =    40   max =    14

```


(Std. err. adjusted for 81 clusters in `mun_id`)

<code>l_rpc_cap_prot</code>	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
<code>l_rpc_cap_prot</code> L1.	.2095287	.1224975	1.71	0.087	-.030562	.4496194
elec_t	.3896403	.081971	4.75	0.000	.2289802	.5503004
<code>l_rpc_total_expenses</code> Age	-.0163087	.6422244	-0.03	0.980	-1.275045	1.242428
sex	.0018463	.015287	0.12	0.904	-.0281156	.0318083
Male	.3329117	.2871618	1.16	0.246	-.2299152	.8957386
k_12centers	.0008844	.003557	0.25	0.804	-.0060873	.007856
gdp	9.07e-08	3.72e-08	2.44	0.015	1.78e-08	1.64e-07
interest_rate	.0083345	.0289973	0.29	0.774	-.0484991	.0651681
debt	-.0295723	.0100457	-2.94	0.003	-.0492615	-.009883
deficit	-4.77e-07	1.29e-07	-3.69	0.000	-7.31e-07	-2.24e-07
party_type						
National	-.255808	1.277126	-0.20	0.841	-2.758928	2.247312
Provincial	-20.39412	19.37688	-1.05	0.293	-58.37211	17.58387
win_margin	.0450922	.0205508	2.19	0.028	.0048133	.0853711
abstentionism	-.1003313	.0341179	-2.94	0.003	-.1672011	-.0334615
pop_share014	.1024189	.0511241	2.00	0.045	.0022174	.2026203
pop_share65plus	-.3527323	.1470761	-2.40	0.016	-.6409962	-.0644683
_cons	9.33197	9.298435	1.00	0.316	-8.892629	27.55657

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L1.rpc_cap_prot L2.L1.rpc_cap_prot L1.Age L2.Age L1.2.sex L2.2.sex
  L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
  L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
  L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
  L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
  L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
  L1.l_rpc_total_expenses L2.l_rpc_total_expenses
2, model(level):
  D.L1.rpc_cap_prot D.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(25)      =    35.3791
                                                        Prob > chi2    =     0.0816

```

```

2-step moment functions, 3-step weighting matrix      chi2(25)      =    45.0671
                                                        Prob > chi2    =     0.0082

```

Arellano-Bond test for autocorrelation of the first-differenced residuals

```

H0: no autocorrelation of order 1:      z =    -2.6590      Prob > |z|    =     0.0078
H0: no autocorrelation of order 2:      z =     1.4573      Prob > |z|    =     0.1450

```

Generalized method of moments estimation

Fitting full model:

```

Step 1      f(b) =    .59005776
Step 2      f(b) =    .6497671

```

Fitting reduced model 2:

```

Step 1      f(b) =    .55111273

```

Group variable: `mun_id`

Number of obs = 1092

Time variable: `year`

Number of groups = 81

Moment conditions: linear = 55 Obs per group: min = 5
 nonlinear = 0 avg = 13.48148
 total = 55 max = 14

(Std. err. adjusted for 81 clusters in mun_id)

l_rpc_cap_prot	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_prot						
L1.	.2923499	.1025386	2.85	0.004	.0913779	.4933219
elec_t	.3764649	.0883224	4.26	0.000	.2033562	.5495736
l_rpc_total_expenses	.4514697	.5170648	0.87	0.383	-.5619587	1.464898
Age	-.0060808	.016487	-0.37	0.712	-.0383948	.0262332
sex						
Male	.3765384	.2974348	1.27	0.206	-.2064231	.9594999
k_12centers	.0001073	.0032687	0.03	0.974	-.0062994	.0065139
gdp	5.40e-08	2.89e-08	1.87	0.062	-2.61e-09	1.11e-07
interest_rate	.0130272	.0245641	0.53	0.596	-.0351175	.0611719
debt	-.0281722	.0083312	-3.38	0.001	-.0445011	-.0118433
deficit	-4.11e-07	1.05e-07	-3.93	0.000	-6.16e-07	-2.06e-07
party_type						
National	-.5392854	1.631979	-0.33	0.741	-3.737906	2.659335
Provincial	-10.30495	14.32473	-0.72	0.472	-38.38091	17.77101
win_margin	.0420837	.0177315	2.37	0.018	.0073307	.0768368
abstentionism	-.0881332	.0302884	-2.91	0.004	-.1474974	-.0287691
pop_share014	.0740801	.0440891	1.68	0.093	-.0123329	.1604932
pop_share65plus	-.2848992	.1227118	-2.32	0.020	-.5254099	-.0443885
_cons	2.933542	7.719535	0.38	0.704	-12.19647	18.06355

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L.1_rpc_cap_prot L2.L.1_rpc_cap_prot L3.L.1_rpc_cap_prot L1.Age L2.Age
  L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
  L3.k_12centers L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate
  L3.interest_rate L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit
  L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L1.3.party_type
  L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
  L1.abstentionism L2.abstentionism L3.abstentionism L1.pop_share014
  L2.pop_share014 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus
  L3.pop_share65plus L1.l_rpc_total_expenses L2.l_rpc_total_expenses
  L3.l_rpc_total_expenses
2, model(level):
  D.L.1_rpc_cap_prot D.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(40) = 52.6311
 Prob > chi2 = 0.0871

2-step moment functions, 3-step weighting matrix chi2(40) = 57.6224
 Prob > chi2 = 0.0351

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -3.0890 Prob > |z| = 0.0020
 H0: no autocorrelation of order 2: z = 1.6725 Prob > |z| = 0.0944

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .68817512
 Step 2 f(b) = .75777136

Fitting reduced model 2:

Step 1 f(b) = .7123635

Group variable: **mun_id**

Number of obs = 1092

Time variable: **year**

Number of groups = 81

Moment conditions:

linear =	67
nonlinear =	0
total =	67

Obs per group:

min =	5
avg =	13.48148
max =	14

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_cap_prot	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_prot L1.	.2692545	.1002719	2.69	0.007	.0727252	.4657837
elec_t	.3383151	.0772362	4.38	0.000	.186935	.4896953
l_rpc_total_expenses	.5025773	.6009684	0.84	0.403	-.6752992	1.680454
Age	-.0000277	.0147684	-0.00	0.999	-.0289732	.0289177
sex						
Male	.3934259	.280896	1.40	0.161	-.1571202	.943972
k_12centers	-.0001115	.0027965	-0.04	0.968	-.0055926	.0053695
gdp	5.89e-08	3.15e-08	1.87	0.061	-2.80e-09	1.21e-07
interest_rate	.0174052	.0249898	0.70	0.486	-.0315739	.0663843
debt	-.0288557	.0077926	-3.70	0.000	-.0441289	-.0135825
deficit	-3.78e-07	1.08e-07	-3.51	0.000	-5.90e-07	-1.67e-07
party_type						
National	-.6609737	1.156639	-0.57	0.568	-2.927944	1.605996
Provincial	-10.90843	13.28304	-0.82	0.412	-36.94271	15.12586
win_margin	.0468081	.01308	3.58	0.000	.0211717	.0724445
abstentionism	-.0790815	.0283726	-2.79	0.005	-.1346907	-.0234723
pop_share014	.0686365	.0475673	1.44	0.149	-.0245936	.1618666
pop_share65plus	-.2802346	.1268491	-2.21	0.027	-.5288543	-.0316148
_cons	1.599928	8.423213	0.19	0.849	-14.90927	18.10912

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L.1_rpc_cap_prot L2.L.1_rpc_cap_prot L3.L.1_rpc_cap_prot
 L4.L.1_rpc_cap_prot L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex
 L4.2.sex L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp
 L2.gdp L3.gdp L4.gdp L2.interest_rate L1.debt L2.debt L3.debt L4.debt
 L1.deficit L2.deficit L3.deficit L4.deficit L1.2bn.party_type
 L2.2bn.party_type L3.2bn.party_type L4.2bn.party_type L1.3.party_type
 L2.3.party_type L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin
 L3.win_margin L4.win_margin L1.abstentionism L2.abstentionism
 L3.abstentionism L4.abstentionism L1.pop_share014 L2.pop_share014
 L3.pop_share014 L4.pop_share014 L1.pop_share65plus L2.pop_share65plus
 L3.pop_share65plus L4.pop_share65plus L1.l_rpc_total_expenses
 L2.l_rpc_total_expenses L3.l_rpc_total_expenses L4.l_rpc_total_expenses

2, model(level):

D.L.1_rpc_cap_prot D.elec_t D.Age D.2.sex D.k_12centers D.gdp
 D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(52) = 61.3795
 Prob > chi2 = 0.1751

2-step moment functions, 3-step weighting matrix chi2(52) = 68.2549
 Prob > chi2 = 0.0647

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-3.0258** Prob > |z| = **0.0025**
H0: no autocorrelation of order 2: z = **1.5304** Prob > |z| = **0.1259**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.07385227**

Step 2 f(b) = **.08087268**

Fitting reduced model 2:

Step 1 f(b) = **8.421e-23**

Group variable: **mun_id**

Number of obs = **1007**

Time variable: **year**

Number of groups = **81**

Moment conditions: linear = **26** Obs per group: min = **3**
nonlinear = **0** avg = **12.4321**
total = **26** max = **13**

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_cap_prot	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_prot						
L1.	.4227242	.1810003	2.34	0.020	.0679702	.7774782
L2.	.2761455	.0674027	4.10	0.000	.1440387	.4082524
elec_t	.3248791	.0638995	5.08	0.000	.1996383	.4501199
l_rpc_total_expenses	1.465011	1.088759	1.35	0.178	-.6689183	3.59894
Age	.0000635	.0138168	0.00	0.996	-.0270169	.0271438
sex						
Male	.8963721	.2769601	3.24	0.001	.3535403	1.439204
k_12centers	-.0024535	.0035857	-0.68	0.494	-.0094814	.0045744
gdp	6.61e-08	4.99e-08	1.33	0.185	-3.16e-08	1.64e-07
interest_rate	-.007066	.0305572	-0.23	0.817	-.0669571	.052825
debt	-.0517086	.0122672	-4.22	0.000	-.0757519	-.0276652
deficit	-3.68e-07	1.24e-07	-2.97	0.003	-6.11e-07	-1.25e-07
party_type						
National	-.2744026	.7679496	-0.36	0.721	-1.779556	1.230751
Provincial	7.567847	15.20187	0.50	0.619	-22.22727	37.36296
win margin	.023683	.0137904	1.72	0.086	-.0033457	.0507117
abstentionism	-.0439582	.0272503	-1.61	0.107	-.0973678	.0094515
pop_share014	.1022321	.0376563	2.71	0.007	.0284272	.176037
pop_share65plus	-.3546685	.1842595	-1.92	0.054	-.7158104	.0064734
_cons	-17.29343	14.65461	-1.18	0.238	-46.01594	11.42908

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.l_rpc_cap_prot L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate

L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin

L1.abstentionism L1.pop_share014 L1.pop_share65plus L1.l_rpc_total_expenses

2, model(level):

D.L.l_rpc_cap_prot D.L2.l_rpc_cap_prot D.elec_t D.Age D.2.sex D.k_12centers

D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(10) = **6.5507**
Prob > chi2 = **0.7671**

2-step moment functions, 3-step weighting matrix chi2(10) = **8.0950**
Prob > chi2 = **0.6196**

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-2.0663** Prob > |z| = **0.0388**
H0: no autocorrelation of order 2: z = **-1.0611** Prob > |z| = **0.2886**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.1596429**
Step 2 f(b) = **.27658314**

Fitting reduced model 2:

Step 1 f(b) = **.17383249**

Group variable: **mun_id** Number of obs = **1007**
Time variable: **year** Number of groups = **81**

Moment conditions: linear = **41** Obs per group: min = **3**
nonlinear = **0** avg = **12.4321**
total = **41** max = **13**

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_cap_prot	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_prot						
L1.	.4034665	.1608903	2.51	0.012	.0881272	.7188057
L2.	.2732222	.0867737	3.15	0.002	.1031489	.4432955
elec_t	.3117797	.0719641	4.33	0.000	.1707326	.4528268
l_rpc_total_expenses	1.705233	.830039	2.05	0.040	.0783865	3.33208
Age	-.0023883	.0148255	-0.16	0.872	-.0314456	.0266691
sex						
Male	.8732241	.3192685	2.74	0.006	.2474694	1.498979
k_12centers	-.0019654	.0032037	-0.61	0.540	-.0082446	.0043137
gdp	6.77e-08	4.14e-08	1.64	0.102	-1.34e-08	1.49e-07
interest_rate	-.0023149	.0238649	-0.10	0.923	-.0490891	.0444594
debt	-.0497067	.0125043	-3.98	0.000	-.0742146	-.0251987
deficit	-4.35e-07	1.33e-07	-3.26	0.001	-6.96e-07	-1.73e-07
party_type						
National	-.0864606	.8813962	-0.10	0.922	-1.813965	1.641044
Provincial	3.750476	14.51406	0.26	0.796	-24.69657	32.19752
win_margin	.0356975	.0137891	2.59	0.010	.0086715	.0627236
abstentionism	-.0487772	.0272471	-1.79	0.073	-.1021806	.0046261
pop_share014	.0929657	.0346026	2.69	0.007	.0251459	.1607855
pop_share65plus	-.4035777	.1789932	-2.25	0.024	-.7543979	-.0527575
_cons	-20.31933	10.8786	-1.87	0.062	-41.641	1.002332

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.l_rpc_cap_prot L2.L2.l_rpc_cap_prot L1.Age L2.Age L1.2.sex L2.2.sex
L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
L1.l_rpc_total_expenses L2.l_rpc_total_expenses

2, model(level):

D.L.l_rpc_cap_prot D.L2.l_rpc_cap_prot D.elec_t D.Age D.2.sex D.k_12centers
D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(25) = **22.4032**
Prob > chi2 = **0.6124**

2-step moment functions, 3-step weighting matrix $\chi^2(25) = 23.3951$
 Prob > $\chi^2 = 0.5545$

Arellano-Bond test for autocorrelation of the first-differenced residuals
 H0: no autocorrelation of order 1: $z = -2.2045$ Prob > $|z| = 0.0275$
 H0: no autocorrelation of order 2: $z = -1.0329$ Prob > $|z| = 0.3016$

Generalized method of moments estimation

Fitting full model:

Step 1 $f(b) = .30634077$
 Step 2 $f(b) = .55538065$

Fitting reduced model 2:

Step 1 $f(b) = .49262778$

Group variable: **mun_id** Number of obs = 1007
 Time variable: **year** Number of groups = 81

Moment conditions: linear = 56 Obs per group: min = 3
 nonlinear = 0 avg = 12.4321
 total = 56 max = 13

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_cap_prot	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_prot						
L1.	.3259622	.1959016	1.66	0.096	-.0579978	.7099222
L2.	.2377049	.1166054	2.04	0.041	.0091624	.4662474
elec_t	.2303125	.0790975	2.91	0.004	.0752843	.3853406
l_rpc_total_expenses	1.267299	.6537688	1.94	0.053	-.0140638	2.548663
Age	.0019125	.0197716	0.10	0.923	-.0368392	.0406642
sex						
Male	.7214169	.4135445	1.74	0.081	-.0891154	1.531949
k_12centers	.0001232	.0033946	0.04	0.971	-.0065301	.0067765
gdp	8.55e-08	3.92e-08	2.18	0.029	8.74e-09	1.62e-07
interest_rate	.0176157	.0233573	0.75	0.451	-.0281638	.0633952
debt	-.0630719	.0135809	-4.64	0.000	-.08969	-.0364538
deficit	-3.13e-07	1.32e-07	-2.38	0.017	-5.71e-07	-5.48e-08
party_type						
National	-1.250192	1.534653	-0.81	0.415	-4.258057	1.757673
Provincial	-.5915042	12.59948	-0.05	0.963	-25.28603	24.10302
win_margin	.0308132	.0184936	1.67	0.096	-.0054335	.06706
abstentionism	-.0472331	.030682	-1.54	0.124	-.1073687	.0129024
pop_share014	.0629975	.0467553	1.35	0.178	-.0286413	.1546363
pop_share65plus	-.224983	.1516095	-1.48	0.138	-.5221321	.0721661
_cons	-12.50189	8.742905	-1.43	0.153	-29.63767	4.63389

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.l_rpc_cap_prot L2.L2.l_rpc_cap_prot L3.L2.l_rpc_cap_prot L1.Age
 L2.Age L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
 L3.k_12centers L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate
 L3.interest_rate L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit
 L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L1.3.party_type
 L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
 L1.abstentionism L2.abstentionism L3.abstentionism L1.pop_share014
 L2.pop_share014 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus
 L3.pop_share65plus L1.l_rpc_total_expenses L2.l_rpc_total_expenses
 L3.l_rpc_total_expenses

2, model(level):

D.L.l_rpc_cap_prot D.L2.l_rpc_cap_prot D.elec_t D.Age D.2.sex D.k_12centers
 D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix $\chi^2(40) = 44.9858$
Prob > $\chi^2 = 0.2710$

2-step moment functions, 3-step weighting matrix $\chi^2(40) = 50.9000$
Prob > $\chi^2 = 0.1159$

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: $z = -1.9106$ Prob > $|z| = 0.0561$
H0: no autocorrelation of order 2: $z = -0.8934$ Prob > $|z| = 0.3716$

Generalized method of moments estimation

Fitting full model:

Step 1 $f(b) = .3820315$
Step 2 $f(b) = .63106959$

Fitting reduced model 2:

Step 1 $f(b) = .55779282$

Group variable: **mun_id** Number of obs = 1007
Time variable: **year** Number of groups = 81

Moment conditions: linear = 67 Obs per group: min = 3
 nonlinear = 0 avg = 12.4321
 total = 67 max = 13

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_cap_prot	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_prot						
L1.	.3228637	.1884492	1.71	0.087	-.0464899	.6922174
L2.	.2227709	.1226074	1.82	0.069	-.0175351	.4630769
elec_t	.2441337	.0789394	3.09	0.002	.0894154	.398852
l_rpc_total_expenses	1.241254	.6701843	1.85	0.064	-.0722832	2.554791
Age	.0044211	.0158825	0.28	0.781	-.026708	.0355502
sex						
Male	.6093603	.4072787	1.50	0.135	-.1888913	1.407612
k_12centers	.0004811	.0032179	0.15	0.881	-.005826	.0067881
gdp	8.47e-08	4.01e-08	2.11	0.035	6.09e-09	1.63e-07
interest_rate	.0160378	.0241378	0.66	0.506	-.0312714	.0633471
debt	-.0626457	.0126041	-4.97	0.000	-.0873492	-.0379421
deficit	-3.24e-07	1.38e-07	-2.36	0.018	-5.94e-07	-5.44e-08
party_type						
National	-1.437378	1.461158	-0.98	0.325	-4.301195	1.426439
Provincial	-3.860927	8.81351	-0.44	0.661	-21.13509	13.41323
win_margin	.0306456	.0152784	2.01	0.045	.0007005	.0605907
abstentionism	-.0479682	.0259694	-1.85	0.065	-.0988673	.0029309
pop_share014	.0648845	.0554924	1.17	0.242	-.0438785	.1736475
pop_share65plus	-.2124863	.1474561	-1.44	0.150	-.5014949	.0765224
_cons	-11.98877	9.271548	-1.29	0.196	-30.16067	6.183133

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.1_rpc_cap_prot L2.L2.1_rpc_cap_prot L3.L2.1_rpc_cap_prot
L4.L2.1_rpc_cap_prot L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex
L4.2.sex L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp
L2.gdp L3.gdp L4.gdp L2.interest_rate L2.debt L3.debt L4.debt L1.deficit
L2.deficit L3.deficit L4.deficit L1.2bn.party_type L2.2bn.party_type
L3.2bn.party_type L4.2bn.party_type L1.3.party_type L2.3.party_type
L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin L3.win_margin
L4.win_margin L1.abstentionism L2.abstentionism L3.abstentionism
L4.abstentionism L1.pop_share014 L2.pop_share014 L3.pop_share014
L4.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus

```

L4.pop_share65plus L1.l_rpc_total_expenses L2.l_rpc_total_expenses
L3.l_rpc_total_expenses L4.l_rpc_total_expenses
2, model(level):
  D.L.l_rpc_cap_prot D.L2.l_rpc_cap_prot D.elec_t D.Age D.2.sex D.k_12centers
  D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(51) = 51.1166
Prob > chi2 = 0.4691

2-step moment functions, 3-step weighting matrix chi2(51) = 67.2189
Prob > chi2 = 0.0635

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = -2.0001 Prob > |z| = 0.0455
H0: no autocorrelation of order 2: z = -0.7400 Prob > |z| = 0.4593

Generalized method of moments estimation

Fitting full model:
Step 1 f(b) = .01641018
Step 2 f(b) = .03746931

Fitting reduced model 2:
Step 1 f(b) = 2.415e-21

Group variable: **mun_id** Number of obs = 1125
Time variable: **year** Number of groups = 81

Moment conditions: linear = 25 Obs per group: min = 11
 nonlinear = 0 avg = 13.88889
 total = 25 max = 14

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_maintenance	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_maintenance						
L1.	.3908499	.0731116	5.35	0.000	.2475452	.5341547
elec_t	-.0055796	.0404213	-0.14	0.890	-.084804	.0736448
l_rpc_total_expenses	-.3104234	.1956558	-1.59	0.113	-.6939017	.073055
Age	.0021673	.0067582	0.32	0.748	-.0110785	.0154131
sex						
Male	-.3307157	.1654098	-2.00	0.046	-.6549129	-.0065185
k_12centers	-.0025491	.0013128	-1.94	0.052	-.0051221	.0000239
gdp	3.81e-08	1.23e-08	3.10	0.002	1.40e-08	6.22e-08
interest_rate	-.0025162	.0178242	-0.14	0.888	-.0374509	.0324186
debt	-.0059423	.004916	-1.21	0.227	-.0155775	.0036929
deficit	-5.89e-09	7.77e-08	-0.08	0.940	-1.58e-07	1.46e-07
party_type						
National	-.0089293	.3811663	-0.02	0.981	-.7560014	.7381429
Provincial	2.568085	8.224548	0.31	0.755	-13.55173	18.6879
win_margin	-.007025	.0051133	-1.37	0.169	-.017047	.0029969
abstentionism	-.0000578	.0099834	-0.01	0.995	-.0196248	.0195092
pop_share014	.0332185	.0124608	2.67	0.008	.0087958	.0576413
pop_share65plus	.0488875	.0518884	0.94	0.346	-.052812	.1505869
_cons	7.70152	2.743905	2.81	0.005	2.323565	13.07948

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L.l_rpc_maintenance L1.Age L1.2.sex L1.k_12centers L1.gdp
  L1.interest_rate L1.debt L1.deficit L1.bn.party_type L1.3.party_type
  L1.win_margin L1.abstentionism L1.pop_share014 L1.pop_share65plus

```



```

L1.l_rpc_total_expenses
2, model(level):
  D.L1_rpc_maintenance D.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(10) = **3.0350**
Prob > chi2 = **0.9806**

2-step moment functions, 3-step weighting matrix chi2(10) = **3.2881**
Prob > chi2 = **0.9738**

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = **-6.1743** Prob > |z| = **0.0000**
H0: no autocorrelation of order 2: z = **1.3648** Prob > |z| = **0.1723**

Generalized method of moments estimation

Fitting full model:
Step 1 f(b) = **.07309871**
Step 2 f(b) = **.27266609**

Fitting reduced model 2:
Step 1 f(b) = **.1646871**

Group variable: **mun_id** Number of obs = **1125**
Time variable: **year** Number of groups = **81**

Moment conditions: linear = **40** Obs per group: min = **11**
 nonlinear = **0** avg = **13.88889**
 total = **40** max = **14**

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_maintenance	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_maintenance						
L1.	.4523242	.0577544	7.83	0.000	.3391275	.5655208
elec_t	.0077395	.0438647	0.18	0.860	-.0782337	.0937126
l_rpc_total_expenses	-.229558	.2698396	-0.85	0.395	-.7584339	.299318
Age	.0038687	.0074246	0.52	0.602	-.0106832	.0184206
sex						
Male	-.2161368	.1734567	-1.25	0.213	-.5561056	.1238321
k_12centers	-.0016412	.0013444	-1.22	0.222	-.0042762	.0009939
gdp	3.45e-08	1.45e-08	2.39	0.017	6.15e-09	6.28e-08
interest_rate	-.0181793	.0161412	-1.13	0.260	-.0498156	.0134569
_debt	-.0058899	.0043554	-1.35	0.176	-.0144262	.0026465
deficit	-7.16e-09	7.52e-08	-0.10	0.924	-1.55e-07	1.40e-07
party_type						
National	.0795155	.3994109	0.20	0.842	-.7033155	.8623464
Provincial	-2.533454	6.612956	-0.38	0.702	-15.49461	10.4277
win_margin	-.0061985	.0071523	-0.87	0.386	-.0202168	.0078198
abstentionism	-.0056879	.0109506	-0.52	0.603	-.0271506	.0157748
pop_share014	.0286497	.0190571	1.50	0.133	-.0087016	.066001
pop_share65plus	.0081948	.0499955	0.16	0.870	-.0897945	.1061841
_cons	6.672153	4.140231	1.61	0.107	-1.44255	14.78686

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L1_rpc_maintenance L2.L1_rpc_maintenance L1.Age L2.Age L1.2.sex
  L2.2.sex L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
  L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
  L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin

```

```

L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
L1.l_rpc_total_expenses L2.l_rpc_total_expenses
2, model(level):
  D.L.l_rpc_maintenance D.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(25) = **22.0860**
Prob > chi2 = **0.6308**

2-step moment functions, 3-step weighting matrix chi2(25) = **22.3935**
Prob > chi2 = **0.6129**

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = **-6.1151** Prob > |z| = **0.0000**
H0: no autocorrelation of order 2: z = **1.2475** Prob > |z| = **0.2122**

Generalized method of moments estimation

Fitting full model:
Step 1 f(b) = **.11397248**
Step 2 f(b) = **.42939658**

Fitting reduced model 2:
Step 1 f(b) = **.3043499**

Group variable: **mun_id** Number of obs = **1125**
Time variable: **year** Number of groups = **81**

Moment conditions: linear = **54** Obs per group: min = **11**
 nonlinear = **0** avg = **13.88889**
 total = **54** max = **14**

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_maintenance	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_maintenance						
L1.	.4582228	.0548979	8.35	0.000	.3506248	.5658207
elec_t	.0083982	.0549747	0.15	0.879	-.0993502	.1161465
l_rpc_total_expenses	.0538868	.3604757	0.15	0.881	-.6526326	.7604062
Age	.0033097	.0061439	0.54	0.590	-.0087321	.0153515
sex						
Male	-.128218	.1457072	-0.88	0.379	-.4137988	.1573629
k_12centers	-.0015815	.0015399	-1.03	0.304	-.0045996	.0014367
gdp	2.20e-08	1.98e-08	1.11	0.268	-1.69e-08	6.08e-08
interest_rate	-.019166	.0169374	-1.13	0.258	-.0523627	.0140307
_debt	-.0030185	.0061933	-0.49	0.626	-.0151572	.0091202
deficit	-5.27e-08	9.58e-08	-0.55	0.582	-2.41e-07	1.35e-07
party_type						
National	.333994	.2869467	1.16	0.244	-.2284112	.8963992
Provincial	-1.881859	5.97354	-0.32	0.753	-13.58978	9.826065
win_margin	.0016934	.0081636	0.21	0.836	-.014307	.0176938
abstentionism	-.0158761	.0157965	-1.01	0.315	-.0468366	.0150844
pop_share014	.0442663	.013174	3.36	0.001	.0184456	.0700869
pop_share65plus	-.0294829	.0593133	-0.50	0.619	-.1457347	.086769
_cons	2.681059	4.871987	0.55	0.582	-6.867861	12.22998

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L.l_rpc_maintenance L2.L.l_rpc_maintenance L3.L.l_rpc_maintenance L1.Age
  L2.Age L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers

```

```

L3.k_12centers L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate
L3.interest_rate L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit
L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L1.3.party_type
L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
L1.abstentionism L2.abstentionism L3.abstentionism L1.pop_share014
L2.pop_share014 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus
L3.pop_share65plus L1.l_rpc_total_expenses L2.l_rpc_total_expenses
L3.l_rpc_total_expenses
2, model(level):
  D.L1_rpc_maintenance D.Age D.2.sex D.k_12centers D.gdp D.interest_rate
  D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(39)    =    34.7811
                                                        Prob > chi2 =    0.6627

```

```

2-step moment functions, 3-step weighting matrix      chi2(39)    =    38.6380
                                                        Prob > chi2 =    0.4862

```

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = -6.0001 Prob > |z| = 0.0000
H0: no autocorrelation of order 2: z = 1.2675 Prob > |z| = 0.2050

Generalized method of moments estimation

```

Fitting full model:
Step 1          f(b) =  .16925784
Step 2          f(b) =  .57999704

```

```

Fitting reduced model 2:
Step 1          f(b) =  .47488729

```

```

Group variable:  mun_id          Number of obs      =    1125
Time variable:  year            Number of groups   =     81

```

```

Moment conditions:   linear =    65      Obs per group:   min =    11
                    nonlinear =    0      avg =   13.88889
                    total =    65      max =    14

```

(Std. err. adjusted for 81 clusters in mun_id)

	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_maintenance						
l_rpc_maintenance						
L1.	.4500443	.0653079	6.89	0.000	.3220432	.5780453
elec_t	-.0078922	.0436105	-0.18	0.856	-.0933672	.0775828
l_rpc_total_expenses	.0040008	.3114306	0.01	0.990	-.606392	.6143936
Age	.0073733	.0053835	1.37	0.171	-.0031782	.0179248
sex						
Male	-.2189522	.1070806	-2.04	0.041	-.4288264	-.0090779
k_12centers	-.0016993	.0014257	-1.19	0.233	-.0044936	.0010949
gdp	2.90e-08	1.85e-08	1.56	0.118	-7.32e-09	6.53e-08
interest_rate	-.0222443	.0146502	-1.52	0.129	-.0509581	.0064696
debt	-.0055862	.0049641	-1.13	0.260	-.0153156	.0041432
deficit	2.16e-08	7.44e-08	0.29	0.771	-1.24e-07	1.68e-07
party_type						
National	.2876387	.2261086	1.27	0.203	-.1555259	.7308034
Provincial	-4.025062	5.052365	-0.80	0.426	-13.92751	5.877392
win_margin	.0022594	.0065462	0.35	0.730	-.010571	.0150897
abstentionism	-.0064359	.0116651	-0.55	0.581	-.0292991	.0164273
pop_share014	.0338981	.0175957	1.93	0.054	-.0005889	.0683851
pop_share65plus	-.0176306	.048955	-0.36	0.719	-.1135805	.0783194
_cons	3.071153	4.336643	0.71	0.479	-5.42851	11.57082

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L1_rpc_maintenance L2.L1_rpc_maintenance L3.L1_rpc_maintenance
  L4.L1_rpc_maintenance L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex
  L3.2.sex L4.2.sex L1.k_12centers L2.k_12centers L3.k_12centers
  L4.k_12centers L1.gdp L2.gdp L3.gdp L4.gdp L4.interest_rate L2.debt L3.debt
  L4.debt L1.deficit L2.deficit L3.deficit L4.deficit L1.2bn.party_type
  L2.2bn.party_type L3.2bn.party_type L4.2bn.party_type L1.3.party_type
  L2.3.party_type L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin
  L3.win_margin L4.win_margin L1.abstentionism L2.abstentionism
  L3.abstentionism L4.abstentionism L1.pop_share014 L2.pop_share014
  L3.pop_share014 L4.pop_share014 L1.pop_share65plus L2.pop_share65plus
  L3.pop_share65plus L4.pop_share65plus L1.l_rpc_total_expenses
  L2.l_rpc_total_expenses L3.l_rpc_total_expenses L4.l_rpc_total_expenses
2, model(level):
  D.L1_rpc_maintenance D.Age D.2.sex D.k_12centers D.gdp D.interest_rate
  D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

```
2-step moment functions, 2-step weighting matrix      chi2(50)      =    46.9798
                                                         Prob > chi2    =    0.5953
```

```
2-step moment functions, 3-step weighting matrix      chi2(50)      =    56.3195
                                                         Prob > chi2    =    0.2504
```

Arellano-Bond test for autocorrelation of the first-differenced residuals

```
H0: no autocorrelation of order 1:      z =    -5.9454      Prob > |z|    =    0.0000
H0: no autocorrelation of order 2:      z =     1.2808      Prob > |z|    =    0.2003
```

Generalized method of moments estimation

Fitting full model:

```
Step 1      f(b) =    .05379212
Step 2      f(b) =    .24125128
```

Fitting reduced model 2:

```
Step 1      f(b) =    2.487e-19
```

```
Group variable: mun_id      Number of obs      =    1042
Time variable: year      Number of groups    =     81
```

```
Moment conditions:      linear =    26      Obs per group:      min =    10
                        nonlinear =    0      avg =    12.8642
                        total =    26      max =    13
```

(Std. err. adjusted for 81 clusters in mun_id)

l_rpc_maintenance	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_maintenance						
L1.	.4806313	.082964	5.79	0.000	.3180248	.6432377
L2.	.0634261	.0788088	0.80	0.421	-.0910364	.2178886
elec_t	.0191517	.0726825	0.26	0.792	-.1233034	.1616068
l_rpc_total_expenses	.4009315	1.000853	0.40	0.689	-1.560705	2.362568
Age	.00413	.0119672	0.35	0.730	-.0193254	.0275853
sex						
Male	-.0685841	.2667766	-0.26	0.797	-.5914565	.4542884
k_12centers	-.0000573	.0034846	-0.02	0.987	-.006887	.0067724
gdp	3.36e-09	3.68e-08	0.09	0.927	-6.88e-08	7.55e-08
interest_rate	-.0104635	.0229388	-0.46	0.648	-.0554227	.0344958
debt	-.0055826	.0097795	-0.57	0.568	-.02475	.0135848
deficit	-5.00e-08	1.30e-07	-0.38	0.701	-3.06e-07	2.06e-07
party_type						

National	-.1389404	1.013679	-0.14	0.891	-2.125714	1.847834
Provincial	-3.279101	10.42152	-0.31	0.753	-23.7049	17.1467
win_margin	.0097514	.0111508	0.87	0.382	-.0121038	.0316066
abstentionism	-.0101039	.0194244	-0.52	0.603	-.0481751	.0279673
pop_share014	.0153821	.0242795	0.63	0.526	-.0322048	.062969
pop_share65plus	.0166088	.1008834	0.16	0.869	-.181119	.2143366
_cons	-2.457994	14.31985	-0.17	0.864	-30.52438	25.60839

Instruments corresponding to the linear moment conditions:

- 1, model(diff):
 - L1.L2.1_rpc_maintenance L1.Age L1.2.sex L1.k_12centers L1.gdp
 - L1.interest_rate L1.debt L1.deficit L1.2bn.party_type L1.3.party_type
 - L1.win_margin L1.abstentionism L1.pop_share014 L1.pop_share65plus
 - L1.1_rpc_total_expenses
- 2, model(level):
 - D.L.1_rpc_maintenance D.L2.1_rpc_maintenance D.elec_t D.Age D.2.sex
 - D.k_12centers D.gdp D.interest_rate D.debt D.deficit
- 3, model(level):
 - _cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(10) = 19.5414
 Prob > chi2 = 0.0339

2-step moment functions, 3-step weighting matrix chi2(10) = 19.7771
 Prob > chi2 = 0.0314

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -5.5937 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = -0.0018 Prob > |z| = 0.9986

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .08618212

Step 2 f(b) = .4000726

Fitting reduced model 2:

Step 1 f(b) = .13448858

Group variable: **mun_id**

Number of obs = 1042

Time variable: **year**

Number of groups = 81

Moment conditions: linear = 41 Obs per group: min = 10
 nonlinear = 0 avg = 12.8642
 total = 41 max = 13

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_maintenance	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_maintenance						
L1.	.4823125	.0699721	6.89	0.000	.3451697	.6194553
L2.	.0500417	.064928	0.77	0.441	-.0772148	.1772983
elec_t	.0089042	.0613747	0.15	0.885	-.1113881	.1291965
l_rpc_total_expenses	.7564281	1.025856	0.74	0.461	-1.254212	2.767068
Age	.0062827	.0101389	0.62	0.535	-.0135892	.0261545
sex						
Male	-.0151751	.2357311	-0.06	0.949	-.4771997	.4468494
k_12centers	.0021717	.0039318	0.55	0.581	-.0055345	.009878
gdp	-1.19e-08	4.43e-08	-0.27	0.788	-9.86e-08	7.49e-08
interest_rate	-.01736	.0219945	-0.79	0.430	-.0604684	.0257484
debt	-.0032327	.0099445	-0.33	0.745	-.0227236	.0162582
deficit	-7.16e-08	1.32e-07	-0.54	0.588	-3.31e-07	1.88e-07
party_type						

National	.4992003	.6770231	0.74	0.461	-.8277405	1.826141
Provincial	-5.767438	9.028005	-0.64	0.523	-23.462	11.92713
win_margin	.0064865	.010247	0.63	0.527	-.0135971	.0265702
abstentionism	-.0152985	.0170677	-0.90	0.370	-.0487506	.0181536
pop_share014	.0165148	.0315007	0.52	0.600	-.0452255	.078255
pop_share65plus	-.0218245	.1014736	-0.22	0.830	-.220709	.1770601
_cons	-7.86402	13.87523	-0.57	0.571	-35.05898	19.33094

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.1_rpc_maintenance L2.L2.1_rpc_maintenance L1.Age L2.Age L1.2.sex
 L2.2.sex L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
 L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
 L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
 L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
 L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
 L1.1_rpc_total_expenses L2.1_rpc_total_expenses

2, model(level):

D.L.1_rpc_maintenance D.L2.1_rpc_maintenance D.elec_t D.Age D.2.sex
 D.k_12centers D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(25) = 32.4059
 Prob > chi2 = 0.1466

2-step moment functions, 3-step weighting matrix chi2(25) = 34.4107
 Prob > chi2 = 0.0994

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -5.8416 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = 0.0687 Prob > |z| = 0.9452

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .11235168

Step 2 f(b) = .46143012

Fitting reduced model 2:

Step 1 f(b) = .25484372

Group variable: **mun_id**

Number of obs = 1042

Time variable: **year**

Number of groups = 81

Moment conditions: linear = 54 Obs per group: min = 10
 nonlinear = 0 avg = 12.8642
 total = 54 max = 13

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_maintenance	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_maintenance						
L1.	.4644055	.0480469	9.67	0.000	.3702353	.5585756
L2.	.0355055	.052368	0.68	0.498	-.067134	.138145
elec_t	.0149571	.0586349	0.26	0.799	-.0999652	.1298794
l_rpc_total_expenses	.7169439	.6710031	1.07	0.285	-.598198	2.032086
Age	.0018676	.0072616	0.26	0.797	-.0123648	.0161001
sex						
Male	-.0462164	.1809555	-0.26	0.798	-.4008827	.3084498
k_12centers	.0024254	.0027501	0.88	0.378	-.0029647	.0078156
gdp	-8.87e-09	3.62e-08	-0.24	0.806	-7.99e-08	6.21e-08
interest_rate	-.0228119	.019181	-1.19	0.234	-.0604059	.0147822
debt	-.0042584	.0099853	-0.43	0.670	-.0238292	.0153124

deficit	-5.18e-08	1.25e-07	-0.41	0.678	-2.97e-07	1.93e-07
party_type						
National	.3356062	.499236	0.67	0.501	-.6428783	1.314091
Provincial	-8.054043	7.839239	-1.03	0.304	-23.41867	7.310583
win_margin	.0086155	.0093514	0.92	0.357	-.0097129	.026944
abstentionism	-.0223718	.0166423	-1.34	0.179	-.0549901	.0102466
pop_share014	.0169285	.0233083	0.73	0.468	-.028755	.062612
pop_share65plus	-.0333882	.0921959	-0.36	0.717	-.2140888	.1473124
_cons	-6.066462	8.319916	-0.73	0.466	-22.3732	10.24027

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L2.l_rpc_maintenance L2.L2.l_rpc_maintenance L3.L2.l_rpc_maintenance
  L1.Age L2.Age L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k 12centers
  L2.k 12centers L3.k 12centers L1.gdp L2.gdp L3.gdp L3.interest_rate L1.debt
  L2.debt L3.debt L1.deficit L2.deficit L3.deficit L1.2bn.party_type
  L2.2bn.party_type L3.2bn.party_type L1.3.party_type L2.3.party_type
  L3.3.party_type L1.win_margin L2.win_margin L3.win_margin L1.abstentionism
  L2.abstentionism L3.abstentionism L1.pop_share014 L2.pop_share014
  L3.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus
  L1.l_rpc_total_expenses L2.l_rpc_total_expenses L3.l_rpc_total_expenses
2, model(level):
  D.L.l_rpc_maintenance D.L2.l_rpc_maintenance D.elec_t D.Age D.2.sex
  D.k 12centers D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(38) = 37.3758
 Prob > chi2 = 0.4981

2-step moment functions, 3-step weighting matrix chi2(38) = 47.5330
 Prob > chi2 = 0.1382

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -5.5562 Prob > |z| = 0.0000
 H0: no autocorrelation of order 2: z = 0.1188 Prob > |z| = 0.9055

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .16273741
 Step 2 f(b) = .56543903

Fitting reduced model 2:

Step 1 f(b) = .39902666

Group variable: **mun_id** Number of obs = 1042
 Time variable: **year** Number of groups = 81

Moment conditions: linear = 65 Obs per group: min = 10
 nonlinear = 0 avg = 12.8642
 total = 65 max = 13

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_maintenance	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_maintenance						
L1.	.468991	.0570882	8.22	0.000	.3571001	.5808818
L2.	.0339563	.0578688	0.59	0.557	-.0794644	.147377
elec_t	-.0026633	.0421248	-0.06	0.950	-.0852264	.0798998
l_rpc_total_expenses	.4194923	.6021896	0.70	0.486	-.7607776	1.599762
Age	.0069353	.0061529	1.13	0.260	-.0051242	.0189948
sex						

Male	-.1550954	.1380378	-1.12	0.261	-.4256445	.1154538
k_12centers	.0013137	.0026662	0.49	0.622	-.0039118	.0065393
gdp	1.04e-08	3.26e-08	0.32	0.750	-5.36e-08	7.43e-08
interest_rate	-.0284271	.0179627	-1.58	0.114	-.0636332	.0067791
debt	-.007833	.0072608	-1.08	0.281	-.0220638	.0063978
deficit	-5.40e-09	9.21e-08	-0.06	0.953	-1.86e-07	1.75e-07
party_type						
National	.2312621	.3157056	0.73	0.464	-.3875095	.8500337
Provincial	-7.691315	6.348876	-1.21	0.226	-20.13488	4.752252
win_margin	.0086015	.0064298	1.34	0.181	-.0040007	.0212037
abstentionism	-.0122241	.0112826	-1.08	0.279	-.0343377	.0098895
pop_share014	.0182488	.0271692	0.67	0.502	-.0350018	.0714994
pop_share65plus	-.0276588	.0617921	-0.45	0.654	-.1487691	.0934515
_cons	-2.47224	7.628797	-0.32	0.746	-17.42441	12.47993

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.1_rpc_maintenance L2.L2.1_rpc_maintenance L3.L2.1_rpc_maintenance
 L4.L2.1_rpc_maintenance L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex
 L3.2.sex L4.2.sex L1.k_12centers L2.k_12centers L3.k_12centers
 L4.k_12centers L1.gdp L2.gdp L3.gdp L4.gdp L1.debt L3.debt L4.debt
 L1.deficit L2.deficit L3.deficit L4.deficit L1.2bn.party_type
 L2.2bn.party_type L3.2bn.party_type L4.2bn.party_type L1.3.party_type
 L2.3.party_type L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin
 L3.win_margin L4.win_margin L1.abstentionism L2.abstentionism
 L3.abstentionism L4.abstentionism L1.pop_share014 L2.pop_share014
 L3.pop_share014 L4.pop_share014 L1.pop_share65plus L2.pop_share65plus
 L3.pop_share65plus L4.pop_share65plus L1.1_rpc_total_expenses
 L2.1_rpc_total_expenses L3.1_rpc_total_expenses L4.1_rpc_total_expenses

2, model(level):

D.L.1_rpc_maintenance D.L2.1_rpc_maintenance D.Age D.2.sex D.k_12centers
 D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(49) = 45.8006
 Prob > chi2 = 0.6036

2-step moment functions, 3-step weighting matrix chi2(49) = 60.2507
 Prob > chi2 = 0.1301

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -5.5108 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = 0.2583 Prob > |z| = 0.7962

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .17903603

Step 2 f(b) = .0735543

Fitting reduced model 2:

Step 1 f(b) = 5.703e-23

Group variable: mun_id

Number of obs = 1121

Time variable: year

Number of groups = 81

Moment conditions: linear = 25 Obs per group: min = 11
 nonlinear = 0 avg = 13.83951
 total = 25 max = 14

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_cap_mef	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_mef						
L1.	.0871942	.0436065	2.00	0.046	.0017271	.1726613
elec_t	-.2495553	.1346561	-1.85	0.064	-.5134764	.0143658
l_rpc_total_expenses	.1524039	.9179358	0.17	0.868	-1.646717	1.951525
Age	.013119	.0166445	0.79	0.431	-.0195038	.0457417
sex						
Male	-.0727086	.4164306	-0.17	0.861	-.8888975	.7434803
k_12centers	-.0030138	.0031299	-0.96	0.336	-.0091482	.0031206
gdp	6.33e-08	5.07e-08	1.25	0.212	-3.61e-08	1.63e-07
interest_rate	.0213558	.0356178	0.60	0.549	-.0484538	.0911655
debt	-.0188928	.0193372	-0.98	0.329	-.056793	.0190074
deficit	-1.03e-07	2.72e-07	-0.38	0.705	-6.36e-07	4.30e-07
party_type						
National	.0102298	1.414107	0.01	0.994	-2.761368	2.781828
Provincial	13.13474	18.09626	0.73	0.468	-22.33327	48.60276
win_margin	-.0181374	.0198615	-0.91	0.361	-.0570653	.0207905
abstentionism	.0824553	.0390225	2.11	0.035	.0059725	.158938
pop_share014	.1543494	.0750424	2.06	0.040	.007269	.3014299
pop_share65plus	.313871	.3156222	0.99	0.320	-.304737	.9324791
_cons	-7.608749	12.08755	-0.63	0.529	-31.29991	16.08241

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
    L1.L1_rpc_cap_mef L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
    L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
    L1.abstentionism L1.pop_share014 L1.pop_share65plus L1.l_rpc_total_expenses
2, model(level):
    D.L1_rpc_cap_mef D.elec_t D.Age D.2.sex D.k_12centers D.gdp
    D.interest_rate D.debt D.deficit
3, model(level):
    _cons

```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(10)    =    5.9579
                                                        Prob > chi2 =    0.8188

```

```

2-step moment functions, 3-step weighting matrix      chi2(10)    =    8.7611
                                                        Prob > chi2 =    0.5549

```

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -6.6358 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = -0.5895 Prob > |z| = 0.5555

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .70518048

Step 2 f(b) = .3294544

Fitting reduced model 2:

Step 1 f(b) = .19793231

Group variable: **mun_id**

Number of obs = 1121

Time variable: **year**

Number of groups = 81

```

Moment conditions:    linear =    40    Obs per group:    min =    11
                    nonlinear =    0    avg =   13.83951
                    total =    40    max =    14

```

(Std. err. adjusted for 81 clusters in `mun_id`)

<code>l_rpc_cap_mef</code>	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
<code>l_rpc_cap_mef</code> L1.	.0557015	.0457451	1.22	0.223	-.0339573	.1453603
elec_t	-.1408066	.1153326	-1.22	0.222	-.3668545	.0852412
<code>l_rpc_total_expenses</code>	.4433126	.4524461	0.98	0.327	-.4434655	1.330091
Age	.009211	.0148167	0.62	0.534	-.0198292	.0382513
sex						
Male	-.002065	.358314	-0.01	0.995	-.7043476	.7002175
k_12centers	-.0053621	.0030317	-1.77	0.077	-.0113041	.0005799
gdp	8.58e-08	2.82e-08	3.04	0.002	3.04e-08	1.41e-07
interest_rate	-.0362642	.0338189	-1.07	0.284	-.1025481	.0300196
debt	-.0226243	.0100944	-2.24	0.025	-.042409	-.0028396
deficit	-1.25e-07	1.96e-07	-0.64	0.524	-5.10e-07	2.60e-07
party_type						
National	-.4331543	1.091743	-0.40	0.692	-2.572931	1.706622
Provincial	25.20105	18.72049	1.35	0.178	-11.49045	61.89254
win_margin	.0215169	.0334051	0.64	0.519	-.0439558	.0869896
abstentionism	.0371213	.0376934	0.98	0.325	-.0367563	.110999
pop_share014	.1813126	.0608384	2.98	0.003	.0620715	.3005536
pop_share65plus	-.0350094	.1771634	-0.20	0.843	-.3822432	.3122244
_cons	-6.618913	9.435628	-0.70	0.483	-25.1124	11.87458

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L1.rpc_cap_mef L2.L1.rpc_cap_mef L1.Age L2.Age L1.2.sex L2.2.sex
  L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
  L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
  L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
  L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
  L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
  L1.l_rpc_total_expenses L2.l_rpc_total_expenses
2, model(level):
  D.L1.rpc_cap_mef D.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(25)      =    26.6858
                                                         Prob > chi2    =     0.3718

```

```

2-step moment functions, 3-step weighting matrix      chi2(25)      =    45.6181
                                                         Prob > chi2    =     0.0071

```

Arellano-Bond test for autocorrelation of the first-differenced residuals

```

H0: no autocorrelation of order 1:      z =    -6.9826    Prob > |z|    =    0.0000
H0: no autocorrelation of order 2:      z =    -0.7630    Prob > |z|    =    0.4455

```

Generalized method of moments estimation

Fitting full model:

```

Step 1      f(b) =    1.208783
Step 2      f(b) =    .5986963

```

Fitting reduced model 2:

```

Step 1      f(b) =    .49226324

```

Group variable: `mun_id`

Number of obs = 1121

Time variable: `year`

Number of groups = 81

Fitting reduced model 2:

Step 1 f(b) = .64251527

Group variable: **mun_id**

Number of obs = 1121

Time variable: **year**

Number of groups = 81

Moment conditions:

linear =	66
nonlinear =	0
total =	66

Obs per group:

min =	11
avg =	13.83951
max =	14

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_cap_mef	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_mef L1.	.0821114	.0470465	1.75	0.081	-.010098	.1743207
elec_t	-.205388	.1033278	-1.99	0.047	-.4079069	-.0028692
l_rpc_total_expenses	.2708198	.7188601	0.38	0.706	-1.13812	1.67976
Age	.0047978	.0143725	0.33	0.739	-.0233718	.0329674
sex						
Male	-.1952595	.3748887	-0.52	0.602	-.9300278	.5395088
k_12centers	-.0055223	.0028929	-1.91	0.056	-.0111923	.0001477
gdp	9.85e-08	3.81e-08	2.59	0.010	2.38e-08	1.73e-07
interest_rate	-.0892008	.0388901	-2.29	0.022	-.165424	-.0129775
debt	-.0272119	.0107323	-2.54	0.011	-.0482468	-.0061769
deficit	1.29e-08	1.78e-07	0.07	0.942	-3.36e-07	3.62e-07
party_type						
National	.143449	1.273646	0.11	0.910	-2.35285	2.639748
Provincial	13.81182	13.92844	0.99	0.321	-13.48743	41.11107
win_margin	-.0050267	.0178529	-0.28	0.778	-.0400177	.0299643
abstentionism	.0487519	.0269605	1.81	0.071	-.0040897	.1015935
pop_share014	.1682725	.0552448	3.05	0.002	.0599948	.2765503
pop_share65plus	-.0423589	.1721807	-0.25	0.806	-.3798268	.295109
_cons	-4.118117	11.70336	-0.35	0.725	-27.05628	18.82005

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L.1_rpc_cap_mef L2.L.1_rpc_cap_mef L3.L.1_rpc_cap_mef L4.L.1_rpc_cap_mef
 L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex L4.2.sex
 L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp L2.gdp
 L3.gdp L4.gdp L4.interest_rate L2.debt L3.debt L4.debt L1.deficit
 L2.deficit L3.deficit L4.deficit L1.2bn.party_type L2.2bn.party_type
 L3.2bn.party_type L4.2bn.party_type L1.3.party_type L2.3.party_type
 L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin L3.win_margin
 L4.win_margin L1.abstentionism L2.abstentionism L3.abstentionism
 L4.abstentionism L1.pop_share014 L2.pop_share014 L3.pop_share014
 L4.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus
 L4.pop_share65plus L1.l_rpc_total_expenses L2.l_rpc_total_expenses
 L3.l_rpc_total_expenses L4.l_rpc_total_expenses

2, model(level):

D.L.1_rpc_cap_mef D.elec_t D.Age D.2.sex D.k_12centers D.gdp
 D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(51) = 57.6687
 Prob > chi2 = 0.2423

2-step moment functions, 3-step weighting matrix chi2(51) = 68.9491
 Prob > chi2 = 0.0477

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-6.7237** Prob > |z| = **0.0000**
H0: no autocorrelation of order 2: z = **-0.6880** Prob > |z| = **0.4915**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.30556771**

Step 2 f(b) = **.19791557**

Fitting reduced model 2:

Step 1 f(b) = **3.594e-19**

Group variable: **mun_id** Number of obs = **1037**

Time variable: **year** Number of groups = **81**

Moment conditions: linear = **26** Obs per group: min = **9**
nonlinear = **0** avg = **12.80247**
total = **26** max = **13**

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_cap_mef	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_mef						
L1.	.0552147	.0626906	0.88	0.378	-.0676567	.178086
L2.	.0094916	.0579956	0.16	0.870	-.1041777	.1231608
elec_t	-.0464325	.1297405	-0.36	0.720	-.3007193	.2078542
l_rpc_total_expenses	-1.118645	.8795705	-1.27	0.203	-2.842572	.6052812
Age	.0080424	.0189299	0.42	0.671	-.0290594	.0451442
sex						
Male	-.3213536	.4565029	-0.70	0.481	-1.216083	.5733756
k_12centers	-.0045453	.0040177	-1.13	0.258	-.0124199	.0033293
gdp	2.37e-08	5.88e-08	0.40	0.686	-9.16e-08	1.39e-07
interest_rate	.0763024	.0473227	1.61	0.107	-.0164484	.1690532
debt	.0005453	.0202718	0.03	0.979	-.0391867	.0402773
deficit	-2.18e-07	1.73e-07	-1.26	0.208	-5.58e-07	1.21e-07
party_type						
National	-1.242032	1.942381	-0.64	0.523	-5.049029	2.564965
Provincial	12.19711	19.43391	0.63	0.530	-25.89266	50.28689
win margin	.0273478	.0190223	1.44	0.151	-.0099353	.0646309
abstentionism	.0127587	.0349248	0.37	0.715	-.0556927	.08121
pop_share014	.1435296	.0831958	1.73	0.084	-.0195312	.3065903
pop_share65plus	.3253788	.2058504	1.58	0.114	-.0780806	.7288382
_cons	17.38737	14.18157	1.23	0.220	-10.40798	45.18273

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.l_rpc_cap_mef L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
L1.abstentionism L1.pop_share014 L1.pop_share65plus L1.l_rpc_total_expenses

2, model(level):

D.L.l_rpc_cap_mef D.L2.l_rpc_cap_mef D.elec_t D.Age D.2.sex D.k_12centers
D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(10) = **16.0312**
Prob > chi2 = **0.0987**

2-step moment functions, 3-step weighting matrix chi2(10) = **17.6905**
Prob > chi2 = **0.0604**

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-6.2217** Prob > |z| = **0.0000**
H0: no autocorrelation of order 2: z = **-1.0101** Prob > |z| = **0.3124**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.80424448**

Step 2 f(b) = **.41480427**

Fitting reduced model 2:

Step 1 f(b) = **.23926136**

Group variable: **mun_id**

Number of obs = **1037**

Time variable: **year**

Number of groups = **81**

Moment conditions: linear = **41**
nonlinear = **0**
total = **41**

Obs per group: min = **9**
avg = **12.80247**
max = **13**

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_cap_mef	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_mef						
L1.	.1190315	.0699914	1.70	0.089	-.0181491	.256212
L2.	.0825004	.0677454	1.22	0.223	-.0502782	.2152789
elec_t	-.1574872	.1200588	-1.31	0.190	-.3927981	.0778237
l_rpc_total_expenses	-.2287268	.662255	-0.35	0.730	-1.526723	1.069269
Age	.007856	.0177019	0.44	0.657	-.0268391	.0425511
sex						
Male	.0849887	.4087291	0.21	0.835	-.7161056	.886083
k_12centers	-.0072519	.0028811	-2.52	0.012	-.0128988	-.0016051
gdp	1.25e-07	4.37e-08	2.86	0.004	3.94e-08	2.11e-07
interest_rate	-.0459552	.0384336	-1.20	0.232	-.1212836	.0293733
debt	-.0276812	.0145451	-1.90	0.057	-.0561891	.0008268
deficit	-1.52e-07	1.91e-07	-0.80	0.425	-5.26e-07	2.22e-07
party_type						
National	-1.64355	2.007424	-0.82	0.413	-5.578029	2.290929
Provincial	19.9792	19.53447	1.02	0.306	-18.30766	58.26605
win_margin	.0165507	.0223899	0.74	0.460	-.0273327	.060434
abstentionism	.035135	.035508	0.99	0.322	-.0344594	.1047293
pop_share014	.2039361	.0943277	2.16	0.031	.0190573	.388815
pop_share65plus	-.044553	.272446	-0.16	0.870	-.5785373	.4894314
_cons	2.747235	9.759392	0.28	0.778	-16.38082	21.87529

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.l_rpc_cap_mef L2.L2.l_rpc_cap_mef L1.Age L2.Age L1.2.sex L2.2.sex
L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
L1.l_rpc_total_expenses L2.l_rpc_total_expenses

2, model(level):

D.L.l_rpc_cap_mef D.L2.l_rpc_cap_mef D.elec_t D.Age D.2.sex D.k_12centers
D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix

chi2(25) = **33.5991**

Prob > chi2 = **0.1168**

2-step moment functions, 3-step weighting matrix chi2(25) = **42.9081**
 Prob > chi2 = **0.0143**

Arellano-Bond test for autocorrelation of the first-differenced residuals
 H0: no autocorrelation of order 1: z = **-6.4528** Prob > |z| = **0.0000**
 H0: no autocorrelation of order 2: z = **-2.1207** Prob > |z| = **0.0339**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.99389533**
 Step 2 f(b) = **.59082712**

Fitting reduced model 2:

Step 1 f(b) = **.40937318**

Group variable: **mun_id** Number of obs = **1037**
 Time variable: **year** Number of groups = **81**

Moment conditions: linear = **56** Obs per group: min = **9**
 nonlinear = **0** avg = **12.80247**
 total = **56** max = **13**

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_cap_mef	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_mef						
L1.	.128544	.0512869	2.51	0.012	.0280236	.2290645
L2.	.0911423	.0454827	2.00	0.045	.0019979	.1802867
elec_t	-.1443911	.1013427	-1.42	0.154	-.3430192	.054237
l_rpc_total_expenses	.1155119	.3597339	0.32	0.748	-.5895536	.8205774
Age	.0004097	.0185709	0.02	0.982	-.0359885	.0368079
sex						
Male	.1012572	.2686989	0.38	0.706	-.425383	.6278975
k_12centers	-.0057886	.0024701	-2.34	0.019	-.01063	-.0009472
gdp	1.08e-07	3.10e-08	3.48	0.000	4.72e-08	1.69e-07
interest_rate	-.0521595	.0366703	-1.42	0.155	-.124032	.019713
debt	-.0277366	.0143677	-1.93	0.054	-.0558967	.0004235
deficit	-8.79e-08	1.82e-07	-0.48	0.630	-4.45e-07	2.69e-07
party_type						
National	-1.368542	1.5561	-0.88	0.379	-4.418442	1.681358
Provincial	10.36816	14.07525	0.74	0.461	-17.21882	37.95513
win_margin	.01738	.0179776	0.97	0.334	-.0178553	.0526154
abstentionism	.0232142	.0281668	0.82	0.410	-.0319918	.0784202
pop_share014	.165884	.0570405	2.91	0.004	.0540867	.2776814
pop_share65plus	-.1116512	.1826169	-0.61	0.541	-.4695739	.2462714
_cons	.131872	5.794456	0.02	0.982	-11.22505	11.4888

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.l_rpc_cap_mef L2.L2.l_rpc_cap_mef L3.L2.l_rpc_cap_mef L1.Age L2.Age
 L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
 L3.k_12centers L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate
 L3.interest_rate L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit
 L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L1.3.party_type
 L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
 L1.abstentionism L2.abstentionism L3.abstentionism L1.pop_share014
 L2.pop_share014 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus
 L3.pop_share65plus L1.l_rpc_total_expenses L2.l_rpc_total_expenses
 L3.l_rpc_total_expenses

2, model(level):

D.L.l_rpc_cap_mef D.L2.l_rpc_cap_mef D.elec_t D.Age D.2.sex D.k_12centers
 D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix $\chi^2(40) = 47.8570$
Prob > $\chi^2 = 0.1840$

2-step moment functions, 3-step weighting matrix $\chi^2(40) = 57.4239$
Prob > $\chi^2 = 0.0365$

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: $z = -6.4621$ Prob > $|z| = 0.0000$

H0: no autocorrelation of order 2: $z = -2.2033$ Prob > $|z| = 0.0276$

Generalized method of moments estimation

Fitting full model:

Step 1 $f(b) = 1.1920156$

Step 2 $f(b) = .69198554$

Fitting reduced model 2:

Step 1 $f(b) = .44427039$

Group variable: **mun_id**

Number of obs = 1037

Time variable: **year**

Number of groups = 81

Moment conditions: linear = 67 Obs per group: min = 9
 nonlinear = 0 avg = 12.80247
 total = 67 max = 13

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_cap_mef	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_mef						
L1.	.1406395	.0463305	3.04	0.002	.0498334	.2314457
L2.	.0873696	.0452958	1.93	0.054	-.0014087	.1761478
elec_t	-.1981434	.0931995	-2.13	0.034	-.380811	-.0154757
l_rpc_total_expenses	.2739521	.4499518	0.61	0.543	-.6079371	1.155841
Age	.0058664	.0142974	0.41	0.682	-.0221561	.0338888
sex						
Male	-.009857	.2323049	-0.04	0.966	-.4651661	.4454522
k_12centers	-.0055407	.0024881	-2.23	0.026	-.0104173	-.0006642
gdp	1.11e-07	3.22e-08	3.45	0.001	4.81e-08	1.74e-07
interest_rate	-.0846732	.0345525	-2.45	0.014	-.1523948	-.0169515
debt	-.0321681	.0128901	-2.50	0.013	-.0574322	-.006904
deficit	5.33e-08	1.59e-07	0.34	0.737	-2.58e-07	3.65e-07
party_type						
National	-.4692352	1.356484	-0.35	0.729	-3.127896	2.189425
Provincial	5.206353	9.68309	0.54	0.591	-13.77216	24.18486
win_margin	.0085599	.0166	0.52	0.606	-.0239755	.0410954
abstentionism	.0384575	.026045	1.48	0.140	-.0125898	.0895049
pop_share014	.1481478	.0502136	2.95	0.003	.0497309	.2465646
pop_share65plus	-.1389422	.1572113	-0.88	0.377	-.4470706	.1691863
_cons	-3.125455	6.857681	-0.46	0.649	-16.56626	10.31535

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.1_rpc_cap_mef L2.L2.1_rpc_cap_mef L3.L2.1_rpc_cap_mef
L4.L2.1_rpc_cap_mef L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex
L4.2.sex L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp
L2.gdp L3.gdp L4.gdp L2.interest_rate L2.debt L3.debt L4.debt L1.deficit
L2.deficit L3.deficit L4.deficit L1.2bn.party_type L2.2bn.party_type
L3.2bn.party_type L4.2bn.party_type L1.3.party_type L2.3.party_type
L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin L3.win_margin
L4.win_margin L1.abstentionism L2.abstentionism L3.abstentionism
L4.abstentionism L1.pop_share014 L2.pop_share014 L3.pop_share014
L4.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus


```

L4.pop_share65plus L1.l_rpc_total_expenses L2.l_rpc_total_expenses
L3.l_rpc_total_expenses L4.l_rpc_total_expenses
2, model(level):
  D.L.l_rpc_cap_mef D.L2.l_rpc_cap_mef D.elec_t D.Age D.2.sex D.k_12centers
  D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(51) = **56.0508**
Prob > chi2 = **0.2911**

2-step moment functions, 3-step weighting matrix chi2(51) = **66.4151**
Prob > chi2 = **0.0722**

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = **-6.5859** Prob > |z| = **0.0000**
H0: no autocorrelation of order 2: z = **-2.0217** Prob > |z| = **0.0432**

Generalized method of moments estimation

Fitting full model:
Step 1 f(b) = **.26237602**
Step 2 f(b) = **.06388954**

Fitting reduced model 2:
Step 1 f(b) = **1.239e-23**

Group variable: **mun_id** Number of obs = **1050**
Time variable: **year** Number of groups = **81**

Moment conditions: linear = **25** Obs per group: min = **5**
 nonlinear = **0** avg = **12.96296**
 total = **25** max = **14**

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_cap_cai	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_cai						
L1.	.2988643	.0743472	4.02	0.000	.1531464	.4445821
elec_t	.1197543	.1073045	1.12	0.264	-.0905586	.3300672
l_rpc_total_expenses	2.736441	1.058772	2.58	0.010	.6612859	4.811597
Age	.0138554	.0206157	0.67	0.502	-.0265507	.0542616
sex						
Male	1.375521	.4464864	3.08	0.002	.5004235	2.250618
k_12centers	.0067506	.005459	1.24	0.216	-.0039489	.0174501
gdp	-6.62e-08	6.00e-08	-1.10	0.270	-1.84e-07	5.15e-08
interest_rate	.0794141	.0507263	1.57	0.117	-.0200075	.1788358
debt	.019429	.0191325	1.02	0.310	-.01807	.0569279
deficit	-2.50e-07	2.71e-07	-0.93	0.355	-7.81e-07	2.80e-07
party_type						
National	.9033367	1.044074	0.87	0.387	-1.14301	2.949683
Provincial	-7.602828	17.11403	-0.44	0.657	-41.14571	25.94005
win_margin	-.0074171	.0295502	-0.25	0.802	-.0653345	.0505003
abstentionism	.0019199	.0326161	0.06	0.953	-.0620066	.0658463
pop_share014	.0453283	.0673618	0.67	0.501	-.0866985	.177355
pop_share65plus	.0498842	.3654046	0.14	0.891	-.6662957	.7660641
_cons	-40.14353	15.85855	-2.53	0.011	-71.22572	-9.061334

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L.l_rpc_cap_cai L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
  L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
  L1.abstentionism L1.pop_share014 L1.pop_share65plus L1.l_rpc_total_expenses

```

```

2, model(level):
  D.L1_rpc_cap_cai D.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(10)    =    5.1751
                                                         Prob > chi2 =    0.8792

```

```

2-step moment functions, 3-step weighting matrix      chi2(10)    =    6.1480
                                                         Prob > chi2 =    0.8027

```

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = -5.2139 Prob > |z| = 0.0000
H0: no autocorrelation of order 2: z = 0.4273 Prob > |z| = 0.6691

Generalized method of moments estimation

```

Fitting full model:
Step 1          f(b) = .52878133
Step 2          f(b) = .22323797

```

```

Fitting reduced model 2:
Step 1          f(b) = .18485838

```

```

Group variable: mun_id          Number of obs      =    1050
Time variable: year            Number of groups   =     81

```

```

Moment conditions:      linear =    40      Obs per group:   min =     5
                       nonlinear =    0      avg =   12.96296
                       total =    40      max =    14

```

(Std. err. adjusted for 81 clusters in mun_id)

l_rpc_cap_cai	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_cai L1.	.336479	.0721069	4.67	0.000	.195152	.477806
elec_t	.0358226	.1110847	0.32	0.747	-.1818993	.2535445
l_rpc_total_expenses	2.507656	.9450226	2.65	0.008	.6554454	4.359866
Age	.0108558	.0181855	0.60	0.551	-.0247871	.0464988
sex						
Male	1.46298	.4747532	3.08	0.002	.5324805	2.393479
k_12centers	.0053802	.0046453	1.16	0.247	-.0037245	.0144849
gdp	-4.94e-08	4.96e-08	-1.00	0.319	-1.47e-07	4.78e-08
interest_rate	.060353	.0373708	1.61	0.106	-.0128924	.1335983
debt	.0079604	.0127685	0.62	0.533	-.0170655	.0329863
deficit	-1.08e-07	1.59e-07	-0.68	0.495	-4.19e-07	2.02e-07
party_type						
National	.5053917	.9499408	0.53	0.595	-1.356458	2.367241
Provincial	-.7739688	12.50222	-0.06	0.951	-25.27788	23.72994
win_margin	-.002062	.0211287	-0.10	0.922	-.0434734	.0393494
abstentionism	-.0151817	.0282198	-0.54	0.591	-.0704914	.040128
pop_share014	.0415043	.0464358	0.89	0.371	-.0495082	.1325168
pop_share65plus	-.0042884	.1613071	-0.03	0.979	-.3204445	.3118678
_cons	-34.44649	12.80083	-2.69	0.007	-59.53566	-9.357316

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L1_rpc_cap_cai L2.L1_rpc_cap_cai L1.Age L2.Age L1.2.sex L2.2.sex
  L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
  L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
  L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
  L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014

```

```

L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
L1.l_rpc_total_expenses L2.l_rpc_total_expenses
2, model(level):
  D.L1.l_rpc_cap_cai D.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(25)    =    18.0823
                                                         Prob > chi2 =    0.8389

2-step moment functions, 3-step weighting matrix      chi2(25)    =    20.0726
                                                         Prob > chi2 =    0.7430

```

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = **-4.9624** Prob > |z| = **0.0000**
H0: no autocorrelation of order 2: z = **0.7013** Prob > |z| = **0.4831**

Generalized method of moments estimation

Fitting full model:
Step 1 f(b) = **.74056635**
Step 2 f(b) = **.44665569**

Fitting reduced model 2:
Step 1 f(b) = **.30259436**

```

Group variable: mun_id      Number of obs      =    1050
Time variable: year        Number of groups   =     81

```

```

Moment conditions:      linear =    55      Obs per group:   min =     5
                      nonlinear =    0          avg =   12.96296
                      total =    55          max =    14

```

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_cap_cai	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_cai						
L1.	.3474435	.0710192	4.89	0.000	.2082485	.4866385
elec_t	.0554445	.1068422	0.52	0.604	-.1539623	.2648514
l_rpc_total_expenses	1.500965	.7167748	2.09	0.036	.0961119	2.905817
Age	.0099943	.0144956	0.69	0.491	-.0184167	.0384052
sex						
Male	.8934234	.5204857	1.72	0.086	-.1267099	1.913557
k_12centers	.0032263	.0036485	0.88	0.377	-.0039246	.0103771
gdp	1.31e-08	4.18e-08	0.31	0.754	-6.89e-08	9.51e-08
interest_rate	.0467713	.035806	1.31	0.191	-.0234072	.1169498
debt	.0079907	.0117491	0.68	0.496	-.0150371	.0310185
deficit	-1.45e-07	1.46e-07	-0.99	0.320	-4.32e-07	1.41e-07
party_type						
National	-.287156	.7308059	-0.39	0.694	-1.719509	1.145197
Provincial	3.794314	10.55023	0.36	0.719	-16.88376	24.47238
win margin	-.0098148	.0210182	-0.47	0.641	-.0510097	.03138
abstentionism	-.0144911	.0254036	-0.57	0.568	-.0642813	.035299
pop_share014	.1149179	.0457683	2.51	0.012	.0252137	.2046222
pop_share65plus	-.0789187	.1352394	-0.58	0.560	-.3439831	.1861457
_cons	-20.74794	9.873742	-2.10	0.036	-40.10012	-1.395761

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L1.l_rpc_cap_cai L2.L1.l_rpc_cap_cai L3.L1.l_rpc_cap_cai L1.Age L2.Age
  L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
  L3.k_12centers L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate

```

```

L3.interest_rate L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit
L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L1.3.party_type
L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
L1.abstentionism L2.abstentionism L3.abstentionism L1.pop_share014
L2.pop_share014 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus
L3.pop_share65plus L1.l_rpc_total_expenses L2.l_rpc_total_expenses
L3.l_rpc_total_expenses
2, model(level):
  D.L.l_rpc_cap_cai D.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(40)    =    36.1791
                                                         Prob > chi2 =    0.6430

2-step moment functions, 3-step weighting matrix      chi2(40)    =    40.3293
                                                         Prob > chi2 =    0.4557

```

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = -5.1001 Prob > |z| = 0.0000
H0: no autocorrelation of order 2: z = 0.9800 Prob > |z| = 0.3271

Generalized method of moments estimation

```

Fitting full model:
Step 1          f(b) =    .80856215
Step 2          f(b) =    .68236733

Fitting reduced model 2:
Step 1          f(b) =    .49592548

```

```

Group variable:  mun_id                      Number of obs      =    1050
Time variable:  year                          Number of groups   =     81

Moment conditions:  linear =    67           Obs per group:  min =     5
                   nonlinear =    0           avg =   12.96296
                   total =    67           max =    14

```

(Std. err. adjusted for 81 clusters in mun_id)

l_rpc_cap_cai	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_cai						
L1.	.3281528	.0738494	4.44	0.000	.1834106	.4728949
elec_t	-.0242532	.1085867	-0.22	0.823	-.2370792	.1885728
l_rpc_total_expenses	1.419472	.6849217	2.07	0.038	.07705	2.761894
Age	.0008181	.0125251	0.07	0.948	-.0237306	.0253669
sex						
Male	.5742175	.4725066	1.22	0.224	-.3518785	1.500313
k_12centers	.0016552	.0036476	0.45	0.650	-.005494	.0088044
gdp	1.99e-08	4.01e-08	0.50	0.620	-5.87e-08	9.84e-08
interest_rate	.0357397	.0320273	1.12	0.264	-.0270326	.098512
debt	.0079867	.0127321	0.63	0.530	-.0169677	.0329411
deficit	-1.34e-07	1.73e-07	-0.77	0.439	-4.73e-07	2.05e-07
party_type						
National	-.1546927	.4842132	-0.32	0.749	-1.103733	.7943478
Provincial	2.721122	7.36263	0.37	0.712	-11.70937	17.15161
win_margin	-.000352	.021982	-0.02	0.987	-.0434359	.042732
abstentionism	-.0057576	.0238227	-0.24	0.809	-.0524492	.040934
pop_share014	.1014886	.0430833	2.36	0.018	.0170468	.1859304
pop_share65plus	-.1207237	.1315335	-0.92	0.359	-.3785247	.1370772
_cons	-18.43582	9.692404	-1.90	0.057	-37.43258	.560943

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L1_rpc_cap_cai L2.L1_rpc_cap_cai L3.L1_rpc_cap_cai L4.L1_rpc_cap_cai
  L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex L4.2.sex
  L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp L2.gdp
  L3.gdp L4.gdp L2.interest_rate L1.debt L2.debt L3.debt L4.debt L1.deficit
  L2.deficit L3.deficit L4.deficit L1.2bn.party_type L2.2bn.party_type
  L3.2bn.party_type L4.2bn.party_type L1.3.party_type L2.3.party_type
  L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin L3.win_margin
  L4.win_margin L1.abstentionism L2.abstentionism L3.abstentionism
  L4.abstentionism L1.pop_share014 L2.pop_share014 L3.pop_share014
  L4.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus
  L4.pop_share65plus L1.l_rpc_total_expenses L2.l_rpc_total_expenses
  L3.l_rpc_total_expenses L4.l_rpc_total_expenses
2, model(level):
  D.L1_rpc_cap_cai D.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

```
2-step moment functions, 2-step weighting matrix      chi2(52)      =    55.2718
                                                         Prob > chi2    =    0.3522
```

```
2-step moment functions, 3-step weighting matrix      chi2(52)      =    63.7620
                                                         Prob > chi2    =    0.1270
```

Arellano-Bond test for autocorrelation of the first-differenced residuals

```
H0: no autocorrelation of order 1:      z =    -5.0274      Prob > |z| =    0.0000
H0: no autocorrelation of order 2:      z =     0.9282      Prob > |z| =    0.3533
```

Generalized method of moments estimation

Fitting full model:

```
Step 1          f(b) = .21733296
Step 2          f(b) = .06606814
```

Fitting reduced model 2:

```
Step 1          f(b) = 1.045e-17
```

```
Group variable: mun_id      Number of obs      =    956
Time variable:  year      Number of groups     =     81
```

```
Moment conditions:      linear =    26      Obs per group:      min =     4
                        nonlinear =    0      avg =   11.80247
                        total =    26      max =    13
```

(Std. err. adjusted for 81 clusters in mun_id)

l_rpc_cap_cai	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_cai						
L1.	.3237185	.0648621	4.99	0.000	.1965912	.4508459
L2.	.079529	.0575411	1.38	0.167	-.0332494	.1923075
elec_t	.2589467	.100038	2.59	0.010	.0628759	.4550175
l_rpc_total_expenses	1.2676	.5380488	2.36	0.018	.2130439	2.322156
Age	.0147989	.0192371	0.77	0.442	-.022905	.0525029
sex						
Male	.9526513	.4491937	2.12	0.034	.0722479	1.833055
k_12centers	-.0020017	.0042242	-0.47	0.636	-.0102811	.0062776
gdp	-5.02e-08	4.58e-08	-1.10	0.273	-1.40e-07	3.95e-08
interest_rate	.0756833	.0485948	1.56	0.119	-.0195608	.1709275
debt	.0336892	.0133798	2.52	0.012	.0074652	.0599132
deficit	-2.98e-07	1.52e-07	-1.96	0.049	-5.95e-07	-7.26e-10
party_type						
National	-.5143295	.8214051	-0.63	0.531	-2.124254	1.095595

Provincial	4.431082	15.25907	0.29	0.772	-25.47615	34.33831
win_margin	-.040839	.0266605	-1.53	0.126	-.0930925	.0114146
abstentionism	-.0407502	.0228666	-1.78	0.075	-.0855679	.0040676
pop_share014	.1042953	.0534624	1.95	0.051	-.0004892	.2090798
pop_share65plus	-.1730694	.2062699	-0.84	0.401	-.577351	.2312122
_cons	-14.30844	8.185949	-1.75	0.080	-30.35261	1.735723

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L2.l_rpc_cap_cai L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
  L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
  L1.abstentionism L1.pop_share014 L1.pop_share65plus L1.l_rpc_total_expenses
2, model(level):
  D.L1.l_rpc_cap_cai D.L2.l_rpc_cap_cai D.elec_t D.Age D.2.sex D.k_12centers
  D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(10) = 5.3515
 Prob > chi2 = 0.8665

2-step moment functions, 3-step weighting matrix chi2(10) = 6.3338
 Prob > chi2 = 0.7865

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -4.7804 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = 0.7060 Prob > |z| = 0.4802

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .49755422

Step 2 f(b) = .28572601

Fitting reduced model 2:

Step 1 f(b) = .16781336

Group variable: **mun_id** Number of obs = 956

Time variable: **year** Number of groups = 81

Moment conditions: linear = 41 Obs per group: min = 4
 nonlinear = 0 avg = 11.80247
 total = 41 max = 13

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_cap_cai	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_cai						
L1.	.3230112	.0813523	3.97	0.000	.1635636	.4824589
L2.	.029692	.0608355	0.49	0.625	-.0895434	.1489275
elec_t	.0696508	.095481	0.73	0.466	-.1174885	.2567901
l_rpc_total_expenses	1.098077	.6092261	1.80	0.071	-.0959847	2.292138
Age	.0169374	.0219069	0.77	0.439	-.0259995	.0598742
sex						
Male	.9104978	.468781	1.94	0.052	-.0082961	1.829292
k_12centers	-.0019115	.0044784	-0.43	0.670	-.010689	.006866
gdp	2.35e-08	3.90e-08	0.60	0.547	-5.29e-08	9.98e-08
interest_rate	.0312495	.0473204	0.66	0.509	-.0614967	.1239958
debt	.0108954	.0109881	0.99	0.321	-.0106408	.0324316
deficit	-1.57e-07	1.65e-07	-0.95	0.342	-4.81e-07	1.67e-07
party_type						
National	-1.125657	.8783774	-1.28	0.200	-2.847245	.5959308
Provincial	.7222442	11.59906	0.06	0.950	-22.01149	23.45598

win_margin	-.0359526	.0244919	-1.47	0.142	-.0839557	.0120506
abstentionism	-.0155098	.0217491	-0.71	0.476	-.0581373	.0271177
pop_share014	.121649	.051407	2.37	0.018	.0208932	.2224049
pop_share65plus	-.1429409	.1989664	-0.72	0.472	-.5329078	.247026
_cons	-13.27601	8.792125	-1.51	0.131	-30.50826	3.956234

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L2.1_rpc_cap_cai L2.L2.1_rpc_cap_cai L1.Age L2.Age L1.2.sex L2.2.sex
  L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
  L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
  L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
  L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
  L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
  L1.1_rpc_total_expenses L2.1_rpc_total_expenses
2, model(level):
  D.L.1_rpc_cap_cai D.L2.1_rpc_cap_cai D.elec_t D.Age D.2.sex D.k_12centers
  D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(25) = 23.1438
 Prob > chi2 = 0.5692

2-step moment functions, 3-step weighting matrix chi2(25) = 26.1624
 Prob > chi2 = 0.3990

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -4.9096 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = 1.3663 Prob > |z| = 0.1719

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .61324649

Step 2 f(b) = .41026259

Fitting reduced model 2:

Step 1 f(b) = .2741102

Group variable: **mun_id** Number of obs = 956

Time variable: **year** Number of groups = 81

Moment conditions: linear = 56 Obs per group: min = 4
 nonlinear = 0 avg = 11.80247
 total = 56 max = 13

(Std. err. adjusted for 81 clusters in **mun_id**)

	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_cai						
l_rpc_cap_cai						
L1.	.3601724	.0710682	5.07	0.000	.2208812	.4994635
L2.	.0532278	.0595165	0.89	0.371	-.0634224	.1698781
elec_t	-.0322742	.0815717	-0.40	0.692	-.1921519	.1276034
l_rpc_total_expenses	.8234799	.5153267	1.60	0.110	-.1865419	1.833502
Age	.0072467	.0159553	0.45	0.650	-.024025	.0385185
sex						
Male	.6798684	.3908243	1.74	0.082	-.0861331	1.44587
k_12centers	-.0023666	.0040017	-0.59	0.554	-.0102098	.0054765
gdp	4.89e-08	2.99e-08	1.63	0.102	-9.76e-09	1.08e-07
interest_rate	.0142807	.0392454	0.36	0.716	-.0626388	.0912003
debt	.0043972	.0112445	0.39	0.696	-.0176416	.026436
deficit	-9.16e-08	1.59e-07	-0.58	0.565	-4.04e-07	2.20e-07

party_type						
National	-1.490614	1.024717	-1.45	0.146	-3.499023	.5177944
Provincial	2.465306	8.934319	0.28	0.783	-15.04564	19.97625
win_margin	-.0208108	.024144	-0.86	0.389	-.0681322	.0265106
abstentionism	.002886	.0193114	0.15	0.881	-.0349637	.0407357
pop_share014	.1216114	.0459152	2.65	0.008	.0316192	.2116036
pop_share65plus	-.1797388	.1217304	-1.48	0.140	-.4183259	.0588483
_cons	-9.74507	8.194157	-1.19	0.234	-25.80532	6.315181

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L2.1_rpc_cap_cai L2.L2.1_rpc_cap_cai L3.L2.1_rpc_cap_cai L1.Age L2.Age
  L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
  L3.k_12centers L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate
  L3.interest_rate L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit
  L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L1.3.party_type
  L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
  L1.abstentionism L2.abstentionism L3.abstentionism L1.pop_share014
  L2.pop_share014 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus
  L3.pop_share65plus L1.l_rpc_total_expenses L2.l_rpc_total_expenses
  L3.l_rpc_total_expenses
2, model(level):
  D.L1.l_rpc_cap_cai D.L2.l_rpc_cap_cai D.elec_t D.Age D.2.sex D.k_12centers
  D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(40) = 33.2313
 Prob > chi2 = 0.7668

2-step moment functions, 3-step weighting matrix chi2(40) = 39.0079
 Prob > chi2 = 0.5148

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -4.7551 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = 1.0795 Prob > |z| = 0.2804

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .68737383

Step 2 f(b) = .58341376

Fitting reduced model 2:

Step 1 f(b) = .41630167

Group variable: **mun_id**

Number of obs = 956

Time variable: **year**

Number of groups = 81

Moment conditions: linear = 67 Obs per group: min = 4
 nonlinear = 0 avg = 11.80247
 total = 67 max = 13

(Std. err. adjusted for 81 clusters in **mun_id**)

	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_cai						
l_rpc_cap_cai						
L1.	.3756966	.0645782	5.82	0.000	.2491257	.5022676
L2.	.0703487	.0665081	1.06	0.290	-.0600047	.2007021
elec_t	-.0522864	.0887531	-0.59	0.556	-.2262393	.1216665
l_rpc_total_expenses	1.079669	.5211988	2.07	0.038	.0581382	2.1012
Age	-.0069739	.013359	-0.52	0.602	-.0331571	.0192093
sex						
Male	.6870724	.3569663	1.92	0.054	-.0125687	1.386714

(Std. err. adjusted for 81 clusters in `mun_id`)

<code>l_rpc_salaries</code>	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
<code>l_rpc_salaries</code>						
<code>L1.</code>	.7605614	.1793994	4.24	0.000	.408945	1.112178
<code>elec_t</code>	-.03528	.0252294	-1.40	0.162	-.0847287	.0141687
<code>l_rpc_total_expenses</code>	.1178739	.1076058	1.10	0.273	-.0930296	.3287774
<code>Age</code>	.0011774	.003136	0.38	0.707	-.0049691	.0073238
<code>sex</code>						
<code>Male</code>	-.0565767	.056959	-0.99	0.321	-.1682142	.0550609
<code>k_12centers</code>	-.0005424	.0005426	-1.00	0.317	-.0016059	.0005211
<code>gdp</code>	1.55e-08	9.07e-09	1.71	0.087	-2.27e-09	3.33e-08
<code>interest_rate</code>	-.0091253	.0077617	-1.18	0.240	-.0243378	.0060873
<code>debt</code>	-.0071476	.0024753	-2.89	0.004	-.0119992	-.002296
<code>deficit</code>	6.89e-08	3.23e-08	2.13	0.033	5.64e-09	1.32e-07
<code>party_type</code>						
<code>National</code>	.1530038	.2384597	0.64	0.521	-.3143685	.6203762
<code>Provincial</code>	2.433437	2.096818	1.16	0.246	-1.67625	6.543124
<code>win_margin</code>	-.002212	.0025988	-0.85	0.395	-.0073056	.0028815
<code>abstentionism</code>	.0122332	.005131	2.38	0.017	.0021766	.0222899
<code>pop_share014</code>	.0174723	.0165292	1.06	0.290	-.0149242	.0498689
<code>pop_share65plus</code>	.0628741	.0348352	1.80	0.071	-.0054017	.13115
<code>_cons</code>	-1.103703	1.945079	-0.57	0.570	-4.915987	2.708581

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
    L1.L1_rpc_salaries L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
    L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
    L1.abstentionism L1.pop_share014 L1.pop_share65plus L1.l_rpc_total_expenses
2, model(level):
    D.L1_rpc_salaries D.elec_t D.Age D.2.sex D.k_12centers D.gdp
    D.interest_rate D.debt D.deficit
3, model(level):
    _cons

```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(10)    =    18.6339
                                                        Prob > chi2 =    0.0452

```

```

2-step moment functions, 3-step weighting matrix      chi2(10)    =    27.2427
                                                        Prob > chi2 =    0.0024

```

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-4.4824** Prob > |z| = **0.0000**H0: no autocorrelation of order 2: z = **0.4983** Prob > |z| = **0.6183**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.01406095**Step 2 f(b) = **.52669577**

Fitting reduced model 2:

Step 1 f(b) = **.30565094**Group variable: `mun_id`Number of obs = **1125**Time variable: `year`Number of groups = **81**

```

Moment conditions:      linear =    40    Obs per group:    min =    11
                       nonlinear =    0                    avg =    13.88889
                       total =    40                    max =    14

```

(Std. err. adjusted for 81 clusters in `mun_id`)

<code>l_rpc_salaries</code>	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
<code>l_rpc_salaries</code>						
L1.	.6932246	.1498303	4.63	0.000	.3995626	.9868867
elec_t	-.029502	.0156678	-1.88	0.060	-.0602102	.0012063
<code>l_rpc_total_expenses</code>	.1204423	.1425927	0.84	0.398	-.1590342	.3999189
Age	.0020686	.0026634	0.78	0.437	-.0031516	.0072887
sex						
Male	-.0058148	.0592954	-0.10	0.922	-.1220316	.110402
k_12centers	-.000404	.0007387	-0.55	0.584	-.0018518	.0010439
gdp	1.24e-08	7.86e-09	1.58	0.114	-2.97e-09	2.78e-08
interest_rate	-.0016196	.0057181	-0.28	0.777	-.0128268	.0095876
debt	-.0054767	.001354	-4.04	0.000	-.0081305	-.002823
deficit	7.45e-08	2.37e-08	3.15	0.002	2.81e-08	1.21e-07
party_type						
National	.2661902	.2495523	1.07	0.286	-.2229234	.7553037
Provincial	.5859499	1.530878	0.38	0.702	-2.414515	3.586415
win_margin	-.0036345	.0039939	-0.91	0.363	-.0114624	.0041934
abstentionism	.0080185	.0040319	1.99	0.047	.0001161	.0159209
pop_share014	.0079819	.014212	0.56	0.574	-.0198731	.035837
pop_share65plus	.0559533	.018006	3.11	0.002	.0206623	.0912443
_cons	-.2063353	2.316034	-0.09	0.929	-4.745679	4.333008

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L1.rpc_salaries L2.L1.rpc_salaries L1.Age L2.Age L1.2.sex L2.2.sex
  L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
  L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
  L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
  L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
  L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
  L1.l_rpc_total_expenses L2.l_rpc_total_expenses
2, model(level):
  D.L1.rpc_salaries D.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(25)      =    42.6624
                                                         Prob > chi2    =    0.0152

```

```

2-step moment functions, 3-step weighting matrix      chi2(25)      =    50.5207
                                                         Prob > chi2    =    0.0018

```

Arellano-Bond test for autocorrelation of the first-differenced residuals

```

H0: no autocorrelation of order 1:      z =    -4.2454      Prob > |z|    =    0.0000
H0: no autocorrelation of order 2:      z =     0.5604      Prob > |z|    =    0.5752

```

Generalized method of moments estimation

Fitting full model:

```

Step 1      f(b) =    .02714934
Step 2      f(b) =    .59779832

```

Fitting reduced model 2:

```

Step 1      f(b) =    .5338952

```

Group variable: `mun_id`

Number of obs = 1125

Time variable: `year`

Number of groups = 81

Moment conditions: linear = 54 Obs per group: min = 11
 nonlinear = 0 avg = 13.88889
 total = 54 max = 14

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_salaries	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_salaries						
L1.	.6645097	.1276446	5.21	0.000	.4143308	.9146885
elec_t	-.0295591	.0142965	-2.07	0.039	-.0575798	-.0015384
l_rpc_total_expenses	.1636725	.0993671	1.65	0.100	-.0310834	.3584285
Age	.0038067	.0025972	1.47	0.143	-.0012838	.0088972
sex						
Male	-.0022832	.0610389	-0.04	0.970	-.1219173	.1173508
k_12centers	-.0002047	.0005778	-0.35	0.723	-.0013372	.0009278
gdp	1.14e-08	6.11e-09	1.87	0.062	-5.80e-10	2.34e-08
interest_rate	-.0014569	.0048135	-0.30	0.762	-.0108911	.0079774
debt	-.0046865	.0012804	-3.66	0.000	-.007196	-.0021769
deficit	6.77e-08	1.86e-08	3.63	0.000	3.12e-08	1.04e-07
party_type						
National	.3637914	.2637097	1.38	0.168	-.1530701	.8806528
Provincial	-.40934	1.749808	-0.23	0.815	-3.8389	3.02022
win_margin	-.0035853	.0035884	-1.00	0.318	-.0106184	.0034479
abstentionism	.0084055	.0045162	1.86	0.063	-.0004462	.0172571
pop_share014	.0083276	.0140696	0.59	0.554	-.0192484	.0359036
pop_share65plus	.0512818	.0213679	2.40	0.016	.0094015	.0931621
_cons	-.8403219	1.497459	-0.56	0.575	-3.775288	2.094644

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L.1_rpc_salaries L2.L.1_rpc_salaries L3.L.1_rpc_salaries L1.Age L2.Age
  L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
  L3.k_12centers L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate
  L3.interest_rate L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit
  L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L1.3.party_type
  L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
  L1.abstentionism L2.abstentionism L3.abstentionism L1.pop_share014
  L2.pop_share014 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus
  L3.pop_share65plus L1.l_rpc_total_expenses L2.l_rpc_total_expenses
  L3.l_rpc_total_expenses
2, model(level):
  D.L.1_rpc_salaries D.Age D.2.sex D.k_12centers D.gdp D.interest_rate D.debt
  D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(39) = 48.4217
 Prob > chi2 = 0.1433

2-step moment functions, 3-step weighting matrix chi2(39) = 61.2318
 Prob > chi2 = 0.0130

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -4.1070 Prob > |z| = 0.0000
 H0: no autocorrelation of order 2: z = 0.4690 Prob > |z| = 0.6391

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .03017569
 Step 2 f(b) = .63639376

Fitting reduced model 2:
Step 1 f(b) = **.54662248**

Group variable: **mun_id** Number of obs = **1125**
Time variable: **year** Number of groups = **81**

Moment conditions: linear = **65** Obs per group: min = **11**
nonlinear = **0** avg = **13.88889**
total = **65** max = **14**

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_salaries	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_salaries						
L1.	.6768465	.1014166	6.67	0.000	.4780737	.8756193
elec_t	-.0321769	.0142716	-2.25	0.024	-.0601487	-.0042051
l_rpc_total_expenses	.1710301	.0943929	1.81	0.070	-.0139766	.3560368
Age	.0029918	.0021739	1.38	0.169	-.001269	.0072527
sex						
Male	.0124133	.0581503	0.21	0.831	-.1015593	.1263858
k_12centers	-.0002123	.0005003	-0.42	0.671	-.0011928	.0007682
gdp	1.13e-08	5.46e-09	2.07	0.039	5.92e-10	2.20e-08
interest_rate	.0002479	.0047668	0.05	0.959	-.0090948	.0095906
debt	-.0048902	.001237	-3.95	0.000	-.0073147	-.0024656
deficit	7.14e-08	1.77e-08	4.04	0.000	3.68e-08	1.06e-07
party_type						
National	.3842711	.2092029	1.84	0.066	-.0257589	.7943012
Provincial	.3212791	1.324677	0.24	0.808	-2.27504	2.917598
win_margin	-.0032136	.0018385	-1.75	0.080	-.006817	.0003898
abstentionism	.0090552	.0038229	2.37	0.018	.0015624	.0165479
pop_share014	.0075598	.0116858	0.65	0.518	-.0153441	.0304636
pop_share65plus	.0521699	.021805	2.39	0.017	.0094328	.094907
_cons	-1.093389	1.050805	-1.04	0.298	-3.152928	.9661506

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L1_rpc_salaries L2.L1_rpc_salaries L3.L1_rpc_salaries
  L4.L1_rpc_salaries L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex
  L4.2.sex L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp
  L2.gdp L3.gdp L4.gdp L4.interest_rate L2.debt L3.debt L4.debt L1.deficit
  L2.deficit L3.deficit L4.deficit L1.2bn.party_type L2.2bn.party_type
  L3.2bn.party_type L4.2bn.party_type L1.3.party_type L2.3.party_type
  L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin L3.win_margin
  L4.win_margin L1.abstentionism L2.abstentionism L3.abstentionism
  L4.abstentionism L1.pop_share014 L2.pop_share014 L3.pop_share014
  L4.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus
  L4.pop_share65plus L1.l_rpc_total_expenses L2.l_rpc_total_expenses
  L3.l_rpc_total_expenses L4.l_rpc_total_expenses
2, model(level):
  D.L1_rpc_salaries D.Age D.2.sex D.k_12centers D.gdp D.interest_rate D.debt
  D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(50) = **51.5479**
Prob > chi2 = **0.4130**

2-step moment functions, 3-step weighting matrix chi2(50) = **66.2089**
Prob > chi2 = **0.0620**

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-4.3892** Prob > |z| = **0.0000**
H0: no autocorrelation of order 2: z = **0.4792** Prob > |z| = **0.6318**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.00922736**

Step 2 f(b) = **.15080957**

Fitting reduced model 2:

Step 1 f(b) = **6.109e-18**

Group variable: **mun_id**

Number of obs = **1042**

Time variable: **year**

Number of groups = **81**

Moment conditions: linear = **26** Obs per group: min = **10**
nonlinear = **0** avg = **12.8642**
total = **26** max = **13**

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_salaries	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_salaries						
L1.	.7879614	.1462329	5.39	0.000	.5013503	1.074573
L2.	.0995706	.0837593	1.19	0.235	-.0645945	.2637357
elec_t	-.0391493	.0156984	-2.49	0.013	-.0699175	-.0083811
l_rpc_total_expenses	.3038701	.2589683	1.17	0.241	-.2036984	.8114387
Age	.0010212	.00366	0.28	0.780	-.0061524	.0081947
sex						
Male	-.0373168	.0828765	-0.45	0.653	-.1997516	.1251181
k_12centers	.0000891	.0007684	0.12	0.908	-.0014169	.0015951
gdp	9.78e-09	1.46e-08	0.67	0.503	-1.89e-08	3.84e-08
interest_rate	-.0113537	.0064415	-1.76	0.078	-.0239787	.0012714
debt	-.0097081	.0029421	-3.30	0.001	-.0154745	-.0039418
deficit	8.59e-08	2.88e-08	2.98	0.003	2.94e-08	1.42e-07
party_type						
National	.2449785	.4538379	0.54	0.589	-.6445275	1.134484
Provincial	-.9277082	2.664937	-0.35	0.728	-6.150889	4.295473
win margin	-.00114	.0033797	-0.34	0.736	-.0077641	.0054841
abstentionism	.0107652	.0057426	1.87	0.061	-.0004901	.0220205
pop_share014	.0169988	.0176342	0.96	0.335	-.0175636	.0515611
pop_share65plus	.0702591	.0208891	3.36	0.001	.0293172	.111201
_cons	-4.858092	3.403569	-1.43	0.153	-11.52897	1.812782

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.l_rpc_salaries L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate

L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin

L1.abstentionism L1.pop_share014 L1.pop_share65plus L1.l_rpc_total_expenses

2, model(level):

D.L.l_rpc_salaries D.L2.l_rpc_salaries D.elec_t D.Age D.2.sex D.k_12centers

D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(10) = **12.2156**
Prob > chi2 = **0.2709**

2-step moment functions, 3-step weighting matrix chi2(10) = **13.3171**
Prob > chi2 = **0.2065**

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-3.0910** Prob > |z| = **0.0020**
H0: no autocorrelation of order 2: z = **-1.1502** Prob > |z| = **0.2501**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.01781442**

Step 2 f(b) = **.40282045**

Fitting reduced model 2:

Step 1 f(b) = **.24027413**

Group variable: **mun_id** Number of obs = **1042**

Time variable: **year** Number of groups = **81**

Moment conditions: linear = **41** Obs per group: min = **10**
nonlinear = **0** avg = **12.8642**
total = **41** max = **13**

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_salaries	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_salaries						
L1.	.6336395	.1584604	4.00	0.000	.3230628	.9442162
L2.	.0108977	.0788636	0.14	0.890	-.143672	.1654675
elec_t	-.0336336	.0163478	-2.06	0.040	-.0656747	-.0015925
l_rpc_total_expenses	.4306295	.2121148	2.03	0.042	.0148922	.8463667
Age	.0055659	.0027054	2.06	0.040	.0002633	.0108685
sex						
Male	-.0056215	.0624521	-0.09	0.928	-.1280253	.1167824
k_12centers	.0008329	.0008816	0.94	0.345	-.0008949	.0025608
gdp	-2.58e-09	9.07e-09	-0.28	0.776	-2.04e-08	1.52e-08
interest_rate	-.0029173	.0051444	-0.57	0.571	-.0130001	.0071655
debt	-.0041229	.0019212	-2.15	0.032	-.0078885	-.0003574
deficit	7.71e-08	2.52e-08	3.05	0.002	2.76e-08	1.27e-07
party_type						
National	.2883209	.3057865	0.94	0.346	-.3110095	.8876513
Provincial	-3.246952	2.834761	-1.15	0.252	-8.802981	2.309077
win_margin	-.0035938	.003236	-1.11	0.267	-.0099363	.0027486
abstentionism	.0097144	.0049702	1.95	0.051	-.000027	.0194559
pop_share014	-.0106193	.0200096	-0.53	0.596	-.0498374	.0285987
pop_share65plus	.0466607	.0225398	2.07	0.038	.0024836	.0908378
_cons	-4.027873	2.417509	-1.67	0.096	-8.766103	.7103572

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.l_rpc_salaries L2.L2.l_rpc_salaries L1.Age L2.Age L1.2.sex L2.2.sex
L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
L1.l_rpc_total_expenses L2.l_rpc_total_expenses

2, model(level):

D.L.l_rpc_salaries D.L2.l_rpc_salaries D.elec_t D.Age D.2.sex D.k_12centers
D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(25) = **32.6285**
Prob > chi2 = **0.1406**

2-step moment functions, 3-step weighting matrix chi2(25) = 52.8292
 Prob > chi2 = 0.0009

Arellano-Bond test for autocorrelation of the first-differenced residuals
 H0: no autocorrelation of order 1: z = -3.4385 Prob > |z| = 0.0006
 H0: no autocorrelation of order 2: z = 0.0918 Prob > |z| = 0.9269

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .02495812
 Step 2 f(b) = .53680869

Fitting reduced model 2:

Step 1 f(b) = .4009041

Group variable: **mun_id** Number of obs = 1042
 Time variable: **year** Number of groups = 81

Moment conditions: linear = 54 Obs per group: min = 10
 nonlinear = 0 avg = 12.8642
 total = 54 max = 13

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_salaries	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_salaries						
L1.	.6321506	.1381743	4.58	0.000	.361334	.9029672
L2.	.0081132	.0729675	0.11	0.911	-.1349005	.1511269
elec_t	-.0215056	.0177614	-1.21	0.226	-.0563172	.013306
l_rpc_total_expenses	.1878067	.1716439	1.09	0.274	-.1486091	.5242225
Age	.0028714	.0031524	0.91	0.362	-.0033071	.0090499
sex						
Male	.0281854	.0595376	0.47	0.636	-.0885061	.1448769
k_12centers	.000125	.0005187	0.24	0.810	-.0008917	.0011417
gdp	7.97e-09	5.86e-09	1.36	0.174	-3.52e-09	1.95e-08
interest_rate	-.0033178	.0046242	-0.72	0.473	-.0123811	.0057454
_debt	-.0040883	.001346	-3.04	0.002	-.0067264	-.0014501
deficit	6.12e-08	2.44e-08	2.51	0.012	1.35e-08	1.09e-07
party_type						
National	.4814653	.2816281	1.71	0.087	-.0705157	1.033446
Provincial	-2.497606	2.577372	-0.97	0.333	-7.549162	2.55395
win_margin	-.0007129	.0036958	-0.19	0.847	-.0079566	.0065308
abstentionism	.0037975	.0060845	0.62	0.533	-.008128	.015723
pop_share014	.0007877	.0196044	0.04	0.968	-.0376362	.0392115
pop_share65plus	.0407887	.0188894	2.16	0.031	.003766	.0778113
_cons	-.4854098	2.468432	-0.20	0.844	-5.323448	4.352628

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.1_rpc_salaries L2.L2.1_rpc_salaries L3.L2.1_rpc_salaries L1.Age
 L2.Age L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
 L3.k_12centers L1.gdp L2.gdp L3.gdp L3.interest_rate L1.debt L2.debt
 L3.debt L1.deficit L2.deficit L3.deficit L1.2bn.party_type
 L2.2bn.party_type L3.2bn.party_type L1.3.party_type L2.3.party_type
 L3.3.party_type L1.win_margin L2.win_margin L3.win margin L1.abstentionism
 L2.abstentionism L3.abstentionism L1.pop_share014 L2.pop_share014
 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus
 L1.l_rpc_total_expenses L2.l_rpc_total_expenses L3.l_rpc_total_expenses

2, model(level):

D.L.1_rpc_salaries D.L2.1_rpc_salaries D.elec_t D.Age D.2.sex D.k_12centers
 D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix $\chi^2(38) = 43.4815$
Prob > $\chi^2 = 0.2493$

2-step moment functions, 3-step weighting matrix $\chi^2(38) = 61.3774$
Prob > $\chi^2 = 0.0095$

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: $z = -4.1141$ Prob > $|z| = 0.0000$
H0: no autocorrelation of order 2: $z = 0.3428$ Prob > $|z| = 0.7317$

Generalized method of moments estimation

Fitting full model:

Step 1 $f(b) = .02962964$
Step 2 $f(b) = .58759035$

Fitting reduced model 2:

Step 1 $f(b) = .4922323$

Group variable: **mun_id** Number of obs = 1042
Time variable: **year** Number of groups = 81

Moment conditions: linear = 65 Obs per group: min = 10
 nonlinear = 0 avg = 12.8642
 total = 65 max = 13

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_salaries	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_salaries						
L1.	.6097551	.1201978	5.07	0.000	.3741718	.8453385
L2.	.0249506	.0645668	0.39	0.699	-.1015981	.1514993
elec_t	-.0241649	.0157959	-1.53	0.126	-.0551243	.0067944
l_rpc_total_expenses	.2586848	.1079057	2.40	0.017	.0471937	.470176
Age	.0028054	.0021905	1.28	0.200	-.001488	.0070987
sex						
Male	.0271483	.0601726	0.45	0.652	-.0907879	.1450845
k_12centers	.0002638	.0004827	0.55	0.585	-.0006823	.0012099
gdp	5.31e-09	5.40e-09	0.98	0.326	-5.28e-09	1.59e-08
interest_rate	-.0018845	.0043607	-0.43	0.666	-.0104313	.0066622
debt	-.0042386	.0013236	-3.20	0.001	-.0068329	-.0016443
deficit	6.84e-08	2.25e-08	3.05	0.002	2.44e-08	1.12e-07
party_type						
National	.3941127	.2081763	1.89	0.058	-.0139053	.8021307
Provincial	-1.031537	1.493965	-0.69	0.490	-3.959654	1.89658
win_margin	-.0019935	.0019017	-1.05	0.294	-.0057207	.0017336
abstentionism	.0060977	.0034742	1.76	0.079	-.0007116	.012907
pop_share014	-.0033904	.0148149	-0.23	0.819	-.0324271	.0256463
pop_share65plus	.0409922	.0174626	2.35	0.019	.0067661	.0752183
_cons	-1.406299	1.559816	-0.90	0.367	-4.463483	1.650885

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.1_rpc_salaries L2.L2.1_rpc_salaries L3.L2.1_rpc_salaries
L4.L2.1_rpc_salaries L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex
L4.2.sex L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp
L2.gdp L3.gdp L4.gdp L1.debt L3.debt L4.debt L1.deficit L2.deficit
L3.deficit L4.deficit L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type
L4.2bn.party_type L1.3.party_type L2.3.party_type L3.3.party_type
L4.3.party_type L1.win_margin L2.win_margin L3.win_margin L4.win_margin
L1.abstentionism L2.abstentionism L3.abstentionism L4.abstentionism
L1.pop_share014 L2.pop_share014 L3.pop_share014 L4.pop_share014
L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus L4.pop_share65plus

```

L1.l_rpc_total_expenses L2.l_rpc_total_expenses L3.l_rpc_total_expenses
L4.l_rpc_total_expenses
2, model(level):
  D.L1.l_rpc_salaries D.L2.l_rpc_salaries D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(49) = **47.5948**
Prob > chi2 = **0.5302**

2-step moment functions, 3-step weighting matrix chi2(49) = **67.9407**
Prob > chi2 = **0.0378**

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = **-4.1376** Prob > |z| = **0.0000**
H0: no autocorrelation of order 2: z = **0.2702** Prob > |z| = **0.7870**

Generalized method of moments estimation

Fitting full model:
Step 1 f(b) = **.07650651**
Step 2 f(b) = **.26534606**

Fitting reduced model 2:
Step 1 f(b) = **3.146e-23**

Group variable: **mun_id** Number of obs = **1092**
Time variable: **year** Number of groups = **81**

Moment conditions: linear = **25** Obs per group: min = **5**
 nonlinear = **0** avg = **13.48148**
 total = **25** max = **14**

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_ext_time	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_ext_time						
L1.	.7205696	.0886548	8.13	0.000	.5468094	.8943298
elec_t	.1237677	.0787198	1.57	0.116	-.0305203	.2780556
l_rpc_total_expenses	-.9735142	.5803159	-1.68	0.093	-2.110912	.1638839
Age	-.005621	.0104494	-0.54	0.591	-.0261015	.0148595
sex						
Male	-.4224081	.2751971	-1.53	0.125	-.9617846	.1169684
k_12centers	-.0019634	.0024782	-0.79	0.428	-.0068206	.0028939
gdp	5.11e-08	2.59e-08	1.97	0.049	2.50e-10	1.02e-07
interest_rate	-.0231376	.0212415	-1.09	0.276	-.0647702	.018495
debt	-.020631	.0107996	-1.91	0.056	-.0417978	.0005358
deficit	1.28e-07	1.44e-07	0.89	0.372	-1.53e-07	4.10e-07
party_type						
National	-.6399254	.9886007	-0.65	0.517	-2.577547	1.297696
Provincial	5.967641	10.66084	0.56	0.576	-14.92722	26.8625
win_margin	.0088911	.0223302	0.40	0.691	-.0348753	.0526574
abstentionism	-.0107379	.0277429	-0.39	0.699	-.0651129	.0436371
pop_share014	.0250159	.0585283	0.43	0.669	-.0896975	.1397294
pop_share65plus	.0762164	.1345847	0.57	0.571	-.1875647	.3399975
_cons	17.44992	8.80246	1.98	0.047	.1974127	34.70242

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L1.l_rpc_ext_time L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
  L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
  L1.abstentionism L1.pop_share014 L1.pop_share65plus L1.l_rpc_total_expenses

```

```

2, model(level):
  D.L1_rpc_ext_time D.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(10)    =    21.4930
                                                         Prob > chi2 =    0.0179

```

```

2-step moment functions, 3-step weighting matrix      chi2(10)    =    19.6021
                                                         Prob > chi2 =    0.0332

```

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = -4.4260 Prob > |z| = 0.0000
H0: no autocorrelation of order 2: z = 0.1334 Prob > |z| = 0.8939

Generalized method of moments estimation

```

Fitting full model:
Step 1          f(b) =   .18563323
Step 2          f(b) =   .52542006

```

```

Fitting reduced model 2:
Step 1          f(b) =   .37007745

```

```

Group variable: mun_id          Number of obs      =    1092
Time variable:  year           Number of groups   =     81

```

```

Moment conditions:      linear =    40      Obs per group:   min =     5
                       nonlinear =    0      avg =   13.48148
                       total =    40      max =    14

```

(Std. err. adjusted for 81 clusters in mun_id)

	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_ext_time						
l_rpc_ext_time L1.	.6517194	.0791028	8.24	0.000	.4966808	.806758
elec_t	.1083015	.0628368	1.72	0.085	-.0148564	.2314593
l_rpc_total_expenses	-.3529854	.456799	-0.77	0.440	-1.248295	.5423241
Age	-.0144357	.008628	-1.67	0.094	-.0313463	.0024749
sex						
Male	-.0267686	.1944016	-0.14	0.890	-.4077887	.3542514
k_12centers	-.0017029	.0015455	-1.10	0.271	-.004732	.0013261
gdp	4.24e-08	2.63e-08	1.61	0.107	-9.15e-09	9.40e-08
interest_rate	-.0269299	.0188608	-1.43	0.153	-.0638963	.0100366
debt	-.0104036	.0059651	-1.74	0.081	-.0220949	.0012877
deficit	-1.48e-08	6.65e-08	-0.22	0.823	-1.45e-07	1.15e-07
party_type						
National	-.1320425	.8308934	-0.16	0.874	-1.760564	1.496479
Provincial	4.931405	8.295688	0.59	0.552	-11.32784	21.19065
win_margin	.0003738	.0102992	0.04	0.971	-.0198122	.0205598
abstentionism	-.0172506	.0177139	-0.97	0.330	-.0519693	.0174681
pop_share014	.0405332	.0334826	1.21	0.226	-.0250915	.1061579
pop_share65plus	-.0575391	.0812522	-0.71	0.479	-.2167905	.1017123
_cons	8.655006	6.720579	1.29	0.198	-4.517088	21.8271

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L1_rpc_ext_time L2.L1_rpc_ext_time L1.Age L2.Age L1.2.sex L2.2.sex
  L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
  L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
  L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
  L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014

```

```

L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
L1.l_rpc_total_expenses L2.l_rpc_total_expenses
2, model(level):
  D.L1.rpc_ext_time D.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(25)    =    42.5590
                                                         Prob > chi2 =    0.0156

```

```

2-step moment functions, 3-step weighting matrix      chi2(25)    =    47.4944
                                                         Prob > chi2 =    0.0043

```

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = **-4.2316** Prob > |z| = **0.0000**
H0: no autocorrelation of order 2: z = **0.6264** Prob > |z| = **0.5311**

Generalized method of moments estimation

```

Fitting full model:
Step 1          f(b) = .28218835
Step 2          f(b) = .65271315

```

```

Fitting reduced model 2:
Step 1          f(b) = .53409093

```

```

Group variable: mun_id                Number of obs      =    1092
Time variable: year                  Number of groups   =     81

```

```

Moment conditions:      linear =    55      Obs per group:   min =     5
                       nonlinear =    0      avg =   13.48148
                       total =    55      max =    14

```

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_ext_time	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_ext_time						
L1.	.6684598	.0816767	8.18	0.000	.5083764	.8285432
elec_t	.0474118	.0506036	0.94	0.349	-.0517694	.1465929
l_rpc_total_expenses	.0915211	.4234843	0.22	0.829	-.7384928	.9215351
Age	-.0116581	.008851	-1.32	0.188	-.0290057	.0056896
sex						
Male	.1102585	.1379305	0.80	0.424	-.1600802	.3805972
k_12centers	-.0013715	.0016665	-0.82	0.411	-.0046378	.0018948
gdp	3.20e-08	2.45e-08	1.30	0.193	-1.61e-08	8.01e-08
interest_rate	-.0314683	.0146052	-2.15	0.031	-.0600939	-.0028427
debt	-.0096542	.0050388	-1.92	0.055	-.01953	.0002216
deficit	-3.34e-08	5.77e-08	-0.58	0.563	-1.46e-07	7.97e-08
party_type						
National	-.3635862	.5730447	-0.63	0.526	-1.486733	.7595609
Provincial	4.833717	7.306105	0.66	0.508	-9.485987	19.15342
win margin	-.0041259	.0063226	-0.65	0.514	-.0165181	.0082662
abstentionism	.0058651	.0131517	0.45	0.656	-.0199117	.0316418
pop_share014	.045127	.0274131	1.65	0.100	-.0086017	.0988558
pop_share65plus	-.0189411	.0676881	-0.28	0.780	-.1516074	.1137252
_cons	.1947724	5.980093	0.03	0.974	-11.526	11.91554

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L1.rpc_ext_time L2.L1.rpc_ext_time L3.L1.rpc_ext_time L1.Age L2.Age
  L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
  L3.k_12centers L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate

```

```

L3.interest_rate L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit
L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L1.3.party_type
L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
L1.abstentionism L2.abstentionism L3.abstentionism L1.pop_share014
L2.pop_share014 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus
L3.pop_share65plus L1.l_rpc_total_expenses L2.l_rpc_total_expenses
L3.l_rpc_total_expenses
2, model(level):
  D.L1_rpc_ext_time D.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix      chi2(40)      =    52.8698
                                                        Prob > chi2 =    0.0836

2-step moment functions, 3-step weighting matrix      chi2(40)      =    58.4497
                                                        Prob > chi2 =    0.0299

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1:      z =    -4.5202   Prob > |z| =    0.0000
H0: no autocorrelation of order 2:      z =     0.6364   Prob > |z| =    0.5245

Generalized method of moments estimation

Fitting full model:
Step 1          f(b) =   .33211312
Step 2          f(b) =   .72885727

Fitting reduced model 2:
Step 1          f(b) =   .63359901

Group variable:  mun_id                      Number of obs      =    1092
Time variable:  year                        Number of groups   =     81

Moment conditions:  linear =    67          Obs per group:  min =     5
                   nonlinear =    0          avg =   13.48148
                   total =    67          max =    14

                                (Std. err. adjusted for 81 clusters in mun_id)

```

l_rpc_ext_time	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_ext_time						
L1.	.6385729	.0698622	9.14	0.000	.5016456	.7755002
elec_t	.0235806	.0401771	0.59	0.557	-.0551651	.1023263
l_rpc_total_expenses	.0553738	.2673851	0.21	0.836	-.4686914	.5794391
Age	-.0071601	.0067333	-1.06	0.288	-.0203571	.0060369
sex						
Male	.1115322	.1092083	1.02	0.307	-.1025121	.3255764
k_12centers	-.0013123	.0012088	-1.09	0.278	-.0036814	.0010568
gdp	3.49e-08	1.78e-08	1.96	0.050	-4.37e-11	6.98e-08
interest_rate	-.0321573	.0131576	-2.44	0.015	-.0579458	-.0063688
debt	-.0100763	.0045965	-2.19	0.028	-.0190852	-.0010674
deficit	-7.91e-10	4.76e-08	-0.02	0.987	-9.41e-08	9.25e-08
party_type						
National	-.2768638	.4647681	-0.60	0.551	-1.187792	.6340649
Provincial	5.025602	5.825817	0.86	0.388	-6.39279	16.44399
win_margin	-.0025408	.0056823	-0.45	0.655	-.0136778	.0085963
abstentionism	.0073718	.01226	0.60	0.548	-.0166574	.0314011
pop_share014	.0477716	.0176602	2.71	0.007	.0131583	.0823849
pop_share65plus	-.0084376	.0556229	-0.15	0.879	-.1174565	.1005814
_cons	.3475795	3.920125	0.09	0.929	-7.335725	8.030884

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L1_rpc_ext_time L2.L1_rpc_ext_time L3.L1_rpc_ext_time
  L4.L1_rpc_ext_time L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex
  L4.2.sex L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp
  L2.gdp L3.gdp L4.gdp L2.interest_rate L1.debt L2.debt L3.debt L4.debt
  L1.deficit L2.deficit L3.deficit L4.deficit L1.2bn.party_type
  L2.2bn.party_type L3.2bn.party_type L4.2bn.party_type L1.3.party_type
  L2.3.party_type L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin
  L3.win_margin L4.win_margin L1.abstentionism L2.abstentionism
  L3.abstentionism L4.abstentionism L1.pop_share014 L2.pop_share014
  L3.pop_share014 L4.pop_share014 L1.pop_share65plus L2.pop_share65plus
  L3.pop_share65plus L4.pop_share65plus L1.l_rpc_total_expenses
  L2.l_rpc_total_expenses L3.l_rpc_total_expenses L4.l_rpc_total_expenses
2, model(level):
  D.L1_rpc_ext_time D.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

```
2-step moment functions, 2-step weighting matrix      chi2(52)    =    59.0374
                                                        Prob > chi2 =    0.2339
```

```
2-step moment functions, 3-step weighting matrix      chi2(52)    =    67.5113
                                                        Prob > chi2 =    0.0728
```

Arellano-Bond test for autocorrelation of the first-differenced residuals

```
H0: no autocorrelation of order 1:      z =    -4.8441    Prob > |z| =    0.0000
```

```
H0: no autocorrelation of order 2:      z =    0.6400    Prob > |z| =    0.5222
```

Generalized method of moments estimation

Fitting full model:

```
Step 1          f(b) =    .04964648
```

```
Step 2          f(b) =    .12829915
```

Fitting reduced model 2:

```
Step 1          f(b) =    1.294e-17
```

Group variable: **mun_id**

```
Number of obs      =    1007
```

Time variable: **year**

```
Number of groups   =    81
```

```
Moment conditions:      linear =    26      Obs per group:      min =    4
                        nonlinear =    0          avg =   12.4321
                        total =    26          max =    13
```

(Std. err. adjusted for 81 clusters in **mun_id**)

		Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
<hr/>							
l_rpc_ext_time							
<hr/>							
l_rpc_ext_time							
L1.		.745858	.0705569	10.57	0.000	.6075691	.8841469
L2.		-.0027033	.0516724	-0.05	0.958	-.1039795	.0985728
<hr/>							
elec_t		.0533107	.0617608	0.86	0.388	-.0677382	.1743595
l_rpc_total_expenses		-.1500465	.2603565	-0.58	0.564	-.6603359	.3602428
Age		.0055952	.0073598	0.76	0.447	-.0088298	.0200202
<hr/>							
sex							
Male		-.2102708	.1663866	-1.26	0.206	-.5363826	.115841
k_12centers		.0005682	.0013585	0.42	0.676	-.0020945	.0032309
gdp		5.47e-08	1.69e-08	3.24	0.001	2.16e-08	8.78e-08
interest_rate		-.0205759	.0202952	-1.01	0.311	-.0603539	.019202
debt		-.027192	.0062271	-4.37	0.000	-.0393969	-.0149871
deficit		4.46e-08	7.20e-08	0.62	0.536	-9.66e-08	1.86e-07
<hr/>							
party_type							
National		-.0737144	.4965387	-0.15	0.882	-1.046912	.8994835

Provincial	.7154088	4.374692	0.16	0.870	-7.858829	9.289647
win_margin	.0125545	.0097712	1.28	0.199	-.0065967	.0317057
abstentionism	.0051682	.0137422	0.38	0.707	-.0217659	.0321024
pop_share014	.034782	.0158064	2.20	0.028	.0038021	.065762
pop_share65plus	.0811213	.0638501	1.27	0.204	-.0440225	.2062652
_cons	2.170508	3.960831	0.55	0.584	-5.592577	9.933593

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L2.l_rpc_ext_time L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
  L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
  L1.abstentionism L1.pop_share014 L1.pop_share65plus L1.l_rpc_total_expenses
2, model(level):
  D.L1.rpc_ext_time D.L2.l_rpc_ext_time D.elec_t D.Age D.2.sex D.k_12centers
  D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(10) = 10.3922
 Prob > chi2 = 0.4068

2-step moment functions, 3-step weighting matrix chi2(10) = 13.2870
 Prob > chi2 = 0.2081

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -5.0399 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = 1.5105 Prob > |z| = 0.1309

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .11248067

Step 2 f(b) = .38057749

Fitting reduced model 2:

Step 1 f(b) = .10775063

Group variable: **mun_id** Number of obs = 1007

Time variable: **year** Number of groups = 81

Moment conditions: linear = 41 Obs per group: min = 4
 nonlinear = 0 avg = 12.4321
 total = 41 max = 13

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_ext_time	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_ext_time						
L1.	.653425	.065553	9.97	0.000	.5249435	.7819065
L2.	-.0157528	.0417026	-0.38	0.706	-.0974883	.0659827
elec_t	.0320225	.0547669	0.58	0.559	-.0753186	.1393637
l_rpc_total_expenses	.0853234	.5743206	0.15	0.882	-1.040324	1.210971
Age	-.0042735	.0068631	-0.62	0.534	-.017725	.009178
sex						
Male	.0512984	.1947201	0.26	0.792	-.330346	.4329429
k_12centers	-.0002686	.0011417	-0.24	0.814	-.0025062	.001969
gdp	4.06e-08	2.57e-08	1.58	0.115	-9.90e-09	9.10e-08
interest_rate	-.0175017	.0155924	-1.12	0.262	-.0480623	.0130588
debt	-.0180521	.0059208	-3.05	0.002	-.0296567	-.0064476
deficit	1.00e-08	7.65e-08	0.13	0.896	-1.40e-07	1.60e-07
party_type						
National	-.1225958	.6537431	-0.19	0.851	-1.403909	1.158717
Provincial	.7399647	4.754855	0.16	0.876	-8.579379	10.05931

win_margin	.0007153	.0063879	0.11	0.911	-.0118046	.0132353
abstentionism	-.0054492	.0117793	-0.46	0.644	-.0285362	.0176378
pop_share014	.0476477	.0223228	2.13	0.033	.0038957	.0913997
pop_share65plus	.0350066	.0656063	0.53	0.594	-.0935793	.1635926
_cons	.2615428	8.226212	0.03	0.975	-15.86154	16.38462

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L2.1_rpc_ext_time L2.L2.1_rpc_ext_time L1.Age L2.Age L1.2.sex L2.2.sex
  L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
  L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
  L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
  L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
  L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
  L1.1_rpc_total_expenses L2.1_rpc_total_expenses
2, model(level):
  D.L.1_rpc_ext_time D.L2.1_rpc_ext_time D.elec_t D.Age D.2.sex D.k_12centers
  D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

```
2-step moment functions, 2-step weighting matrix      chi2(25)      =      30.8268
                                                         Prob > chi2    =      0.1948

2-step moment functions, 3-step weighting matrix      chi2(25)      =      33.2242
                                                         Prob > chi2    =      0.1256
```

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = -4.6674 Prob > |z| = 0.0000
H0: no autocorrelation of order 2: z = 2.0132 Prob > |z| = 0.0441

Generalized method of moments estimation

```
Fitting full model:
Step 1      f(b) = .1598286
Step 2      f(b) = .5283749
```

```
Fitting reduced model 2:
Step 1      f(b) = .3851074
```

```
Group variable: mun_id      Number of obs      =      1007
Time variable: year        Number of groups   =      81
```

```
Moment conditions:      linear =      56      Obs per group:      min =      4
                        nonlinear =      0      avg =      12.4321
                        total =      56      max =      13
```

(Std. err. adjusted for 81 clusters in mun_id)

	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_ext_time						
l_rpc_ext_time						
L1.	.6756354	.0611006	11.06	0.000	.5558805	.7953903
L2.	-.0296225	.0475185	-0.62	0.533	-.1227571	.0635121
elec_t	-.0199045	.0455895	-0.44	0.662	-.1092584	.0694493
l_rpc_total_expenses	-.2437434	.2447671	-1.00	0.319	-.7234781	.2359913
Age	-.0032205	.0067543	-0.48	0.633	-.0164586	.0100176
sex						
Male	.0353345	.1457906	0.24	0.808	-.2504099	.3210789
k_12centers	-.0011477	.0012164	-0.94	0.345	-.0035318	.0012364
gdp	6.51e-08	1.38e-08	4.73	0.000	3.82e-08	9.21e-08
interest_rate	-.0214418	.012708	-1.69	0.092	-.0463491	.0034655
debt	-.0201778	.0047998	-4.20	0.000	-.0295853	-.0107704
deficit	3.63e-08	5.49e-08	0.66	0.509	-7.13e-08	1.44e-07

party_type						
National	-.135288	.5760888	-0.23	0.814	-1.264401	.9938254
Provincial	5.475433	5.433208	1.01	0.314	-5.17346	16.12433
win_margin	-.0048399	.0049158	-0.98	0.325	-.0144747	.0047949
abstentionism	.0047856	.0088818	0.54	0.590	-.0126224	.0221936
pop_share014	.05469	.0187215	2.92	0.003	.0179966	.0913834
pop_share65plus	.023988	.0633679	0.38	0.705	-.1002108	.1481868
_cons	4.057584	3.627129	1.12	0.263	-3.051458	11.16663

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L2.l_rpc_ext_time L2.L2.l_rpc_ext_time L3.L2.l_rpc_ext_time L1.Age
  L2.Age L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
  L3.k_12centers L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate
  L3.interest_rate L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit
  L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L1.3.party_type
  L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
  L1.abstentionism L2.abstentionism L3.abstentionism L1.pop_share014
  L2.pop_share014 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus
  L3.pop_share65plus L1.l_rpc_total_expenses L2.l_rpc_total_expenses
  L3.l_rpc_total_expenses
2, model(level):
  D.L1.l_rpc_ext_time D.L2.l_rpc_ext_time D.elec_t D.Age D.2.sex D.k_12centers
  D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(40) = 42.7984
 Prob > chi2 = 0.3520

2-step moment functions, 3-step weighting matrix chi2(40) = 56.0376
 Prob > chi2 = 0.0475

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -4.8696 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = 1.9088 Prob > |z| = 0.0563

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .20299945

Step 2 f(b) = .62253114

Fitting reduced model 2:

Step 1 f(b) = .48968806

Group variable: **mun_id**

Number of obs = 1007

Time variable: **year**

Number of groups = 81

Moment conditions: linear = 67 Obs per group: min = 4
 nonlinear = 0 avg = 12.4321
 total = 67 max = 13

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_ext_time	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_ext_time						
L1.	.6677206	.061209	10.91	0.000	.5477532	.787688
L2.	-.0348376	.0511454	-0.68	0.496	-.1350808	.0654055
elec_t	-.0100742	.0406308	-0.25	0.804	-.0897092	.0695607
l_rpc_total_expenses	-.2972001	.2330676	-1.28	0.202	-.7540042	.159604
Age	.0008551	.0083047	0.10	0.918	-.0154219	.017132
sex						
Male	-.0039995	.1581363	-0.03	0.980	-.3139408	.3059419

k_12centers	-.0015591	.0011771	-1.32	0.185	-.0038662	.000748
gdp	6.39e-08	1.39e-08	4.60	0.000	3.66e-08	9.11e-08
interest_rate	-.0259517	.0119378	-2.17	0.030	-.0493492	-.0025541
debt	-.0186223	.0047319	-3.94	0.000	-.0278967	-.0093478
deficit	1.15e-08	5.46e-08	0.21	0.833	-9.54e-08	1.18e-07
party_type						
National	-.078248	.5055256	-0.15	0.877	-1.06906	.912564
Provincial	4.603007	4.707961	0.98	0.328	-4.624427	13.83044
win_margin	-.0014981	.0043951	-0.34	0.733	-.0101122	.0071161
abstentionism	.0046931	.0084328	0.56	0.578	-.0118348	.0212211
pop_share014	.0597225	.0177279	3.37	0.001	.0249764	.0944687
pop_share65plus	.0272865	.0535045	0.51	0.610	-.0775805	.1321535
_cons	4.560901	3.220217	1.42	0.157	-1.750609	10.87241

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L2.1_rpc_ext_time L2.L2.1_rpc_ext_time L3.L2.1_rpc_ext_time
  L4.L2.1_rpc_ext_time L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex
  L4.2.sex L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp
  L2.gdp L3.gdp L4.gdp L2.interest_rate L2.debt L3.debt L4.debt L1.deficit
  L2.deficit L3.deficit L4.deficit L1.2bn.party_type L2.2bn.party_type
  L3.2bn.party_type L4.2bn.party_type L1.3.party_type L2.3.party_type
  L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin L3.win_margin
  L4.win_margin L1.abstentionism L2.abstentionism L3.abstentionism
  L4.abstentionism L1.pop_share014 L2.pop_share014 L3.pop_share014
  L4.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus
  L4.pop_share65plus L1.l_rpc_total_expenses L2.l_rpc_total_expenses
  L3.l_rpc_total_expenses L4.l_rpc_total_expenses
2, model(level):
  D.L.1_rpc_ext_time D.L2.1_rpc_ext_time D.elec_t D.Age D.2.sex D.k_12centers
  D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix	chi2(51)	=	50.4250
	Prob > chi2	=	0.4964

2-step moment functions, 3-step weighting matrix	chi2(51)	=	63.8260
	Prob > chi2	=	0.1072

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1:	z =	-4.9736	Prob > z =	0.0000
H0: no autocorrelation of order 2:	z =	1.8266	Prob > z =	0.0678

Generalized method of moments estimation

Fitting full model:

Step 1	f(b) =	.01384616
Step 2	f(b) =	.21831956

Fitting reduced model 2:

Step 1	f(b) =	1.718e-21
--------	--------	-----------

Group variable: mun_id	Number of obs	=	1123
Time variable: year	Number of groups	=	81

Moment conditions:	linear =	25	Obs per group:	min =	10
	nonlinear =	0		avg =	13.8642
	total =	25		max =	14

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_sub_all	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_sub_all						
L1.	.5427764	.1844632	2.94	0.003	.1812351	.9043178
elec_t	-.0709677	.0173014	-4.10	0.000	-.1048779	-.0370575
l_rpc_total_expenses	-.0694501	.1068128	-0.65	0.516	-.2787994	.1398992
Age	.0009464	.0031683	0.30	0.765	-.0052633	.007156
sex						
Male	-.0440349	.073254	-0.60	0.548	-.1876101	.0995404
k_12centers	-.0008414	.000821	-1.02	0.305	-.0024504	.0007677
gdp	1.43e-08	7.58e-09	1.88	0.059	-5.69e-10	2.91e-08
interest_rate	-.0281831	.010401	-2.71	0.007	-.0485686	-.0077976
debt	-.0063722	.0019487	-3.27	0.001	-.0101915	-.0025529
deficit	8.07e-08	3.06e-08	2.64	0.008	2.07e-08	1.41e-07
party_type						
National	.2160694	.1238285	1.74	0.081	-.0266301	.4587688
Provincial	-1.921916	2.182794	-0.88	0.379	-6.200114	2.356282
win_margin	.0022305	.0030659	0.73	0.467	-.0037786	.0082396
abstentionism	.001054	.0048302	0.22	0.827	-.0084129	.0105209
pop_share014	.0172623	.0116539	1.48	0.139	-.0055789	.0401035
pop_share65plus	.0708019	.0359725	1.97	0.049	.0002971	.1413067
_cons	3.205852	2.044074	1.57	0.117	-.8004594	7.212163

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
    L1.L1_rpc_sub_all L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
    L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
    L1.abstentionism L1.pop_share014 L1.pop_share65plus L1.l_rpc_total_expenses
2, model(level):
    D.L1_rpc_sub_all D.elec_t D.Age D.2.sex D.k_12centers D.gdp
    D.interest_rate D.debt D.deficit
3, model(level):
    _cons

```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(10) = **17.6839**
 Prob > chi2 = **0.0605**

2-step moment functions, 3-step weighting matrix chi2(10) = **21.6769**
 Prob > chi2 = **0.0168**

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-4.2282** Prob > |z| = **0.0000**H0: no autocorrelation of order 2: z = **0.9618** Prob > |z| = **0.3362**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.02056324**Step 2 f(b) = **.57690813**

Fitting reduced model 2:

Step 1 f(b) = **.24277204**Group variable: **mun_id**Number of obs = **1123**Time variable: **year**Number of groups = **81**

Moment conditions: linear = **40** Obs per group: min = **10**
 nonlinear = **0** avg = **13.8642**
 total = **40** max = **14**

(Std. err. adjusted for 81 clusters in `mun_id`)

<code>l_rpc_sub_all</code>	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
<code>l_rpc_sub_all</code> <code>L1.</code>	.4789664	.12782	3.75	0.000	.2284438	.7294891
<code>elec_t</code>	-.0460238	.018086	-2.54	0.011	-.0814717	-.0105759
<code>l_rpc_total_expenses</code>	-.0693981	.1227294	-0.57	0.572	-.3099433	.1711471
<code>Age</code>	.001731	.0030953	0.56	0.576	-.0043356	.0077976
<code>sex</code>						
<code>Male</code>	-.081246	.076576	-1.06	0.289	-.2313322	.0688401
<code>k_12centers</code>	-.000794	.0008655	-0.92	0.359	-.0024903	.0009022
<code>gdp</code>	1.23e-08	7.86e-09	1.57	0.117	-3.08e-09	2.77e-08
<code>interest_rate</code>	-.0214388	.0093659	-2.29	0.022	-.0397956	-.0030821
<code>debt</code>	-.0036983	.0016987	-2.18	0.029	-.0070278	-.0003688
<code>deficit</code>	7.16e-08	2.72e-08	2.64	0.008	1.84e-08	1.25e-07
<code>party_type</code>						
<code>National</code>	.2104366	.1103491	1.91	0.057	-.0058436	.4267168
<code>Provincial</code>	-.9875244	1.795894	-0.55	0.582	-4.507411	2.532362
<code>win_margin</code>	-.0000789	.0031315	-0.03	0.980	-.0062165	.0060588
<code>abstentionism</code>	.0037773	.0051878	0.73	0.467	-.0063906	.0139453
<code>pop_share014</code>	.011554	.0106541	1.08	0.278	-.0093277	.0324356
<code>pop_share65plus</code>	.0623668	.028219	2.21	0.027	.0070585	.1176751
<code>_cons</code>	3.493356	2.143884	1.63	0.103	-.7085788	7.69529

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L1.l_rpc_sub_all L2.L1.l_rpc_sub_all L1.Age L2.Age L1.2.sex L2.2.sex
  L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
  L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
  L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
  L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
  L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
  L1.l_rpc_total_expenses L2.l_rpc_total_expenses
2, model(level):
  D.L1.l_rpc_sub_all D.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(25)      =    46.7296
                                                         Prob > chi2    =    0.0053

```

```

2-step moment functions, 3-step weighting matrix      chi2(25)      =    49.6923
                                                         Prob > chi2    =    0.0023

```

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-4.1612** Prob > |z| = **0.0000**H0: no autocorrelation of order 2: z = **1.1225** Prob > |z| = **0.2617**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.02902764**Step 2 f(b) = **.7881801**

Fitting reduced model 2:

Step 1 f(b) = **.68185568**Group variable: `mun_id`Number of obs = **1123**Time variable: `year`Number of groups = **81**

Fitting reduced model 2:

Step 1 f(b) = .77762165

Group variable: **mun_id**

Number of obs = 1123

Time variable: **year**

Number of groups = 81

Moment conditions:

linear =	65
nonlinear =	0
total =	65

Obs per group:

min =	10
avg =	13.8642
max =	14

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_sub_all	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_sub_all L1.	.5355431	.0965126	5.55	0.000	.3463819	.7247044
elec_t	-.0340481	.0174873	-1.95	0.052	-.0683226	.0002264
l_rpc_total_expenses	-.02966	.0754585	-0.39	0.694	-.177556	.1182359
Age	.0020296	.0027749	0.73	0.465	-.0034091	.0074683
sex						
Male	-.0354376	.071	-0.50	0.618	-.1745949	.1037198
k_12centers	-.000318	.0005346	-0.59	0.552	-.0013657	.0007298
gdp	5.26e-09	6.06e-09	0.87	0.385	-6.61e-09	1.71e-08
interest_rate	-.016891	.006989	-2.42	0.016	-.0305892	-.0031929
debt	-.0034062	.0015723	-2.17	0.030	-.0064878	-.0003246
deficit	6.79e-08	2.42e-08	2.80	0.005	2.04e-08	1.15e-07
party_type						
National	.1001266	.1259635	0.79	0.427	-.1467572	.3470105
Provincial	-.6091136	1.446255	-0.42	0.674	-3.443722	2.225495
win_margin	.0001721	.0027512	0.06	0.950	-.0052201	.0055642
abstentionism	.0017285	.0043289	0.40	0.690	-.006756	.0102131
pop_share014	.0035311	.0093851	0.38	0.707	-.0148634	.0219256
pop_share65plus	.0723325	.0257458	2.81	0.005	.0218717	.1227933
_cons	2.903187	1.148685	2.53	0.011	.6518053	5.154568

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L.1_rpc_sub_all L2.L.1_rpc_sub_all L3.L.1_rpc_sub_all L4.L.1_rpc_sub_all
 L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex L4.2.sex
 L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp L2.gdp
 L3.gdp L4.gdp L4.interest_rate L2.debt L3.debt L4.debt L1.deficit
 L2.deficit L3.deficit L4.deficit L1.2bn.party_type L2.2bn.party_type
 L3.2bn.party_type L4.2bn.party_type L1.3.party_type L2.3.party_type
 L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin L3.win_margin
 L4.win_margin L1.abstentionism L2.abstentionism L3.abstentionism
 L4.abstentionism L1.pop_share014 L2.pop_share014 L3.pop_share014
 L4.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus
 L4.pop_share65plus L1.l_rpc_total_expenses L2.l_rpc_total_expenses
 L3.l_rpc_total_expenses L4.l_rpc_total_expenses

2, model(level):

D.L.1_rpc_sub_all D.Age D.2.sex D.k_12centers D.gdp D.interest_rate D.debt
 D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(50) = 68.3438
 Prob > chi2 = 0.0433

2-step moment functions, 3-step weighting matrix chi2(50) = 70.7677
 Prob > chi2 = 0.0282

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-4.4577** Prob > |z| = **0.0000**
H0: no autocorrelation of order 2: z = **1.2928** Prob > |z| = **0.1961**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.00261132**

Step 2 f(b) = **.10026546**

Fitting reduced model 2:

Step 1 f(b) = **9.266e-21**

Group variable: **mun_id** Number of obs = **1040**

Time variable: **year** Number of groups = **81**

Moment conditions: linear = **26** Obs per group: min = **8**
nonlinear = **0** avg = **12.83951**
total = **26** max = **13**

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_sub_all	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_sub_all						
L1.	.6351796	.1051477	6.04	0.000	.4290938	.8412653
L2.	.1622238	.0622777	2.60	0.009	.0401617	.2842859
elec_t	-.1002767	.0189886	-5.28	0.000	-.1374937	-.0630598
l_rpc_total_expenses	.071345	.1485225	0.48	0.631	-.2197539	.3624438
Age	.0020909	.0034254	0.61	0.542	-.0046227	.0088045
sex						
Male	-.003599	.0639082	-0.06	0.955	-.1288568	.1216588
k_12centers	.000088	.0007646	0.12	0.908	-.0014106	.0015867
gdp	2.16e-08	8.16e-09	2.64	0.008	5.58e-09	3.76e-08
interest_rate	-.0308687	.008787	-3.51	0.000	-.0480909	-.0136464
debt	-.0129422	.0024697	-5.24	0.000	-.0177827	-.0081016
deficit	1.29e-07	3.22e-08	4.00	0.000	6.57e-08	1.92e-07
party_type						
National	.3573506	.2174633	1.64	0.100	-.0688697	.7835709
Provincial	-3.804731	4.147117	-0.92	0.359	-11.93293	4.323469
win margin	-.0012902	.0047175	-0.27	0.784	-.0105365	.007956
abstentionism	.0045164	.0068029	0.66	0.507	-.0088171	.0178499
pop_share014	.0099979	.0148083	0.68	0.500	-.0190258	.0390215
pop_share65plus	.06375	.0230541	2.77	0.006	.0185648	.1089353
_cons	-.6274732	2.310149	-0.27	0.786	-5.155282	3.900336

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.l_rpc_sub_all L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
L1.abstentionism L1.pop_share014 L1.pop_share65plus L1.l_rpc_total_expenses

2, model(level):

D.L.l_rpc_sub_all D.L2.l_rpc_sub_all D.elec_t D.Age D.2.sex D.k_12centers
D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(10) = **8.1215**
Prob > chi2 = **0.6170**

2-step moment functions, 3-step weighting matrix chi2(10) = **17.1090**
Prob > chi2 = **0.0720**

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-4.4948** Prob > |z| = **0.0000**
H0: no autocorrelation of order 2: z = **-2.2337** Prob > |z| = **0.0255**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.01285924**

Step 2 f(b) = **.51293743**

Fitting reduced model 2:

Step 1 f(b) = **.22013057**

Group variable: **mun_id** Number of obs = **1040**

Time variable: **year** Number of groups = **81**

Moment conditions: linear = **41** Obs per group: min = **8**
nonlinear = **0** avg = **12.83951**
total = **41** max = **13**

(Std. err. adjusted for **81** clusters in **mun_id**)

l_rpc_sub_all	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_sub_all						
L1.	.5487956	.081966	6.70	0.000	.3881452	.7094459
L2.	.0976707	.0725989	1.35	0.179	-.0446205	.239962
elec_t	-.0785562	.0195312	-4.02	0.000	-.1168367	-.0402756
l_rpc_total_expenses	.2011561	.1110975	1.81	0.070	-.0165911	.4189033
Age	.005362	.0044653	1.20	0.230	-.0033898	.0141138
sex						
Male	-.0445219	.0786704	-0.57	0.571	-.198713	.1096692
k_12centers	.0014837	.0008515	1.74	0.081	-.0001853	.0031527
gdp	8.38e-09	7.14e-09	1.17	0.241	-5.61e-09	2.24e-08
interest_rate	-.0203883	.0080281	-2.54	0.011	-.0361231	-.0046534
debt	-.0099507	.0021643	-4.60	0.000	-.0141927	-.0057087
deficit	1.52e-07	3.84e-08	3.96	0.000	7.68e-08	2.27e-07
party_type						
National	.2737671	.1465936	1.87	0.062	-.013551	.5610852
Provincial	-4.725979	3.399953	-1.39	0.165	-11.38976	1.937805
win_margin	-.0047177	.0035307	-1.34	0.181	-.0116377	.0022023
abstentionism	.008809	.0050844	1.73	0.083	-.0011562	.0187743
pop_share014	-.012813	.0149856	-0.86	0.393	-.0421842	.0165583
pop_share65plus	.0716708	.0326897	2.19	0.028	.0076003	.1357414
_cons	-1.411588	1.600363	-0.88	0.378	-4.548242	1.725067

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.1_rpc sub all L2.L2.1_rpc sub all L1.Age L2.Age L1.2.sex L2.2.sex
L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
L1.1_rpc_total_expenses L2.1_rpc_total_expenses

2, model(level):

D.L.1_rpc_sub_all D.L2.1_rpc_sub_all D.elec_t D.Age D.2.sex D.k_12centers
D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(25) = **41.5479**
Prob > chi2 = **0.0201**

2-step moment functions, 3-step weighting matrix chi2(25) = 52.2061
 Prob > chi2 = 0.0011

Arellano-Bond test for autocorrelation of the first-differenced residuals
 H0: no autocorrelation of order 1: z = -4.7546 Prob > |z| = 0.0000
 H0: no autocorrelation of order 2: z = -0.9129 Prob > |z| = 0.3613

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .02023357
 Step 2 f(b) = .66687686

Fitting reduced model 2:

Step 1 f(b) = .40658948

Group variable: **mun_id** Number of obs = 1040
 Time variable: **year** Number of groups = 81

Moment conditions: linear = 54 Obs per group: min = 8
 nonlinear = 0 avg = 12.83951
 total = 54 max = 13

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_sub_all	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_sub_all						
L1.	.5254658	.0858343	6.12	0.000	.3572337	.6936979
L2.	.0863656	.0770943	1.12	0.263	-.0647365	.2374677
elec_t	-.0724847	.0192261	-3.77	0.000	-.1101671	-.0348024
l_rpc_total_expenses	.0766971	.092682	0.83	0.408	-.1049563	.2583504
Age	.0026522	.003549	0.75	0.455	-.0043037	.0096081
sex						
Male	-.0517977	.0609291	-0.85	0.395	-.1712165	.0676211
k_12centers	.0009337	.0008227	1.13	0.256	-.0006787	.0025461
gdp	1.26e-08	5.85e-09	2.15	0.032	1.11e-09	2.40e-08
interest_rate	-.0189629	.0086893	-2.18	0.029	-.0359935	-.0019322
debt	-.0095956	.0019548	-4.91	0.000	-.013427	-.0057643
deficit	1.28e-07	3.19e-08	4.01	0.000	6.56e-08	1.91e-07
party_type						
National	.2968055	.1883623	1.58	0.115	-.0723778	.6659889
Provincial	-3.461884	3.0311	-1.14	0.253	-9.402731	2.478963
win_margin	-.0024353	.003573	-0.68	0.496	-.0094382	.0045676
abstentionism	.006455	.0054105	1.19	0.233	-.0041493	.0170593
pop_share014	-.0064149	.01272	-0.50	0.614	-.0313456	.0185157
pop_share65plus	.0796762	.0264844	3.01	0.003	.0277678	.1315846
_cons	.6319554	1.405171	0.45	0.653	-2.12213	3.386041

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.l_rpc_sub_all L2.L2.l_rpc_sub_all L3.L2.l_rpc_sub_all L1.Age L2.Age
 L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
 L3.k_12centers L1.gdp L2.gdp L3.gdp L3.interest_rate L1.debt L2.debt
 L3.debt L1.deficit L2.deficit L3.deficit L1.2bn.party_type
 L2.2bn.party_type L3.2bn.party_type L1.3.party_type L2.3.party_type
 L3.3.party_type L1.win_margin L2.win_margin L3.win_margin L1.abstentionism
 L2.abstentionism L3.abstentionism L1.pop_share014 L2.pop_share014
 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus
 L1.l_rpc_total_expenses L2.l_rpc_total_expenses L3.l_rpc_total_expenses

2, model(level):

D.L.l_rpc_sub_all D.L2.l_rpc_sub_all D.elec_t D.Age D.2.sex D.k_12centers
 D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(38) = 54.0170
Prob > chi2 = 0.0443

2-step moment functions, 3-step weighting matrix chi2(38) = 60.3889
Prob > chi2 = 0.0119

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -4.6141 Prob > |z| = 0.0000
H0: no autocorrelation of order 2: z = -0.7404 Prob > |z| = 0.4591

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .02297354
Step 2 f(b) = .72938005

Fitting reduced model 2:

Step 1 f(b) = .63002945

Group variable: **mun_id** Number of obs = 1040
Time variable: **year** Number of groups = 81

Moment conditions: linear = 65 Obs per group: min = 8
 nonlinear = 0 avg = 12.83951
 total = 65 max = 13

(Std. err. adjusted for 81 clusters in **mun_id**)

l_rpc_sub_all	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_sub_all						
L1.	.5262322	.0907189	5.80	0.000	.3484265	.704038
L2.	.0797645	.0605721	1.32	0.188	-.0389546	.1984835
elec_t	-.0703694	.0174999	-4.02	0.000	-.1046685	-.0360703
l_rpc_total_expenses	.0550004	.0758947	0.72	0.469	-.0937504	.2037512
Age	.0027523	.0025435	1.08	0.279	-.0022329	.0077375
sex						
Male	-.0329823	.053388	-0.62	0.537	-.1376209	.0716564
k_12centers	.0004827	.0007063	0.68	0.494	-.0009016	.0018671
gdp	1.25e-08	5.51e-09	2.28	0.023	1.76e-09	2.33e-08
interest_rate	-.0180971	.007397	-2.45	0.014	-.032595	-.0035993
debt	-.009577	.001572	-6.09	0.000	-.0126581	-.0064958
deficit	1.19e-07	2.70e-08	4.39	0.000	6.58e-08	1.72e-07
party_type						
National	.2127215	.1501708	1.42	0.157	-.0816078	.5070508
Provincial	-2.052569	2.188108	-0.94	0.348	-6.341182	2.236044
win_margin	-.0018528	.002464	-0.75	0.452	-.0066822	.0029766
abstentionism	.0056577	.0040355	1.40	0.161	-.0022518	.0135672
pop_share014	-.0043427	.010431	-0.42	0.677	-.0247871	.0161018
pop_share65plus	.0849691	.0201721	4.21	0.000	.0454325	.1245057
_cons	1.028791	1.146179	0.90	0.369	-1.217679	3.27526

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.1_rpc_sub_all L2.L2.1_rpc_sub_all L3.L2.1_rpc_sub_all
L4.L2.1_rpc_sub_all L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex
L4.2.sex L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp
L2.gdp L3.gdp L4.gdp L1.debt L3.debt L4.debt L1.deficit L2.deficit
L3.deficit L4.deficit L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type
L4.2bn.party_type L1.3.party_type L2.3.party_type L3.3.party_type
L4.3.party_type L1.win_margin L2.win_margin L3.win_margin L4.win_margin
L1.abstentionism L2.abstentionism L3.abstentionism L4.abstentionism
L1.pop_share014 L2.pop_share014 L3.pop_share014 L4.pop_share014
L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus L4.pop_share65plus

```

L1.l_rpc_total_expenses L2.l_rpc_total_expenses L3.l_rpc_total_expenses
L4.l_rpc_total_expenses
2, model(level):
  D.L1.l_rpc_sub_all D.L2.l_rpc_sub_all D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(49) = 59.0798
Prob > chi2 = 0.1534

2-step moment functions, 3-step weighting matrix chi2(49) = 66.1181
Prob > chi2 = 0.0519

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = -4.4425 Prob > |z| = 0.0000
H0: no autocorrelation of order 2: z = -0.6488 Prob > |z| = 0.5165

Generalized method of moments estimation

Fitting full model:
Step 1 f(b) = .21512559
Step 2 f(b) = .08351484

Fitting reduced model 2:
Step 1 f(b) = 8.426e-24

Group variable: **mun_id** Number of obs = 1061
Time variable: **year** Number of groups = 80

Moment conditions: linear = 25 Obs per group: min = 4
 nonlinear = 0 avg = 13.2625
 total = 25 max = 14

(Std. err. adjusted for 80 clusters in **mun_id**)

l_rpc_rent_mef	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_rent_mef						
L1.	.5055482	.0951464	5.31	0.000	.3190646	.6920318
elec_t	.275737	.1556383	1.77	0.076	-.0293085	.5807824
l_rpc_total_expenses	1.892198	.8287909	2.28	0.022	.2677976	3.516598
Age	.0050227	.0153274	0.33	0.743	-.0250186	.0350639
sex						
Male	.4885671	.3937336	1.24	0.215	-.2831366	1.260271
k_12centers	.0013041	.0052379	0.25	0.803	-.0089619	.0115702
gdp	-1.19e-07	5.49e-08	-2.16	0.031	-2.26e-07	-1.11e-08
interest_rate	.0665923	.0440338	1.51	0.130	-.0197124	.152897
debt	.0328987	.0196974	1.67	0.095	-.0057074	.0715048
deficit	-6.52e-07	3.00e-07	-2.17	0.030	-1.24e-06	-6.43e-08
party_type						
National	-.2371207	2.01813	-0.12	0.906	-4.192583	3.718342
Provincial	4.340406	15.10784	0.29	0.774	-25.27041	33.95122
win_margin	.0024924	.0163645	0.15	0.879	-.0295814	.0345662
abstentionism	-.0557286	.0394295	-1.41	0.158	-.133009	.0215518
pop_share014	.1371771	.072362	1.90	0.058	-.0046499	.279004
pop_share65plus	-.0393343	.3408778	-0.12	0.908	-.7074424	.6287739
_cons	-25.21141	11.71126	-2.15	0.031	-48.16507	-2.257756

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L1.l_rpc_rent_mef L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
  L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
  L1.abstentionism L1.pop_share014 L1.pop_share65plus L1.l_rpc_total_expenses

```

```

2, model(level):
  D.L1_rpc_rent_mef D.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(10)    =    6.6812
                                                         Prob > chi2 =    0.7552

```

```

2-step moment functions, 3-step weighting matrix      chi2(10)    =    6.6579
                                                         Prob > chi2 =    0.7573

```

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = -5.0158 Prob > |z| = 0.0000
H0: no autocorrelation of order 2: z = 1.2850 Prob > |z| = 0.1988

Generalized method of moments estimation

```

Fitting full model:
Step 1          f(b) = .47088472
Step 2          f(b) = .24364041

```

```

Fitting reduced model 2:
Step 1          f(b) = .1651076

```

```

Group variable: mun_id          Number of obs      =    1061
Time variable: year            Number of groups   =     80

```

```

Moment conditions:      linear =    40      Obs per group:   min =     4
                        nonlinear =    0      avg =    13.2625
                        total =    40      max =     14

```

(Std. err. adjusted for 80 clusters in mun_id)

	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_rent_mef						
l_rpc_rent_mef						
L1.	.4550401	.0783123	5.81	0.000	.3015508	.6085295
elec_t	.2678408	.09342	2.87	0.004	.0847408	.4509407
l_rpc_total_expenses	1.73503	.8736754	1.99	0.047	.0226577	3.447402
Age	-.0006023	.0168076	-0.04	0.971	-.0335446	.0323399
sex						
Male	.6105741	.4385036	1.39	0.164	-.2488771	1.470025
k_12centers	-.0012411	.0049043	-0.25	0.800	-.0108534	.0083711
gdp	-6.90e-08	5.07e-08	-1.36	0.174	-1.68e-07	3.05e-08
interest_rate	-.0119624	.0323726	-0.37	0.712	-.0754115	.0514868
debt	.0207237	.011478	1.81	0.071	-.0017728	.0432202
deficit	-5.25e-07	1.53e-07	-3.43	0.001	-8.25e-07	-2.25e-07
party_type						
National	-.5023398	1.879417	-0.27	0.789	-4.185929	3.18125
Provincial	1.892627	10.86554	0.17	0.862	-19.40345	23.1887
win_margin	.0131997	.0174402	0.76	0.449	-.0209825	.0473818
abstentionism	-.0726612	.0291766	-2.49	0.013	-.1298463	-.0154761
pop_share014	.1736719	.080739	2.15	0.031	.0154264	.3319174
pop_share65plus	-.2045148	.1960234	-1.04	0.297	-.5887136	.179684
_cons	-20.4476	11.91572	-1.72	0.086	-43.80199	2.90679

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L1_rpc_rent_mef L2.L1_rpc_rent_mef L1.Age L2.Age L1.2.sex L2.2.sex
  L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
  L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
  L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
  L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014

```

```

L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
L1.l_rpc_total_expenses L2.l_rpc_total_expenses
2, model(level):
  D.L1.l_rpc_rent_mef D.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(25)    =    19.4912
                                                        Prob > chi2 =    0.7730

```

```

2-step moment functions, 3-step weighting matrix      chi2(25)    =    24.1332
                                                        Prob > chi2 =    0.5117

```

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = -5.0852 Prob > |z| = 0.0000
H0: no autocorrelation of order 2: z = 1.1023 Prob > |z| = 0.2703

Generalized method of moments estimation

```

Fitting full model:
Step 1          f(b) = .82302935
Step 2          f(b) = .43959304

```

```

Fitting reduced model 2:
Step 1          f(b) = .30939391

```

```

Group variable: mun_id          Number of obs      =    1061
Time variable: year            Number of groups   =     80

```

```

Moment conditions:      linear =    55      Obs per group:   min =     4
                      nonlinear =    0      avg =    13.2625
                      total =    55      max =    14

```

(Std. err. adjusted for 80 clusters in mun_id)

l_rpc_rent_mef	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_rent_mef						
L1.	.4533348	.109186	4.15	0.000	.2393342	.6673354
elec_t	.1819322	.0925733	1.97	0.049	.0004919	.3633725
l_rpc_total_expenses	1.987065	.9004561	2.21	0.027	.2222038	3.751927
Age	.0082784	.0142063	0.58	0.560	-.0195655	.0361223
sex						
Male	.5204651	.2873123	1.81	0.070	-.0426566	1.083587
k_12centers	.0020018	.0050399	0.40	0.691	-.0078763	.0118799
gdp	-8.57e-08	5.07e-08	-1.69	0.091	-1.85e-07	1.36e-08
interest_rate	-.0328951	.0318373	-1.03	0.301	-.0952952	.0295049
debt	.0114747	.0100502	1.14	0.254	-.0082234	.0311729
deficit	-3.16e-07	1.08e-07	-2.92	0.004	-5.28e-07	-1.04e-07
party_type						
National	-.16897	1.274609	-0.13	0.895	-2.667158	2.329219
Provincial	6.410758	10.95598	0.59	0.558	-15.06256	27.88408
win margin	.0016547	.0114568	0.14	0.885	-.0208003	.0241096
abstentionism	-.0317547	.0254664	-1.25	0.212	-.0816681	.0181586
pop_share014	.0906356	.0389843	2.32	0.020	.0142279	.1670434
pop_share65plus	-.1148572	.1139096	-1.01	0.313	-.3381159	.1084014
_cons	-24.98521	12.78049	-1.95	0.051	-50.03451	.064093

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L1.l_rpc_rent_mef L2.L1.l_rpc_rent_mef L3.L1.l_rpc_rent_mef L1.Age L2.Age
  L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
  L3.k_12centers L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate

```

```

L3.interest_rate L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit
L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L1.3.party_type
L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
L1.abstentionism L2.abstentionism L3.abstentionism L1.pop_share014
L2.pop_share014 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus
L3.pop_share65plus L1.l_rpc_total_expenses L2.l_rpc_total_expenses
L3.l_rpc_total_expenses
2, model(level):
  D.L.l_rpc_rent_mef D.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(40)      =    35.1674
                                                         Prob > chi2 =    0.6873

2-step moment functions, 3-step weighting matrix      chi2(40)      =    41.1398
                                                         Prob > chi2 =    0.4205

```

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = -4.3560 Prob > |z| = 0.0000
H0: no autocorrelation of order 2: z = 1.2331 Prob > |z| = 0.2175

Generalized method of moments estimation

```

Fitting full model:
Step 1          f(b) =   .88805301
Step 2          f(b) =   .56897558

Fitting reduced model 2:
Step 1          f(b) =   .42613407

```

```

Group variable:  mun_id                      Number of obs      =    1061
Time variable:  year                          Number of groups   =     80

Moment conditions:  linear =    67      Obs per group:   min =     4
                   nonlinear =    0      avg =    13.2625
                   total =    67      max =     14

```

(Std. err. adjusted for 80 clusters in mun_id)

l_rpc_rent_mef	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_rent_mef						
L1.	.4588011	.098685	4.65	0.000	.265382	.6522202
elec_t	.1215035	.0885236	1.37	0.170	-.0519996	.2950065
l_rpc_total_expenses	2.174537	1.089571	2.00	0.046	.0390165	4.310057
Age	.0081258	.0147037	0.55	0.581	-.020693	.0369446
sex						
Male	.5513956	.3565316	1.55	0.122	-.1473934	1.250185
k_12centers	.0022516	.0059219	0.38	0.704	-.0093552	.0138583
gdp	-8.69e-08	6.13e-08	-1.42	0.157	-2.07e-07	3.34e-08
interest_rate	-.0384017	.0359417	-1.07	0.285	-.1088461	.0320428
debt	.009866	.0110206	0.90	0.371	-.011734	.031466
deficit	-3.27e-07	1.10e-07	-2.98	0.003	-5.42e-07	-1.12e-07
party_type						
National	-.5888603	1.257444	-0.47	0.640	-3.053405	1.875684
Provincial	10.3521	13.53291	0.76	0.444	-16.17192	36.87611
win_margin	-.0036116	.0110457	-0.33	0.744	-.0252607	.0180375
abstentionism	-.0142394	.0219483	-0.65	0.516	-.0572573	.0287786
pop_share014	.0949943	.0508349	1.87	0.062	-.0046403	.1946289
pop_share65plus	-.0621868	.1171658	-0.53	0.596	-.2918276	.167454
_cons	-29.09084	15.22949	-1.91	0.056	-58.94009	.7584152

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L1_rpc_rent_mef L2.L1_rpc_rent_mef L3.L1_rpc_rent_mef
  L4.L1_rpc_rent_mef L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex
  L4.2.sex L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp
  L2.gdp L3.gdp L4.gdp L2.interest_rate L1.debt L2.debt L3.debt L4.debt
  L1.deficit L2.deficit L3.deficit L4.deficit L1.2bn.party_type
  L2.2bn.party_type L3.2bn.party_type L4.2bn.party_type L1.3.party_type
  L2.3.party_type L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin
  L3.win_margin L4.win_margin L1.abstentionism L2.abstentionism
  L3.abstentionism L4.abstentionism L1.pop_share014 L2.pop_share014
  L3.pop_share014 L4.pop_share014 L1.pop_share65plus L2.pop_share65plus
  L3.pop_share65plus L4.pop_share65plus L1.l_rpc_total_expenses
  L2.l_rpc_total_expenses L3.l_rpc_total_expenses L4.l_rpc_total_expenses
2, model(level):
  D.L1_rpc_rent_mef D.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

```
2-step moment functions, 2-step weighting matrix      chi2(52)    =    45.5180
                                                        Prob > chi2 =    0.7251
```

```
2-step moment functions, 3-step weighting matrix      chi2(52)    =    57.0978
                                                        Prob > chi2 =    0.2914
```

Arellano-Bond test for autocorrelation of the first-differenced residuals

```
H0: no autocorrelation of order 1:      z =    -4.6212    Prob > |z| =    0.0000
H0: no autocorrelation of order 2:      z =     1.3917    Prob > |z| =    0.1640
```

Generalized method of moments estimation

Fitting full model:

```
Step 1      f(b) =    .20128244
Step 2      f(b) =    .10312821
```

Fitting reduced model 2:

```
Step 1      f(b) =    2.727e-24
```

```
Group variable: mun_id      Number of obs      =    973
Time variable: year        Number of groups   =    80
```

```
Moment conditions:      linear =    26      Obs per group:      min =    2
                        nonlinear =    0      avg =    12.1625
                        total =    26      max =    13
```

(Std. err. adjusted for 80 clusters in mun_id)

l_rpc_rent_mef	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_rent_mef						
L1.	.5397174	.127768	4.22	0.000	.2892967	.7901381
L2.	.1069876	.1016132	1.05	0.292	-.0921705	.3061458
elec_t	.1448674	.1230616	1.18	0.239	-.096329	.3860638
l_rpc_total_expenses	1.694446	.8096392	2.09	0.036	.107582	3.28131
Age	-.0023665	.0186809	-0.13	0.899	-.0389804	.0342475
sex						
Male	.5339156	.3304208	1.62	0.106	-.1136973	1.181529
k_12centers	.0015211	.0043827	0.35	0.729	-.0070687	.010111
gdp	-1.02e-07	8.08e-08	-1.26	0.208	-2.60e-07	5.68e-08
interest_rate	.0300465	.0672907	0.45	0.655	-.1018407	.1619338
debt	.0173136	.0218445	0.79	0.428	-.0255008	.060128
deficit	-4.22e-07	1.84e-07	-2.30	0.022	-7.82e-07	-6.21e-08
party_type						
National	-1.912643	1.776573	-1.08	0.282	-5.394663	1.569376

Provincial	1.891341	12.81688	0.15	0.883	-23.22928	27.01196
win_margin	-.0059546	.0207889	-0.29	0.775	-.0467001	.0347908
abstentionism	-.0234816	.0436073	-0.54	0.590	-.1089504	.0619872
pop_share014	.069109	.0474125	1.46	0.145	-.0238178	.1620358
pop_share65plus	-.0456214	.206372	-0.22	0.825	-.450103	.3588603
_cons	-20.59176	11.70917	-1.76	0.079	-43.5413	2.357787

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L2.l_rpc_rent_mef L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
  L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
  L1.abstentionism L1.pop_share014 L1.pop_share65plus L1.l_rpc_total_expenses
2, model(level):
  D.L1.l_rpc_rent_mef D.L2.l_rpc_rent_mef D.elec_t D.Age D.2.sex D.k_12centers
  D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(10) = 8.2503
 Prob > chi2 = 0.6044

2-step moment functions, 3-step weighting matrix chi2(10) = 8.4967
 Prob > chi2 = 0.5804

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -3.8654 Prob > |z| = 0.0001

H0: no autocorrelation of order 2: z = 0.3877 Prob > |z| = 0.6982

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .40847412

Step 2 f(b) = .30222363

Fitting reduced model 2:

Step 1 f(b) = .2144011

Group variable: **mun_id** Number of obs = 973

Time variable: **year** Number of groups = 80

Moment conditions: linear = 41 Obs per group: min = 2
 nonlinear = 0 avg = 12.1625
 total = 41 max = 13

(Std. err. adjusted for 80 clusters in **mun_id**)

l_rpc_rent_mef	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_rent_mef						
L1.	.4862419	.109703	4.43	0.000	.2712279	.701256
L2.	.0310686	.0813464	0.38	0.703	-.1283674	.1905045
elec_t	.0935792	.1047619	0.89	0.372	-.1117504	.2989088
l_rpc_total_expenses	1.868203	1.105957	1.69	0.091	-.2994331	4.03584
Age	-.0031648	.0151455	-0.21	0.834	-.0328495	.0265199
sex						
Male	.6662249	.2735556	2.44	0.015	.1300657	1.202384
k_12centers	.0009883	.0048146	0.21	0.837	-.0084481	.0104248
gdp	-5.81e-08	6.18e-08	-0.94	0.347	-1.79e-07	6.30e-08
interest_rate	-.0343078	.0357829	-0.96	0.338	-.1044411	.0358254
debt	.0033324	.0148409	0.22	0.822	-.0257552	.0324199
deficit	-3.59e-07	1.48e-07	-2.43	0.015	-6.49e-07	-6.93e-08
party_type						
National	-1.197546	1.220929	-0.98	0.327	-3.590523	1.195431
Provincial	5.216768	13.71693	0.38	0.704	-21.66792	32.10146

win_margin	.0067566	.0166548	0.41	0.685	-.0258862	.0393994
abstentionism	-.0437349	.0307258	-1.42	0.155	-.1039562	.0164865
pop_share014	.0875496	.0485517	1.80	0.071	-.0076099	.1827091
pop_share65plus	-.1843513	.184539	-1.00	0.318	-.5460412	.1773385
_cons	-21.05749	14.87772	-1.42	0.157	-50.21728	8.102296

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L2.1_rpc_rent_mef L2.L2.1_rpc_rent_mef L1.Age L2.Age L1.2.sex L2.2.sex
  L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
  L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
  L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
  L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
  L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
  L1.1_rpc_total_expenses L2.1_rpc_total_expenses
2, model(level):
  D.L.1_rpc_rent_mef D.L2.1_rpc_rent_mef D.elec_t D.Age D.2.sex D.k_12centers
  D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(25) = 24.1779
 Prob > chi2 = 0.5091

2-step moment functions, 3-step weighting matrix chi2(25) = 28.9466
 Prob > chi2 = 0.2662

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -4.2368 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = 1.2203 Prob > |z| = 0.2223

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .6897161

Step 2 f(b) = .43547558

Fitting reduced model 2:

Step 1 f(b) = .31014804

Group variable: **mun_id** Number of obs = 973
 Time variable: **year** Number of groups = 80

Moment conditions: linear = 56 Obs per group: min = 2
 nonlinear = 0 avg = 12.1625
 total = 56 max = 13

(Std. err. adjusted for 80 clusters in **mun_id**)

	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_rent_mef						
l_rpc_rent_mef						
L1.	.546858	.0928819	5.89	0.000	.3648129	.7289031
L2.	.052552	.0817509	0.64	0.520	-.1076768	.2127808
elec_t	.085565	.0995001	0.86	0.390	-.1094516	.2805815
l_rpc_total_expenses	1.082893	.8432477	1.28	0.199	-.5698422	2.735628
Age	-.0074309	.0127157	-0.58	0.559	-.0323532	.0174914
sex						
Male	.6106908	.2844155	2.15	0.032	.0532467	1.168135
k_12centers	.0001131	.003361	0.03	0.973	-.0064743	.0067005
gdp	-7.51e-09	4.73e-08	-0.16	0.874	-1.00e-07	8.51e-08
interest_rate	-.0535227	.0281401	-1.90	0.057	-.1086763	.001631
debt	-.0075926	.012402	-0.61	0.540	-.0318999	.0167148
deficit	-2.52e-07	1.23e-07	-2.05	0.041	-4.93e-07	-1.07e-08

party_type						
National	-.5822469	.8356343	-0.70	0.486	-2.22006	1.055566
Provincial	1.744305	11.72608	0.15	0.882	-21.2384	24.72701
win_margin	.0098686	.0149938	0.66	0.510	-.0195187	.0392559
abstentionism	-.0302211	.0281126	-1.08	0.282	-.0853208	.0248786
pop_share014	.0972838	.0326092	2.98	0.003	.033371	.1611966
pop_share65plus	-.0900829	.1044412	-0.86	0.388	-.2947839	.1146182
_cons	-12.30875	11.80972	-1.04	0.297	-35.45537	10.83787

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L2.l_rpc_rent_mef L2.L2.l_rpc_rent_mef L3.L2.l_rpc_rent_mef L1.Age
  L2.Age L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
  L3.k_12centers L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate
  L3.interest_rate L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit
  L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L1.3.party_type
  L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
  L1.abstentionism L2.abstentionism L3.abstentionism L1.pop_share014
  L2.pop_share014 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus
  L3.pop_share65plus L1.l_rpc_total_expenses L2.l_rpc_total_expenses
  L3.l_rpc_total_expenses
2, model(level):
  D.L1.l_rpc_rent_mef D.L2.l_rpc_rent_mef D.elec_t D.Age D.2.sex D.k_12centers
  D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(40) = 34.8380
 Prob > chi2 = 0.7014

2-step moment functions, 3-step weighting matrix chi2(40) = 41.4713
 Prob > chi2 = 0.4064

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -4.7800 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = 0.9811 Prob > |z| = 0.3265

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .73554605

Step 2 f(b) = .54166519

Fitting reduced model 2:

Step 1 f(b) = .37006864

Group variable: **mun_id**

Number of obs = 973

Time variable: **year**

Number of groups = 80

Moment conditions: linear = 67 Obs per group: min = 2
 nonlinear = 0 avg = 12.1625
 total = 67 max = 13

(Std. err. adjusted for 80 clusters in **mun_id**)

l_rpc_rent_mef	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_rent_mef						
L1.	.5121377	.0969315	5.28	0.000	.3221554	.7021199
L2.	.0687172	.0837339	0.82	0.412	-.0953982	.2328327
elec_t	.0567684	.0969757	0.59	0.558	-.1333005	.2468373
l_rpc_total_expenses	1.046985	.7897794	1.33	0.185	-.5009538	2.594925
Age	-.0054749	.0131945	-0.41	0.678	-.0313357	.0203858
sex						
Male	.5310528	.3225071	1.65	0.100	-.1010496	1.163155

k_12centers	.0005118	.0034376	0.15	0.882	-.0062258	.0072493
gdp	8.00e-09	4.35e-08	0.18	0.854	-7.72e-08	9.32e-08
interest_rate	-.0565489	.0336889	-1.68	0.093	-.122578	.0094802
debt	-.0106254	.011317	-0.94	0.348	-.0328063	.0115556
deficit	-2.09e-07	1.22e-07	-1.71	0.087	-4.48e-07	3.02e-08
party_type						
National	-.5843649	.7439636	-0.79	0.432	-2.042507	.8737769
Provincial	-2.187278	7.152165	-0.31	0.760	-16.20526	11.83071
win_margin	.0007005	.0137995	0.05	0.960	-.0263461	.0277471
abstentionism	-.0174111	.025826	-0.67	0.500	-.0680291	.033207
pop_share014	.1130058	.0376566	3.00	0.003	.0392003	.1868113
pop_share65plus	-.0767569	.1464374	-0.52	0.600	-.3637689	.2102551
_cons	-13.21134	10.80117	-1.22	0.221	-34.38124	7.958568

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L2.l_rpc_rent_mef L2.L2.l_rpc_rent_mef L3.L2.l_rpc_rent_mef
  L4.L2.l_rpc_rent_mef L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex
  L4.2.sex L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp
  L2.gdp L3.gdp L4.gdp L2.interest_rate L2.debt L3.debt L4.debt L1.deficit
  L2.deficit L3.deficit L4.deficit L1.2bn.party_type L2.2bn.party_type
  L3.2bn.party_type L4.2bn.party_type L1.3.party_type L2.3.party_type
  L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin L3.win_margin
  L4.win_margin L1.abstentionism L2.abstentionism L3.abstentionism
  L4.abstentionism L1.pop_share014 L2.pop_share014 L3.pop_share014
  L4.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus
  L4.pop_share65plus L1.l_rpc_total_expenses L2.l_rpc_total_expenses
  L3.l_rpc_total_expenses L4.l_rpc_total_expenses
2, model(level):
  D.L.l_rpc_rent_mef D.L2.l_rpc_rent_mef D.elec_t D.Age D.2.sex D.k_12centers
  D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  cons

```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

[illegible][illegible]

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1:	z =	-4.7351	Prob > z =	0.0000
H0: no autocorrelation of order 2:	z =	0.7283	Prob > z =	0.4664

Generalized method of moments estimation

Fitting full model:

Step 1	$f(b) =$.12249907
Step 2	$f(b) =$.05580988

Fitting reduced model 2:

Step 1 $f(b) = 2.155e-23$

```

Group variable: mun_id           Number of obs   =      886
Time variable: year             Number of groups =       76

```

Moment conditions:	linear =	25	Obs per group:	min =	1
	nonlinear =	0		avg =	11.65789
	total =	25		max =	14

(Std. err. adjusted for 76 clusters in `mun_id`)

<code>l_rpc_publicity</code>	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
<code>l_rpc_publicity</code>						
<code>L1.</code>	.3600203	.0882647	4.08	0.000	.1870246	.533016
<code>elec_t</code>	-.0233566	.12461	-0.19	0.851	-.2675877	.2208745
<code>l_rpc_total_expenses</code>	1.278278	1.02834	1.24	0.214	-.7372321	3.293788
<code>Age</code>	-.0112209	.0210505	-0.53	0.594	-.0524791	.0300374
<code>sex</code>						
<code>Male</code>	-.0771648	.5149503	-0.15	0.881	-1.086449	.9321192
<code>k_12centers</code>	.0034555	.0060785	0.57	0.570	-.0084581	.0153692
<code>gdp</code>	-7.68e-08	6.09e-08	-1.26	0.207	-1.96e-07	4.26e-08
<code>interest_rate</code>	.0362001	.0446426	0.81	0.417	-.0512977	.123698
<code>debt</code>	-.0290836	.0186185	-1.56	0.118	-.0655752	.007408
<code>deficit</code>	-1.51e-09	2.82e-07	-0.01	0.996	-5.55e-07	5.52e-07
<code>party_type</code>						
<code>National</code>	-.9651391	1.438553	-0.67	0.502	-3.784651	1.854373
<code>Provincial</code>	12.15512	19.79881	0.61	0.539	-26.64983	50.96007
<code>win_margin</code>	.0173398	.0221014	0.78	0.433	-.0259782	.0606578
<code>abstentionism</code>	.0299612	.043817	0.68	0.494	-.0559186	.115841
<code>pop_share014</code>	.0225903	.0826869	0.27	0.785	-.1394731	.1846536
<code>pop_share65plus</code>	.6146778	.3309492	1.86	0.063	-.0339707	1.263326
<code>_cons</code>	-19.20809	17.83511	-1.08	0.281	-54.16426	15.74808

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
    L1.L1_rpc_publicity L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
    L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
    L1.abstentionism L1.pop_share014 L1.pop_share65plus L1.l_rpc_total_expenses
2, model(level):
    D.L1_rpc_publicity D.elec_t D.Age D.2.sex D.k_12centers D.gdp
    D.interest_rate D.debt D.deficit
3, model(level):
    _cons

```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(10)    =    4.2416
                                                        Prob > chi2 =    0.9358

```

```

2-step moment functions, 3-step weighting matrix      chi2(10)    =    5.9657
                                                        Prob > chi2 =    0.8181

```

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-5.5821** Prob > |z| = **0.0000**H0: no autocorrelation of order 2: z = **1.0284** Prob > |z| = **0.3038**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.37130447**Step 2 f(b) = **.29768202**

Fitting reduced model 2:

Step 1 f(b) = **.15157519**Group variable: **mun_id**Number of obs = **886**Time variable: **year**Number of groups = **76**

```

Moment conditions:    linear =    40    Obs per group:    min =    1
                    nonlinear =    0    avg =   11.65789
                    total =    40    max =    14

```

(Std. err. adjusted for 76 clusters in `mun_id`)

<code>l_rpc_publicity</code>	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
<code>l_rpc_publicity</code>						
L1.	.3748513	.0895652	4.19	0.000	.1993067	.5503958
elec_t	.0444885	.1027066	0.43	0.665	-.1568127	.2457896
<code>l_rpc_total_expenses</code>	.4321348	.8452766	0.51	0.609	-1.224577	2.088847
Age	-.0005486	.0170303	-0.03	0.974	-.0339274	.0328301
sex						
Male	-.0697335	.4021696	-0.17	0.862	-.8579714	.7185044
k_12centers	-.0017191	.0022951	-0.75	0.454	-.0062174	.0027792
gdp	-1.42e-08	5.28e-08	-0.27	0.788	-1.18e-07	8.92e-08
interest_rate	-.0159128	.0494695	-0.32	0.748	-.1128712	.0810457
debt	-.0187944	.0124181	-1.51	0.130	-.0431335	.0055446
deficit	-1.01e-07	1.69e-07	-0.59	0.552	-4.32e-07	2.31e-07
party_type						
National	-1.455251	1.531921	-0.95	0.342	-4.457761	1.547259
Provincial	7.483143	12.72827	0.59	0.557	-17.4638	32.43009
win_margin	.0129357	.0206368	0.63	0.531	-.0275116	.053383
abstentionism	.0037918	.0349319	0.11	0.914	-.0646734	.0722571
pop_share014	.0710572	.0476048	1.49	0.136	-.0222465	.164361
pop_share65plus	.2502319	.1398377	1.79	0.074	-.0238448	.5243087
_cons	-4.806702	13.78179	-0.35	0.727	-31.81851	22.20511

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L1_rpc_publicity L2.L1_rpc_publicity L1.Age L2.Age L1.2.sex L2.2.sex
  L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
  L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
  L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
  L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
  L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
  L1.l_rpc_total_expenses L2.l_rpc_total_expenses
2, model(level):
  D.L1_rpc_publicity D.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(25)      =    22.6238
                                                        Prob > chi2   =     0.5995

```

```

2-step moment functions, 3-step weighting matrix      chi2(25)      =    25.1489
                                                        Prob > chi2   =     0.4541

```

Arellano-Bond test for autocorrelation of the first-differenced residuals

```

H0: no autocorrelation of order 1:      z =    -5.6925   Prob > |z|   =     0.0000
H0: no autocorrelation of order 2:      z =     1.3735   Prob > |z|   =     0.1696

```

Generalized method of moments estimation

Fitting full model:

```

Step 1      f(b) =    .57860502
Step 2      f(b) =    .44601642

```

Fitting reduced model 2:

```

Step 1      f(b) =    .35520107

```

Group variable: `mun_id`

Number of obs = 886

Time variable: `year`

Number of groups = 76


```
chi2(52)      = 56.8171
Prob > chi2   = 0.3003
```

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-5.7378** Prob > |z| = **0.0000**
H0: no autocorrelation of order 2: z = **1.1570** Prob > |z| = **0.2473**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.15780451**

Step 2 f(b) = **.08315102**

Fitting reduced model 2:

Step 1 f(b) = **9.507e-20**

Group variable: **mun_id**

Number of obs = **789**

Time variable: **year**

Number of groups = **73**

Moment conditions: linear = **26** Obs per group: min = **1**
nonlinear = **0** avg = **10.80822**
total = **26** max = **13**

(Std. err. adjusted for **73** clusters in **mun_id**)

l_rpc_publicity	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_publicity						
L1.	.4224212	.0887722	4.76	0.000	.2484309	.5964114
L2.	.0687293	.0843243	0.82	0.415	-.0965434	.234002
elec_t	.0308807	.1065532	0.29	0.772	-.1779597	.2397211
l_rpc_total_expenses	.1819639	.5899069	0.31	0.758	-.9742323	1.33816
Age	.0015895	.0192891	0.08	0.934	-.0362164	.0393953
sex						
Male	-.1266892	.3350477	-0.38	0.705	-.7833706	.5299922
k_12centers	.0029257	.0045029	0.65	0.516	-.0058997	.0117512
gdp	-6.82e-08	6.13e-08	-1.11	0.265	-1.88e-07	5.18e-08
interest_rate	.0285094	.0463819	0.61	0.539	-.0623975	.1194163
debt	-.0116287	.0156165	-0.74	0.456	-.0422365	.018979
deficit	-1.33e-08	1.98e-07	-0.07	0.946	-4.01e-07	3.74e-07
party_type						
National	-.5417783	.7121065	-0.76	0.447	-1.937481	.8539248
Provincial	-5.054295	15.80599	-0.32	0.749	-36.03346	25.92487
win margin	.0134024	.0163141	0.82	0.411	-.0185726	.0453774
abstentionism	-.0048251	.0316066	-0.15	0.879	-.0667729	.0571226
pop_share014	.0456854	.0632911	0.72	0.470	-.078363	.1697337
pop_share65plus	.5275657	.2227266	2.37	0.018	.0910296	.9641019
_cons	-2.869681	9.598846	-0.30	0.765	-21.68307	15.94371

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.l_rpc_publicity L1.Age L1.2.sex L1.k_12centers L1.gdp
L1.interest_rate L1.debt L1.deficit L1.2bn.party_type L1.3.party_type
L1.win_margin L1.abstentionism L1.pop_share014 L1.pop_share65plus
L1.l_rpc_total_expenses

2, model(level):

D.L.l_rpc_publicity D.L2.l_rpc_publicity D.elec_t D.Age D.2.sex
D.k_12centers D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(10) = **6.0700**
Prob > chi2 = **0.8093**

2-step moment functions, 3-step weighting matrix chi2(10) = **7.4977**
Prob > chi2 = **0.6778**

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-5.6877** Prob > |z| = **0.0000**
H0: no autocorrelation of order 2: z = **0.0335** Prob > |z| = **0.9733**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.35099294**

Step 2 f(b) = **.28797765**

Fitting reduced model 2:

Step 1 f(b) = **.11495112**

Group variable: **mun_id**

Number of obs = **789**

Time variable: **year**

Number of groups = **73**

Moment conditions: linear = **41**

Obs per group: min = **1**

nonlinear = **0**

avg = **10.80822**

total = **41**

max = **13**

(Std. err. adjusted for **73** clusters in **mun_id**)

l_rpc_publicity	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_publicity						
L1.	.427382	.0867877	4.92	0.000	.2572812	.5974828
L2.	.0825612	.1059936	0.78	0.436	-.1251825	.290305
elec_t	.0073367	.1159404	0.06	0.950	-.2199023	.2345757
l_rpc_total_expenses	-.4674584	.5239443	-0.89	0.372	-1.49437	.5594535
Age	.0057109	.021986	0.26	0.795	-.037381	.0488027
sex						
Male	-.5078332	.3626877	-1.40	0.161	-1.218688	.2030217
k_12centers	-.0004441	.0029193	-0.15	0.879	-.0061659	.0052777
gdp	2.20e-08	3.66e-08	0.60	0.549	-4.98e-08	9.38e-08
interest_rate	-.0207555	.0379637	-0.55	0.585	-.0951629	.0536519
debt	-.0260574	.0130629	-1.99	0.046	-.0516602	-.0004546
deficit	-3.83e-08	2.06e-07	-0.19	0.852	-4.41e-07	3.65e-07
party_type						
National	-1.340787	.9406271	-1.43	0.154	-3.184383	.5028077
Provincial	.4514112	12.59028	0.04	0.971	-24.22508	25.12791
win_margin	.01698	.0175495	0.97	0.333	-.0174164	.0513763
abstentionism	-.0238162	.0308132	-0.77	0.440	-.084209	.0365766
pop_share014	.0815993	.0555284	1.47	0.142	-.0272345	.190433
pop_share65plus	.2513558	.1512966	1.66	0.097	-.0451801	.5478916
_cons	9.08727	7.846602	1.16	0.247	-6.291786	24.46633

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.l_rpc_publicity L2.L2.l_rpc_publicity L1.Age L2.Age L1.2.sex L2.2.sex
L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
L1.l_rpc_total_expenses L2.l_rpc_total_expenses

2, model(level):

D.L.l_rpc_publicity D.L2.l_rpc_publicity D.elec_t D.Age D.2.sex
D.k_12centers D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix

chi2(25) = **21.0224**

Prob > chi2 = **0.6914**

2-step moment functions, 3-step weighting matrix chi2(25) = 21.8749
 Prob > chi2 = 0.6430

Arellano-Bond test for autocorrelation of the first-differenced residuals
 H0: no autocorrelation of order 1: z = -5.5619 Prob > |z| = 0.0000
 H0: no autocorrelation of order 2: z = 0.2353 Prob > |z| = 0.8140

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .63678399
 Step 2 f(b) = .55028113

Fitting reduced model 2:

Step 1 f(b) = .31968184

Group variable: **mun_id** Number of obs = 789
 Time variable: **year** Number of groups = 73

Moment conditions: linear = 56 Obs per group: min = 1
 nonlinear = 0 avg = 10.80822
 total = 56 max = 13

(Std. err. adjusted for 73 clusters in **mun_id**)

l_rpc_publicity	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_publicity						
L1.	.4125126	.0767705	5.37	0.000	.2620451	.56298
L2.	.1192294	.1105503	1.08	0.281	-.0974452	.3359041
elec_t	.0374376	.1165333	0.32	0.748	-.1909635	.2658386
l_rpc_total_expenses	-.1916579	.7787624	-0.25	0.806	-1.718004	1.334688
Age	-.0221515	.0171471	-1.29	0.196	-.0557593	.0114562
sex						
Male	-.5261585	.3877591	-1.36	0.175	-1.286152	.2338353
k_12centers	-.0026413	.002955	-0.89	0.371	-.008433	.0031504
gdp	4.20e-08	4.62e-08	0.91	0.362	-4.84e-08	1.33e-07
interest_rate	-.0507501	.043635	-1.16	0.245	-.1362731	.0347729
debt	-.0273317	.0148217	-1.84	0.065	-.0563816	.0017182
deficit	-1.11e-07	1.76e-07	-0.63	0.529	-4.56e-07	2.34e-07
party_type						
National	-1.75876	.9346152	-1.88	0.060	-3.590572	.0730524
Provincial	2.961636	10.40781	0.28	0.776	-17.43729	23.36057
win_margin	-.0000292	.018531	-0.00	0.999	-.0363493	.0362908
abstentionism	-.019611	.0352221	-0.56	0.578	-.088645	.0494231
pop_share014	.0863641	.0592066	1.46	0.145	-.0296788	.202407
pop_share65plus	.0253152	.1294964	0.20	0.845	-.228493	.2791234
_cons	7.916111	11.61303	0.68	0.495	-14.84501	30.67723

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.l_rpc_publicity L2.L2.l_rpc_publicity L3.L2.l_rpc_publicity L1.Age
 L2.Age L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
 L3.k_12centers L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate
 L3.interest_rate L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit
 L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L1.3.party_type
 L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
 L1.abstentionism L2.abstentionism L3.abstentionism L1.pop_share014
 L2.pop_share014 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus
 L3.pop_share65plus L1.l_rpc_total_expenses L2.l_rpc_total_expenses
 L3.l_rpc_total_expenses

2, model(level):

D.L.l_rpc_publicity D.L2.l_rpc_publicity D.elec_t D.Age D.2.sex
 D.k_12centers D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(40) = 40.1705
Prob > chi2 = 0.4627

2-step moment functions, 3-step weighting matrix chi2(40) = 53.2007
Prob > chi2 = 0.0790

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -5.2294 Prob > |z| = 0.0000
H0: no autocorrelation of order 2: z = -0.2384 Prob > |z| = 0.8116

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .74445412
Step 2 f(b) = .61961914

Fitting reduced model 2:

Step 1 f(b) = .37714306

Group variable: **mun_id** Number of obs = 789
Time variable: **year** Number of groups = 73

Moment conditions: linear = 67 Obs per group: min = 1
 nonlinear = 0 avg = 10.80822
 total = 67 max = 13

(Std. err. adjusted for 73 clusters in **mun_id**)

l_rpc_publicity	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_publicity						
L1.	.4030632	.0739813	5.45	0.000	.2580625	.5480639
L2.	.0976601	.1050429	0.93	0.353	-.1082203	.3035405
elec_t	-.0164533	.1020197	-0.16	0.872	-.2164082	.1835016
l_rpc_total_expenses	-.134842	.7345277	-0.18	0.854	-1.57449	1.304806
Age	-.0247391	.0160652	-1.54	0.124	-.0562262	.0067481
sex						
Male	-.4875655	.3438161	-1.42	0.156	-1.161433	.1863017
k_12centers	-.0030871	.0028034	-1.10	0.271	-.0085817	.0024074
gdp	5.06e-08	5.81e-08	0.87	0.384	-6.32e-08	1.64e-07
interest_rate	-.0616961	.0428691	-1.44	0.150	-.145718	.0223258
debt	-.0276418	.0152782	-1.81	0.070	-.0575866	.002303
deficit	-6.96e-08	1.37e-07	-0.51	0.612	-3.38e-07	1.99e-07
party_type						
National	-1.953762	.8262624	-2.36	0.018	-3.573207	-.3343177
Provincial	4.893728	9.306965	0.53	0.599	-13.34759	23.13504
win_margin	-.0067119	.0156537	-0.43	0.668	-.0373926	.0239687
abstentionism	-.0038086	.0313766	-0.12	0.903	-.0653056	.0576884
pop_share014	.0700807	.0533739	1.31	0.189	-.0345301	.1746915
pop_share65plus	-.0164802	.1157423	-0.14	0.887	-.243331	.2103705
_cons	7.134763	10.26198	0.70	0.487	-12.97835	27.24787

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.1_rpc_publicity L2.L2.1_rpc_publicity L3.L2.1_rpc_publicity
L4.L2.1_rpc_publicity L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex
L3.2.sex L4.2.sex L1.k_12centers L2.k_12centers L3.k_12centers
L4.k_12centers L1.gdp L2.gdp L3.gdp L4.gdp L2.interest_rate L2.debt L3.debt
L4.debt L1.deficit L2.deficit L3.deficit L4.deficit L1.2bn.party_type
L2.2bn.party_type L3.2bn.party_type L4.2bn.party_type L1.3.party_type
L2.3.party_type L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin
L3.win_margin L4.win_margin L1.abstentionism L2.abstentionism
L3.abstentionism L4.abstentionism L1.pop_share014 L2.pop_share014
L3.pop_share014 L4.pop_share014 L1.pop_share65plus L2.pop_share65plus

```

L3.pop_share65plus L4.pop_share65plus L1.l_rpc_total_expenses
L2.l_rpc_total_expenses L3.l_rpc_total_expenses L4.l_rpc_total_expenses
2, model(level):
  D.L1.l_rpc_publicity D.L2.l_rpc_publicity D.elec_t D.Age D.2.sex
  D.k_12centers D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(51) = **45.2322**
Prob > chi2 = **0.7011**

2-step moment functions, 3-step weighting matrix chi2(51) = **59.6506**
Prob > chi2 = **0.1901**

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = **-5.4706** Prob > |z| = **0.0000**
H0: no autocorrelation of order 2: z = **0.1582** Prob > |z| = **0.8743**

Generalized method of moments estimation

Fitting full model:
Step 1 f(b) = **.27636877**
Step 2 f(b) = **.27201773**

Fitting reduced model 2:
Step 1 f(b) = **1.968e-22**

Group variable: **mun_id** Number of obs = **1000**
Time variable: **year** Number of groups = **80**

Moment conditions: linear = **25** Obs per group: min = **1**
 nonlinear = **0** avg = **12.5**
 total = **25** max = **14**

(Std. err. adjusted for **80** clusters in **mun_id**)

l_rpc_activities	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_activities						
L1.	.1831981	.0805478	2.27	0.023	.0253272	.341069
elec_t	.4235416	.1413875	3.00	0.003	.1464272	.7006561
l_rpc_total_expenses	-1.341449	.5048622	-2.66	0.008	-2.330961	-.3519376
Age	-.0052918	.025744	-0.21	0.837	-.0557491	.0451655
sex						
Male	.0385573	.3258986	0.12	0.906	-.6001922	.6773068
k_12centers	-.0001539	.0045587	-0.03	0.973	-.0090887	.008781
gdp	1.53e-07	3.83e-08	3.99	0.000	7.79e-08	2.28e-07
interest_rate	.009051	.0395132	0.23	0.819	-.0683934	.0864954
debt	-.051666	.0207795	-2.49	0.013	-.0923931	-.0109389
deficit	-8.33e-09	2.99e-07	-0.03	0.978	-5.94e-07	5.77e-07
party_type						
National	-.9851523	1.612563	-0.61	0.541	-4.145717	2.175413
Provincial	-21.06761	19.08005	-1.10	0.270	-58.46381	16.32859
win_margin	.0433802	.0321745	1.35	0.178	-.0196807	.1064411
abstentionism	-.1213815	.0610642	-1.99	0.047	-.2410652	-.0016977
pop_share014	.0894905	.0802562	1.12	0.265	-.0678089	.2467898
pop_share65plus	-.3803206	.4826936	-0.79	0.431	-1.326383	.5657414
_cons	32.34129	11.23841	2.88	0.004	10.31442	54.36816

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L1.l_rpc_activities L1.Age L1.2.sex L1.k_12centers L1.gdp
  L1.interest_rate L1.debt L1.deficit L1.2bn.party_type L1.3.party_type
  L1.win_margin L1.abstentionism L1.pop_share014 L1.pop_share65plus

```

```

L1.l_rpc_total_expenses
2, model(level):
  D.L1_rpc_activities D.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(10)      =    21.7614
                                                         Prob > chi2    =    0.0164

```

```

2-step moment functions, 3-step weighting matrix      chi2(10)      =    26.1586
                                                         Prob > chi2    =    0.0035

```

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = **-3.9338** Prob > |z| = **0.0001**
H0: no autocorrelation of order 2: z = **1.4140** Prob > |z| = **0.1574**

Generalized method of moments estimation

```

Fitting full model:
Step 1          f(b) =    .549882
Step 2          f(b) =    .48378981

```

```

Fitting reduced model 2:
Step 1          f(b) =    .36358933

```

```

Group variable: mun_id          Number of obs      =    1000
Time variable: year            Number of groups   =     80

```

```

Moment conditions:      linear =    40      Obs per group:   min =     1
                       nonlinear =    0      avg          =   12.5
                       total   =    40      max          =    14

```

(Std. err. adjusted for 80 clusters in mun_id)

l_rpc_activities	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_activities						
L1.	.2629966	.0881896	2.98	0.003	.0901481	.435845
elec_t	.5531559	.1030911	5.37	0.000	.351101	.7552108
l_rpc_total_expenses	-.4762661	.6511746	-0.73	0.465	-1.752545	.8000128
Age	-.0229885	.020139	-1.14	0.254	-.0624602	.0164832
sex						
Male	.1983818	.323243	0.61	0.539	-.4351628	.8319264
k_12centers	.0017404	.0042089	0.41	0.679	-.0065089	.0099897
gdp	1.28e-07	4.23e-08	3.02	0.003	4.47e-08	2.10e-07
interest_rate	-.027993	.031382	-0.89	0.372	-.0895005	.0335146
debt	-.0319665	.0130335	-2.45	0.014	-.0575116	-.0064214
deficit	-4.62e-07	1.62e-07	-2.86	0.004	-7.79e-07	-1.45e-07
party_type						
National	-.2607717	2.094009	-0.12	0.901	-4.364953	3.84341
Provincial	-12.49456	12.73178	-0.98	0.326	-37.44839	12.45928
win_margin	.0618916	.0210135	2.95	0.003	.0207059	.1030772
abstentionism	-.1276123	.0457748	-2.79	0.005	-.2173292	-.0378953
pop_share014	.1356136	.0711968	1.90	0.057	-.0039296	.2751567
pop_share65plus	-.6754684	.2185157	-3.09	0.002	-1.103751	-.2471855
_cons	19.32514	8.963503	2.16	0.031	1.757	36.89329

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L1_rpc_activities L2.L1_rpc_activities L1.Age L2.Age L1.2.sex L2.2.sex
  L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
  L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
  L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin

```

```

L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
L1.l_rpc_total_expenses L2.l_rpc_total_expenses
2, model(level):
  D.L.l_rpc_activities D.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(25) = **38.7032**
Prob > chi2 = **0.0394**

2-step moment functions, 3-step weighting matrix chi2(25) = **44.9018**
Prob > chi2 = **0.0086**

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = **-5.0950** Prob > |z| = **0.0000**
H0: no autocorrelation of order 2: z = **2.6502** Prob > |z| = **0.0080**

Generalized method of moments estimation

Fitting full model:
Step 1 f(b) = **.81414297**
Step 2 f(b) = **.6283229**

Fitting reduced model 2:
Step 1 f(b) = **.551618**

Group variable: **mun_id** Number of obs = **1000**
Time variable: **year** Number of groups = **80**

Moment conditions: linear = **55** Obs per group: min = **1**
 nonlinear = **0** avg = **12.5**
 total = **55** max = **14**

(Std. err. adjusted for **80** clusters in **mun_id**)

l_rpc_activities	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_activities						
L1.	.2177937	.0846697	2.57	0.010	.0518442	.3837432
elec_t	.5298165	.1088497	4.87	0.000	.3164751	.743158
l_rpc_total_expenses	-.5138833	.5711715	-0.90	0.368	-1.633359	.6055924
Age	-.0113743	.0155335	-0.73	0.464	-.0418194	.0190708
sex						
Male	.1165538	.2989983	0.39	0.697	-.4694721	.7025797
k_12centers	.0008591	.0038994	0.22	0.826	-.0067836	.0085018
gdp	1.30e-07	4.02e-08	3.23	0.001	5.11e-08	2.09e-07
interest_rate	-.0029723	.0329557	-0.09	0.928	-.0675642	.0616197
_debt	-.0377482	.0120781	-3.13	0.002	-.0614209	-.0140755
deficit	-4.37e-07	1.51e-07	-2.90	0.004	-7.32e-07	-1.41e-07
party_type						
National	-.4803627	1.302795	-0.37	0.712	-3.033793	2.073068
Provincial	-9.452017	11.33382	-0.83	0.404	-31.66589	12.76185
win_margin	.0668996	.0198992	3.36	0.001	.0278979	.1059013
abstentionism	-.1066586	.0405186	-2.63	0.008	-.1860735	-.0272437
pop_share014	.1141237	.0650651	1.75	0.079	-.0134015	.2416489
pop_share65plus	-.5449395	.1599109	-3.41	0.001	-.8583591	-.2315199
_cons	18.35959	8.546168	2.15	0.032	1.609407	35.10977

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L.l_rpc_activities L2.L.l_rpc_activities L3.L.l_rpc_activities L1.Age
  L2.Age L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers

```

```

L3.k_12centers L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate
L3.interest_rate L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit
L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L1.3.party_type
L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
L1.abstentionism L2.abstentionism L3.abstentionism L1.pop_share014
L2.pop_share014 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus
L3.pop_share65plus L1.l_rpc_total_expenses L2.l_rpc_total_expenses
L3.l_rpc_total_expenses
2, model(level):
  D.L1_rpc_activities D.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(40)    =    50.2658
                                                        Prob > chi2 =    0.1281

```

```

2-step moment functions, 3-step weighting matrix      chi2(40)    =    55.2177
                                                        Prob > chi2 =    0.0552

```

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = -4.9254 Prob > |z| = 0.0000
H0: no autocorrelation of order 2: z = 2.5221 Prob > |z| = 0.0117

Generalized method of moments estimation

```

Fitting full model:
Step 1          f(b) =   1.0713772
Step 2          f(b) =   .72718936

```

```

Fitting reduced model 2:
Step 1          f(b) =   .67622608

```

```

Group variable:  mun_id          Number of obs      =    1000
Time variable:  year            Number of groups   =     80

```

```

Moment conditions:   linear =    67      Obs per group:   min =     1
                    nonlinear =    0      avg =    12.5
                    total =    67      max =    14

```

(Std. err. adjusted for 80 clusters in mun_id)

l_rpc_activities	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_activities						
L1.	.210693	.0769749	2.74	0.006	.059825	.3615609
elec_t	.437742	.0941168	4.65	0.000	.2532765	.6222074
l_rpc_total_expenses	-.4606885	.5558394	-0.83	0.407	-1.550114	.6287366
Age	-.0110679	.0155061	-0.71	0.475	-.0414593	.0193235
sex						
Male	.1162448	.2979506	0.39	0.696	-.4677276	.7002172
k_12centers	-.002143	.0034711	-0.62	0.537	-.0089462	.0046603
gdp	1.48e-07	3.73e-08	3.98	0.000	7.52e-08	2.21e-07
interest_rate	-.0210085	.0325513	-0.65	0.519	-.0848078	.0427909
debt	-.0378537	.0108397	-3.49	0.000	-.0590991	-.0166084
deficit	-3.90e-07	1.50e-07	-2.60	0.009	-6.83e-07	-9.64e-08
party_type						
National	-.5132525	1.298336	-0.40	0.693	-3.057945	2.03144
Provincial	-4.81988	9.83966	-0.49	0.624	-24.10526	14.4655
win_margin	.0507281	.0173331	2.93	0.003	.0167558	.0847005
abstentionism	-.0750682	.035315	-2.13	0.034	-.1442843	-.0058522
pop_share014	.1261841	.0585279	2.16	0.031	.0114714	.2408967
pop_share65plus	-.5616157	.157211	-3.57	0.000	-.8697435	-.2534878
_cons	15.54947	8.266627	1.88	0.060	-.6528178	31.75177

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L1_rpc_activities L2.L1_rpc_activities L3.L1_rpc_activities
  L4.L1_rpc_activities L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex
  L3.2.sex L4.2.sex L1.k_12centers L2.k_12centers L3.k_12centers
  L4.k_12centers L1.gdp L2.gdp L3.gdp L4.gdp L2.interest_rate L1.debt L2.debt
  L3.debt L4.debt L1.deficit L2.deficit L3.deficit L4.deficit
  L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L4.2bn.party_type
  L1.3.party_type L2.3.party_type L3.3.party_type L4.3.party_type
  L1.win_margin L2.win_margin L3.win_margin L4.win_margin L1.abstentionism
  L2.abstentionism L3.abstentionism L4.abstentionism L1.pop_share014
  L2.pop_share014 L3.pop_share014 L4.pop_share014 L1.pop_share65plus
  L2.pop_share65plus L3.pop_share65plus L4.pop_share65plus
  L1.l_rpc_total_expenses L2.l_rpc_total_expenses L3.l_rpc_total_expenses
  L4.l_rpc_total_expenses
2, model(level):
  D.L1_rpc_activities D.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

```
2-step moment functions, 2-step weighting matrix      chi2(52)      =    58.1751
                                                         Prob > chi2    =    0.2585

2-step moment functions, 3-step weighting matrix      chi2(52)      =    65.2337
                                                         Prob > chi2    =    0.1028
```

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = **-5.2469** Prob > |z| = **0.0000**
H0: no autocorrelation of order 2: z = **2.1732** Prob > |z| = **0.0298**

Generalized method of moments estimation

```
Fitting full model:
Step 1      f(b) = .15813804
Step 2      f(b) = .15975075
```

```
Fitting reduced model 2:
Step 1      f(b) = 6.882e-21
```

```
Group variable: mun_id      Number of obs      =    906
Time variable: year      Number of groups    =    79
```

```
Moment conditions:      linear =    26      Obs per group:      min =    3
                        nonlinear =    0      avg = 11.46835
                        total =    26      max =    13
```

(Std. err. adjusted for **79** clusters in **mun_id**)

		WC-Robust				
	Coefficient	std. err.	z	P> z	[95% conf. interval]	
l_rpc_activities						
l_rpc_activities						
L1.	.4588968	.0957182	4.79	0.000	.2712925	.6465011
L2.	.2241269	.0593815	3.77	0.000	.1077412	.3405125
elec_t	.4763437	.113008	4.22	0.000	.2548521	.6978354
l_rpc_total_expenses	-.5586439	.4992565	-1.12	0.263	-1.537169	.4198809
Age	-.0087897	.0149184	-0.59	0.556	-.0380292	.0204499
sex						
Male	.4936724	.2954717	1.67	0.095	-.0854415	1.072786
k_12centers	-.0037907	.0031184	-1.22	0.224	-.0099026	.0023212
gdp	2.27e-07	3.99e-08	5.69	0.000	1.49e-07	3.06e-07
interest_rate	-.1021909	.0382042	-2.67	0.007	-.1770697	-.0273121
debt	-.0781722	.0142096	-5.50	0.000	-.1060225	-.0503218
deficit	-3.74e-07	2.05e-07	-1.82	0.069	-7.76e-07	2.89e-08

party_type						
National	-.3623206	1.261796	-0.29	0.774	-2.835395	2.110754
Provincial	-7.611514	10.9546	-0.69	0.487	-29.08213	13.8591
win_margin	.0515489	.0228932	2.25	0.024	.0066791	.0964188
abstentionism	-.0991374	.0491492	-2.02	0.044	-.195468	-.0028068
pop_share014	.1602148	.0629657	2.54	0.011	.0368043	.2836254
pop_share65plus	-.8332033	.244143	-3.41	0.001	-1.311715	-.3546919
_cons	17.47834	9.800248	1.78	0.075	-1.729798	36.68647

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L2.l_rpc_activities L1.Age L1.2.sex L1.k_12centers L1.gdp
  L1.interest_rate L1.debt L1.deficit L1.2bn.party_type L1.3.party_type
  L1.win_margin L1.abstentionism L1.pop_share014 L1.pop_share65plus
  L1.l_rpc_total_expenses
2, model(level):
  D.L.l_rpc_activities D.L2.l_rpc_activities D.elec_t D.Age D.2.sex
  D.k_12centers D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(10) = 12.6203
Prob > chi2 = 0.2457

2-step moment functions, 3-step weighting matrix chi2(10) = 13.3609
Prob > chi2 = 0.2042

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -4.8355 Prob > |z| = 0.0000
H0: no autocorrelation of order 2: z = -0.4216 Prob > |z| = 0.6733

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .29805028
Step 2 f(b) = .38446833

Fitting reduced model 2:

Step 1 f(b) = .23743435

Group variable: **mun_id** Number of obs = 906
Time variable: **year** Number of groups = 79

Moment conditions: linear = 41 Obs per group: min = 3
 nonlinear = 0 avg = 11.46835
 total = 41 max = 13

(Std. err. adjusted for 79 clusters in **mun_id**)

	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_activities						
l_rpc_activities						
L1.	.4616688	.1009632	4.57	0.000	.2637846	.659553
L2.	.2144753	.0519403	4.13	0.000	.1126743	.3162763
elec_t	.4278868	.0983932	4.35	0.000	.2350396	.6207339
l_rpc_total_expenses	-.3823806	.4191496	-0.91	0.362	-1.203899	.4391376
Age	-.0011315	.0160657	-0.07	0.944	-.0326198	.0303567
sex						
Male	.2493539	.225841	1.10	0.270	-.1932864	.6919941
k_12centers	-.0003268	.0021746	-0.15	0.881	-.004589	.0039354
gdp	1.92e-07	3.03e-08	6.34	0.000	1.33e-07	2.52e-07
interest_rate	-.0620115	.0321001	-1.93	0.053	-.1249264	.0009035
debt	-.0798129	.0114017	-7.00	0.000	-.1021599	-.0574659
deficit	-3.17e-07	1.46e-07	-2.17	0.030	-6.04e-07	-3.14e-08

party_type						
National	-1.329725	1.817084	-0.73	0.464	-4.891145	2.231694
Provincial	-8.180657	9.873394	-0.83	0.407	-27.53215	11.17084
win_margin	.0506536	.0183645	2.76	0.006	.0146598	.0866473
abstentionism	-.0404741	.0303614	-1.33	0.183	-.0999812	.0190331
pop_share014	.1126873	.0385939	2.92	0.004	.0370447	.1883299
pop_share65plus	-.4591134	.1356239	-3.39	0.001	-.7249313	-.1932955
_cons	10.82226	7.358145	1.47	0.141	-3.599441	25.24396

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L2.l_rpc_activities L2.L2.l_rpc_activities L1.Age L2.Age L1.2.sex
  L2.2.sex L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
  L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
  L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
  L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
  L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
  L1.l_rpc_total_expenses L2.l_rpc_total_expenses
2, model(level):
  D.L1.l_rpc_activities D.L2.l_rpc_activities D.elec_t D.Age D.2.sex
  D.k_12centers D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(25) = 30.3730
 Prob > chi2 = 0.2106

2-step moment functions, 3-step weighting matrix chi2(25) = 33.4119
 Prob > chi2 = 0.1211

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -4.8291 Prob > |z| = 0.0000
 H0: no autocorrelation of order 2: z = -0.6471 Prob > |z| = 0.5176

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .70421529
 Step 2 f(b) = .64715983

Fitting reduced model 2:

Step 1 f(b) = .50906118

Group variable: **mun_id** Number of obs = 906
 Time variable: **year** Number of groups = 79

Moment conditions: linear = 56 Obs per group: min = 3
 nonlinear = 0 avg = 11.46835
 total = 56 max = 13

(Std. err. adjusted for 79 clusters in **mun_id**)

l_rpc_activities	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_activities						
L1.	.3380144	.1011365	3.34	0.001	.1397905	.5362383
L2.	.1293826	.0512314	2.53	0.012	.0289708	.2297944
elec_t	.2194601	.0853526	2.57	0.010	.0521721	.3867482
l_rpc_total_expenses	-.0511403	.3547277	-0.14	0.885	-.7463939	.6441133
Age	.0120101	.014767	0.81	0.416	-.0169327	.040953
sex						
Male	.2043709	.2487803	0.82	0.411	-.2832295	.6919712
k_12centers	-.0004394	.0021707	-0.20	0.840	-.0046939	.003815
gdp	1.92e-07	2.99e-08	6.42	0.000	1.33e-07	2.51e-07
interest_rate	-.0258236	.0324798	-0.80	0.427	-.0894829	.0378357

debt	-.0852691	.0117697	-7.24	0.000	-.1083372	-.062201
deficit	-2.49e-07	1.37e-07	-1.82	0.069	-5.19e-07	1.98e-08
party_type						
National	-.5961003	1.637893	-0.36	0.716	-3.806312	2.614112
Provincial	-.2489096	7.939457	-0.03	0.975	-15.80996	15.31214
win_margin	.0348501	.012842	2.71	0.007	.0096801	.06002
abstentionism	-.0119582	.0241991	-0.49	0.621	-.0593875	.0354711
pop_share014	.0823298	.0393234	2.09	0.036	.0052573	.1594023
pop_share65plus	-.2493053	.0958404	-2.60	0.009	-.4371491	-.0614615
_cons	3.29724	6.00149	0.55	0.583	-8.465465	15.05995

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.1_rpc_activities L2.L2.1_rpc_activities L3.L2.1_rpc_activities L1.Age
 L2.Age L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
 L3.k_12centers L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate
 L3.interest_rate L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit
 L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L1.3.party_type
 L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
 L1.abstentionism L2.abstentionism L3.abstentionism L1.pop_share014
 L2.pop_share014 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus
 L3.pop_share65plus L1.l_rpc_total_expenses L2.l_rpc_total_expenses
 L3.l_rpc_total_expenses

2, model(level):

D.L.1_rpc_activities D.L2.1_rpc_activities D.elec_t D.Age D.2.sex
 D.k_12centers D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(40) = 51.1256
 Prob > chi2 = 0.1117

2-step moment functions, 3-step weighting matrix chi2(40) = 59.9563
 Prob > chi2 = 0.0221

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -4.4769 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = -0.4943 Prob > |z| = 0.6211

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .82431045

Step 2 f(b) = .74553917

Fitting reduced model 2:

Step 1 f(b) = .65953427

Group variable: mun_id

Number of obs = 906

Time variable: year

Number of groups = 79

Moment conditions: linear = 67 Obs per group: min = 3
 nonlinear = 0 avg = 11.46835
 total = 67 max = 13

(Std. err. adjusted for 79 clusters in mun_id)

l_rpc_activities	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_activities						
L1.	.3439749	.0983065	3.50	0.000	.1512977	.5366521
L2.	.1210204	.0521965	2.32	0.020	.0187171	.2233238
elec_t	.2053136	.0837366	2.45	0.014	.0411929	.3694344
l_rpc_total_expenses	.0648342	.4211408	0.15	0.878	-.7605866	.8902551
Age	.0128937	.0158951	0.81	0.417	-.0182601	.0440476

sex						
Male	.2039081	.2388996	0.85	0.393	-.2643265	.6721427
k_12centers	-.0008451	.0024115	-0.35	0.726	-.0055717	.0038814
gdp	1.97e-07	3.01e-08	6.54	0.000	1.38e-07	2.56e-07
interest_rate	-.0335495	.0317249	-1.06	0.290	-.0957292	.0286301
debt	-.0827657	.0119701	-6.91	0.000	-.1062267	-.0593048
deficit	-2.12e-07	1.41e-07	-1.50	0.133	-4.88e-07	6.47e-08
party_type						
National	-1.270113	1.71372	-0.74	0.459	-4.628943	2.088718
Provincial	-3.494698	7.145901	-0.49	0.625	-17.50041	10.51101
win_margin	.0237004	.0137174	1.73	0.084	-.0031852	.0505861
abstentionism	-.007859	.0303872	-0.26	0.796	-.0674168	.0516988
pop_share014	.1048471	.0386813	2.71	0.007	.0290331	.1806611
pop_share65plus	-.2845054	.0990169	-2.87	0.004	-.4785749	-.0904359
_cons	1.559497	6.923376	0.23	0.822	-12.01007	15.12907

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
```

L1.L2.1_rpc_activities L2.L2.1_rpc_activities L3.L2.1_rpc_activities
 L4.L2.1_rpc_activities L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex
 L3.2.sex L4.2.sex L1.k_12centers L2.k_12centers L3.k_12centers
 L4.k_12centers L1.gdp L2.gdp L3.gdp L4.gdp L2.interest_rate L2.debt L3.debt
 L4.debt L1.deficit L2.deficit L3.deficit L4.deficit L1.2bn.party_type
 L2.2bn.party_type L3.2bn.party_type L4.2bn.party_type L1.3.party_type
 L2.3.party_type L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin
 L3.win_margin L4.win_margin L1.abstentionism L2.abstentionism
 L3.abstentionism L4.abstentionism L1.pop_share014 L2.pop_share014
 L3.pop_share014 L4.pop_share014 L1.pop_share65plus L2.pop_share65plus
 L3.pop_share65plus L4.pop_share65plus L1.1_rpc_total_expenses
 L2.1_rpc_total_expenses L3.1_rpc_total_expenses L4.1_rpc_total_expenses

```
2, model(level):
```

D.L1.rpc_activities D.L2.rpc_activities D.elec_t D.Age D.2.sex
D.k 12centers D.gdp D.interest_rate D.debt D.deficit

```
3, model(level):
```

cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

[illegible][illegible]

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: $z = -4.5558$ Prob > |z| = 0.0000

H0: no autocorrelation of order 1:	$z =$	1.3333	Prob > $ z $	0.1833
H0: no autocorrelation of order 2:	$z =$	-0.3959	Prob > $ z $	0.6921

Generalized method of moments estimation

Fitting full model:

```
Step 1          f(b) = .16103447
```

```
Step 2      f(b) = .08714234
```

Fitting reduced model 2:

Step 1 $f(b) = 5.315e-23$

```

Group variable: mun_id           Number of obs   =      860
Time variable: year             Number of groups =       79

```

Moment conditions:	linear =	25	Obs per group:	min =	1
	nonlinear =	0		avg =	10.88608
	total =	25		max =	14

(Std. err. adjusted for 79 clusters in **mun_id**)

l_rpc_main_bcl	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_main_bcl						
L1.	.4200946	.0822153	5.11	0.000	.2589555	.5812337
elec_t	.0412611	.1958007	0.21	0.833	-.3425012	.4250234
l_rpc_total_expenses	-.8939166	1.003777	-0.89	0.373	-2.861284	1.07345
Age	-.0270972	.0248532	-1.09	0.276	-.0758085	.0216141
sex						
Male	-.7614308	.5026327	-1.51	0.130	-1.746573	.2237111
k_12centers	-.0090688	.005697	-1.59	0.111	-.0202347	.0020971
gdp	5.00e-08	5.74e-08	0.87	0.383	-6.24e-08	1.62e-07
interest_rate	-.0231942	.0515471	-0.45	0.653	-.1242247	.0778363
debt	-.0300317	.0231182	-1.30	0.194	-.0753425	.0152791
deficit	1.61e-07	3.85e-07	0.42	0.676	-5.93e-07	9.15e-07
party_type						
National	-.1712501	2.049858	-0.08	0.933	-4.188898	3.846397
Provincial	27.48691	18.26875	1.50	0.132	-8.319186	63.293
win_margin	.0285831	.0202344	1.41	0.158	-.0110755	.0682417
abstentionism	-.0324249	.0576364	-0.56	0.574	-.1453902	.0805404
pop_share014	.019906	.0728995	0.27	0.785	-.1229744	.1627863
pop_share65plus	.0314541	.3786898	0.08	0.934	-.7107642	.7736724
_cons	20.94887	16.55969	1.27	0.206	-11.50753	53.40527

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
    L1.L1_rpc_main_bcl L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
    L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
    L1.abstentionism L1.pop_share014 L1.pop_share65plus L1.l_rpc_total_expenses
2, model(level):
    D.L1_rpc_main_bcl D.elec_t D.Age D.2.sex D.k_12centers D.gdp
    D.interest_rate D.debt D.deficit
3, model(level):
    _cons

```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(10)    =    6.8842
                                                        Prob > chi2 =    0.7363

```

```

2-step moment functions, 3-step weighting matrix      chi2(10)    =   25.8797
                                                        Prob > chi2 =    0.0039

```

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-6.2543** Prob > |z| = **0.0000**H0: no autocorrelation of order 2: z = **-0.2329** Prob > |z| = **0.8158**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.27348451**Step 2 f(b) = **.17998576**

Fitting reduced model 2:

Step 1 f(b) = **.07717489**Group variable: **mun_id**Number of obs = **860**Time variable: **year**Number of groups = **79**

```

Moment conditions:    linear =    40    Obs per group:    min =    1
                     nonlinear =    0                      avg =   10.88608
                     total =    40                      max =    14

```

(Std. err. adjusted for 79 clusters in `mun_id`)

<code>l_rpc_main_bcl</code>	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
<code>l_rpc_main_bcl</code> <code>L1.</code>	.3745891	.058492	6.40	0.000	.2599469	.4892312
<code>elec_t</code>	.0136765	.1409644	0.10	0.923	-.2626088	.2899617
<code>l_rpc_total_expenses</code>	-.219355	.6531873	-0.34	0.737	-1.499579	1.060869
<code>Age</code>	-.0196995	.022395	-0.88	0.379	-.063593	.0241939
<code>sex</code>						
<code>Male</code>	-.3532411	.4224136	-0.84	0.403	-1.181157	.4746743
<code>k_12centers</code>	-.0090203	.0035557	-2.54	0.011	-.0159893	-.0020514
<code>gdp</code>	3.45e-08	3.70e-08	0.93	0.351	-3.81e-08	1.07e-07
<code>interest_rate</code>	-.0229983	.0410363	-0.56	0.575	-.1034279	.0574313
<code>debt</code>	-.0072137	.0135824	-0.53	0.595	-.0338347	.0194073
<code>deficit</code>	-2.70e-07	2.04e-07	-1.32	0.187	-6.71e-07	1.31e-07
<code>party_type</code>						
<code>National</code>	-.4858615	2.347025	-0.21	0.836	-5.085946	4.114223
<code>Provincial</code>	29.75857	20.80013	1.43	0.153	-11.00894	70.52608
<code>win_margin</code>	.0170313	.0194643	0.88	0.382	-.0211181	.0551807
<code>abstentionism</code>	-.0065958	.0343322	-0.19	0.848	-.0738857	.060694
<code>pop_share014</code>	.044003	.0491808	0.89	0.371	-.0523895	.1403956
<code>pop_share65plus</code>	-.0937797	.2056761	-0.46	0.648	-.4968974	.3093381
<code>_cons</code>	8.043809	9.500689	0.85	0.397	-10.5772	26.66482

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L1_rpc_main_bcl L2.L1_rpc_main_bcl L1.Age L2.Age L1.2.sex L2.2.sex
  L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
  L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
  L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
  L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
  L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
  L1.l_rpc_total_expenses L2.l_rpc_total_expenses
2, model(level):
  D.L1_rpc_main_bcl D.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(25)      =    14.2189
                                                         Prob > chi2    =     0.9578

```

```

2-step moment functions, 3-step weighting matrix      chi2(25)      =    35.1609
                                                         Prob > chi2    =     0.0853

```

Arellano-Bond test for autocorrelation of the first-differenced residuals

```

H0: no autocorrelation of order 1:      z =    -5.9116      Prob > |z|    =     0.0000
H0: no autocorrelation of order 2:      z =    -0.2975      Prob > |z|    =     0.7661

```

Generalized method of moments estimation

Fitting full model:

```

Step 1      f(b) =    .63874375
Step 2      f(b) =    .39873681

```

Fitting reduced model 2:

```

Step 1      f(b) =    .2126168

```

Group variable: `mun_id`

Number of obs = 860

Time variable: `year`

Number of groups = 79

Moment conditions: linear = 55 Obs per group: min = 1
 nonlinear = 0 avg = 10.88608
 total = 55 max = 14

(Std. err. adjusted for 79 clusters in mun_id)

l_rpc_main_bcl	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_main_bcl						
L1.	.3493546	.0723019	4.83	0.000	.2076454	.4910638
elec_t	-.0222193	.1218431	-0.18	0.855	-.2610274	.2165887
l_rpc_total_expenses	-.3590904	.6856291	-0.52	0.600	-1.702899	.984718
Age	-.0254239	.0201398	-1.26	0.207	-.0648972	.0140495
sex						
Male	-.2397348	.3976351	-0.60	0.547	-1.019085	.5396157
k_12centers	-.0076971	.0025637	-3.00	0.003	-.0127218	-.0026724
gdp	3.53e-08	3.38e-08	1.04	0.297	-3.09e-08	1.01e-07
interest_rate	-.0194523	.0392813	-0.50	0.620	-.0964422	.0575377
debt	-.0095838	.011137	-0.84	0.399	-.0318686	.012701
deficit	-2.32e-07	1.78e-07	-1.31	0.191	-5.80e-07	1.16e-07
party_type						
National	1.892837	1.923267	0.98	0.325	-1.876696	5.662371
Provincial	14.81926	15.60399	0.95	0.342	-15.76401	45.40252
win_margin	.0178515	.0249084	0.72	0.474	-.0309682	.0666711
abstentionism	-.0429238	.0281607	-1.52	0.127	-.0981178	.0122701
pop_share014	.0508116	.040858	1.24	0.214	-.0292686	.1308918
pop_share65plus	-.0453946	.1204643	-0.38	0.706	-.2815004	.1907112
_cons	10.06696	9.107617	1.11	0.269	-7.783639	27.91756

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L.1_rpc_main_bcl L2.L.1_rpc_main_bcl L3.L.1_rpc_main_bcl L1.Age L2.Age
  L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
  L3.k_12centers L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate
  L3.interest_rate L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit
  L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L1.3.party_type
  L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
  L1.abstentionism L2.abstentionism L3.abstentionism L1.pop_share014
  L2.pop_share014 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus
  L3.pop_share65plus L1.l_rpc_total_expenses L2.l_rpc_total_expenses
  L3.l_rpc_total_expenses
2, model(level):
  D.L.1_rpc_main_bcl D.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(40) = 31.5002
 Prob > chi2 = 0.8293

2-step moment functions, 3-step weighting matrix chi2(40) = 36.9980
 Prob > chi2 = 0.6062

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -5.7630 Prob > |z| = 0.0000
 H0: no autocorrelation of order 2: z = -0.1230 Prob > |z| = 0.9021

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .91365437
 Step 2 f(b) = .56082033

Fitting reduced model 2:

Step 1 f(b) = .39646968

Group variable: **mun_id**

Number of obs = 860

Time variable: **year**

Number of groups = 79

Moment conditions:

linear =	67
nonlinear =	0
total =	67

Obs per group:

min =	1
avg =	10.88608
max =	14

(Std. err. adjusted for 79 clusters in **mun_id**)

l_rpc_main_bcl	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_main_bcl L1.	.3677128	.0654147	5.62	0.000	.2395023	.4959234
elec_t	-.0184828	.1124978	-0.16	0.869	-.2389744	.2020088
l_rpc_total_expenses	-.3805506	.688943	-0.55	0.581	-1.730854	.9697529
Age	-.0248616	.0200118	-1.24	0.214	-.064084	.0143609
sex						
Male	-.2397541	.4691014	-0.51	0.609	-1.159176	.6796677
k_12centers	-.0068537	.0030378	-2.26	0.024	-.0128077	-.0008998
gdp	3.45e-08	3.54e-08	0.97	0.330	-3.50e-08	1.04e-07
interest_rate	-.0454311	.041571	-1.09	0.274	-.1269087	.0360466
debt	-.0163664	.0112509	-1.45	0.146	-.0384177	.005685
deficit	-8.75e-08	1.77e-07	-0.49	0.621	-4.34e-07	2.59e-07
party_type						
National	1.90921	1.707595	1.12	0.264	-1.437614	5.256035
Provincial	11.70586	12.79392	0.91	0.360	-13.36977	36.78149
win_margin	.012559	.0275559	0.46	0.649	-.0414496	.0665676
abstentionism	-.042766	.0257845	-1.66	0.097	-.0933026	.0077706
pop_share014	.0379346	.0413232	0.92	0.359	-.0430575	.1189266
pop_share65plus	-.0245075	.1258248	-0.19	0.846	-.2711197	.2221047
_cons	11.07292	9.476802	1.17	0.243	-7.501268	29.64711

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L.1_rpc_main_bcl L2.L.1_rpc_main_bcl L3.L.1_rpc_main_bcl
 L4.L.1_rpc_main_bcl L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex
 L4.2.sex L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp
 L2.gdp L3.gdp L4.gdp L2.interest_rate L1.debt L2.debt L3.debt L4.debt
 L1.deficit L2.deficit L3.deficit L4.deficit L1.2bn.party_type
 L2.2bn.party_type L3.2bn.party_type L4.2bn.party_type L1.3.party_type
 L2.3.party_type L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin
 L3.win_margin L4.win_margin L1.abstentionism L2.abstentionism
 L3.abstentionism L4.abstentionism L1.pop_share014 L2.pop_share014
 L3.pop_share014 L4.pop_share014 L1.pop_share65plus L2.pop_share65plus
 L3.pop_share65plus L4.pop_share65plus L1.l_rpc_total_expenses
 L2.l_rpc_total_expenses L3.l_rpc_total_expenses L4.l_rpc_total_expenses

2, model(level):

D.L.1_rpc_main_bcl D.elec_t D.Age D.2.sex D.k_12centers D.gdp
 D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(52) = 44.3048
 Prob > chi2 = 0.7670

2-step moment functions, 3-step weighting matrix chi2(52) = 56.6548
 Prob > chi2 = 0.3056

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-5.8314** Prob > |z| = **0.0000**
H0: no autocorrelation of order 2: z = **-0.0318** Prob > |z| = **0.9746**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.11145249**

Step 2 f(b) = **.13004723**

Fitting reduced model 2:

Step 1 f(b) = **4.899e-23**

Group variable: **mun_id**

Number of obs = **754**

Time variable: **year**

Number of groups = **74**

Moment conditions: linear = **26** Obs per group: min = **1**
nonlinear = **0** avg = **10.18919**
total = **26** max = **13**

(Std. err. adjusted for **74** clusters in **mun_id**)

l_rpc_main_bcl	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_main_bcl						
L1.	.3658842	.0803357	4.55	0.000	.2084292	.5233393
L2.	.0246124	.0806714	0.31	0.760	-.1335006	.1827253
elec_t	-.0729006	.1799239	-0.41	0.685	-.425545	.2797437
l_rpc_total_expenses	-.300386	.6729738	-0.45	0.655	-1.61939	1.018618
Age	-.0098304	.0320585	-0.31	0.759	-.0726639	.0530032
sex						
Male	-.1880288	.5975145	-0.31	0.753	-1.359136	.9830781
k_12centers	-.0046337	.0053677	-0.86	0.388	-.0151542	.0058868
gdp	3.75e-08	5.57e-08	0.67	0.501	-7.17e-08	1.47e-07
interest_rate	-.009479	.0671892	-0.14	0.888	-.1411673	.1222093
debt	-.0345712	.0241604	-1.43	0.152	-.0819248	.0127823
deficit	6.93e-08	3.05e-07	0.23	0.821	-5.29e-07	6.68e-07
party_type						
National	1.558002	2.996242	0.52	0.603	-4.314525	7.430528
Provincial	26.38745	34.85966	0.76	0.449	-41.93623	94.71114
win margin	.0649701	.0488115	1.33	0.183	-.0306987	.160639
abstentionism	-.0221993	.0588626	-0.38	0.706	-.1375678	.0931692
pop_share014	.0069535	.0681774	0.10	0.919	-.1266718	.1405787
pop_share65plus	.1865715	.3141698	0.59	0.553	-.42919	.802333
_cons	7.500908	13.00103	0.58	0.564	-17.98064	32.98245

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.l_rpc_main_bcl L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate

L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin

L1.abstentionism L1.pop_share014 L1.pop_share65plus L1.l_rpc_total_expenses

2, model(level):

D.L.l_rpc_main_bcl D.L2.l_rpc_main_bcl D.elec_t D.Age D.2.sex D.k_12centers

D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(10) = **9.6235**
Prob > chi2 = **0.4741**

2-step moment functions, 3-step weighting matrix chi2(10) = **17.0353**
Prob > chi2 = **0.0736**

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = **-5.7649** Prob > |z| = **0.0000**
H0: no autocorrelation of order 2: z = **-0.4341** Prob > |z| = **0.6642**

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = **.30341253**
Step 2 f(b) = **.19627489**

Fitting reduced model 2:

Step 1 f(b) = **.08258914**

Group variable: **mun_id** Number of obs = **754**
Time variable: **year** Number of groups = **74**

Moment conditions: linear = **41** Obs per group: min = **1**
nonlinear = **0** avg = **10.18919**
total = **41** max = **13**

(Std. err. adjusted for **74** clusters in **mun_id**)

l_rpc_main_bcl	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_main_bcl						
L1.	.3058386	.066931	4.57	0.000	.1746563	.4370208
L2.	.0348419	.0606035	0.57	0.565	-.0839389	.1536227
elec_t	-.073087	.1493002	-0.49	0.624	-.36571	.2195361
l_rpc_total_expenses	.6867228	.902841	0.76	0.447	-1.082813	2.456259
Age	-.0090181	.0205986	-0.44	0.662	-.0493907	.0313544
sex						
Male	.3137209	.5536044	0.57	0.571	-.7713238	1.398766
k_12centers	-.0026967	.0041832	-0.64	0.519	-.0108956	.0055021
gdp	1.40e-08	3.56e-08	0.39	0.694	-5.58e-08	8.38e-08
interest_rate	.0230782	.0449741	0.51	0.608	-.0650695	.1112259
debt	-.0221362	.0175049	-1.26	0.206	-.0564453	.0121728
deficit	-7.83e-08	2.30e-07	-0.34	0.734	-5.30e-07	3.73e-07
party_type						
National	3.248359	1.838203	1.77	0.077	-.3544518	6.851171
Provincial	14.38965	13.90776	1.03	0.301	-12.86906	41.64836
win_margin	.0399427	.0455011	0.88	0.380	-.0492379	.1291233
abstentionism	-.0300748	.0343437	-0.88	0.381	-.0973871	.0372375
pop_share014	.0225425	.051027	0.44	0.659	-.0774686	.1225535
pop_share65plus	.1304534	.2279401	0.57	0.567	-.316301	.5772078
_cons	-9.064461	14.12415	-0.64	0.521	-36.74729	18.61837

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.l_rpc_main_bcl L2.L2.l_rpc_main_bcl L1.Age L2.Age L1.2.sex L2.2.sex
L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
L1.l_rpc_total_expenses L2.l_rpc_total_expenses

2, model(level):

D.L.l_rpc_main_bcl D.L2.l_rpc_main_bcl D.elec_t D.Age D.2.sex D.k_12centers
D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(25) = **14.5243**
Prob > chi2 = **0.9518**

2-step moment functions, 3-step weighting matrix chi2(25) = 18.5241
 Prob > chi2 = 0.8193

Arellano-Bond test for autocorrelation of the first-differenced residuals
 H0: no autocorrelation of order 1: z = -5.8488 Prob > |z| = 0.0000
 H0: no autocorrelation of order 2: z = -0.5493 Prob > |z| = 0.5828

Generalized method of moments estimation

Fitting full model:
 Step 1 f(b) = .6787098
 Step 2 f(b) = .3721161

Fitting reduced model 2:
 Step 1 f(b) = .19416022

Group variable: **mun_id** Number of obs = 754
 Time variable: **year** Number of groups = 74
 Moment conditions: linear = 56 Obs per group: min = 1
 nonlinear = 0 avg = 10.18919
 total = 56 max = 13

(Std. err. adjusted for 74 clusters in **mun_id**)

l_rpc_main_bcl	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_main_bcl						
L1.	.2390097	.070191	3.41	0.001	.101438	.3765815
L2.	.0170578	.0599277	0.28	0.776	-.1003983	.134514
elec_t	-.0303096	.1262025	-0.24	0.810	-.277662	.2170427
l_rpc_total_expenses	.7110932	1.194506	0.60	0.552	-1.630096	3.052282
Age	-.0399766	.0227103	-1.76	0.078	-.0844879	.0045348
sex						
Male	.5666454	.5072689	1.12	0.264	-.4275835	1.560874
k_12centers	-.004116	.0045057	-0.91	0.361	-.0129469	.004715
gdp	6.04e-09	5.33e-08	0.11	0.910	-9.84e-08	1.11e-07
interest_rate	-.002777	.0479198	-0.06	0.954	-.096698	.0911441
debt	-.0125209	.0172472	-0.73	0.468	-.0463248	.021283
deficit	-1.05e-07	2.07e-07	-0.51	0.612	-5.09e-07	3.00e-07
party_type						
National	4.867939	2.792258	1.74	0.081	-.6047864	10.34067
Provincial	-.2563724	8.349511	-0.03	0.976	-16.62111	16.10837
win_margin	.0351018	.0305324	1.15	0.250	-.0247406	.0949443
abstentionism	-.079529	.0302018	-2.63	0.008	-.1387235	-.0203345
pop_share014	.023334	.0460213	0.51	0.612	-.066866	.1135341
pop_share65plus	-.0632839	.1493186	-0.42	0.672	-.355943	.2293753
_cons	-4.532476	16.89158	-0.27	0.788	-37.63936	28.57441

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.l_rpc_main_bcl L2.L2.l_rpc_main_bcl L3.L2.l_rpc_main_bcl L1.Age
 L2.Age L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
 L3.k_12centers L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate
 L3.interest_rate L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit
 L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L1.3.party_type
 L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
 L1.abstentionism L2.abstentionism L3.abstentionism L1.pop_share014
 L2.pop_share014 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus
 L3.pop_share65plus L1.l_rpc_total_expenses L2.l_rpc_total_expenses
 L3.l_rpc_total_expenses

2, model(level):

D.L.l_rpc_main_bcl D.L2.l_rpc_main_bcl D.elec_t D.Age D.2.sex D.k_12centers
 D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix $\chi^2(40) = 27.5366$
Prob > $\chi^2 = 0.9326$

2-step moment functions, 3-step weighting matrix $\chi^2(40) = 33.5279$
Prob > $\chi^2 = 0.7553$

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: $z = -5.4444$ Prob > $|z| = 0.0000$
H0: no autocorrelation of order 2: $z = -0.1195$ Prob > $|z| = 0.9049$

Generalized method of moments estimation

Fitting full model:

Step 1 $f(b) = .92081829$
Step 2 $f(b) = .61011084$

Fitting reduced model 2:

Step 1 $f(b) = .38017398$

Group variable: **mun_id** Number of obs = 754
Time variable: **year** Number of groups = 74

Moment conditions: linear = 67 Obs per group: min = 1
 nonlinear = 0 avg = 10.18919
 total = 67 max = 13

(Std. err. adjusted for 74 clusters in **mun_id**)

l_rpc_main_bcl	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_main_bcl						
L1.	.2508177	.085428	2.94	0.003	.0833819	.4182536
L2.	-.0051024	.0789197	-0.06	0.948	-.1597822	.1495774
elec_t	-.0253369	.1571267	-0.16	0.872	-.3332995	.2826257
l_rpc_total_expenses	.670811	1.127245	0.60	0.552	-1.538549	2.880171
Age	-.0480706	.026297	-1.83	0.068	-.0996118	.0034707
sex						
Male	.5055493	.5480347	0.92	0.356	-.568579	1.579678
k_12centers	-.0044298	.0046275	-0.96	0.338	-.0134996	.00464
gdp	1.33e-08	5.69e-08	0.23	0.815	-9.83e-08	1.25e-07
interest_rate	.0045822	.0526907	0.09	0.931	-.0986897	.107854
debt	-.0131678	.0210951	-0.62	0.532	-.0545135	.0281779
deficit	-1.60e-07	2.40e-07	-0.67	0.504	-6.30e-07	3.10e-07
party_type						
National	4.72826	2.696563	1.75	0.080	-.5569064	10.01343
Provincial	2.111335	7.661896	0.28	0.783	-12.90571	17.12838
win_margin	.0517462	.0324951	1.59	0.111	-.011943	.1154354
abstentionism	-.0791904	.0415702	-1.90	0.057	-.1606665	.0022857
pop_share014	.0182158	.0537972	0.34	0.735	-.0872247	.1236564
pop_share65plus	-.0997108	.1888817	-0.53	0.598	-.4699122	.2704906
_cons	-3.231549	15.57618	-0.21	0.836	-33.7603	27.2972

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.1_rpc_main_bcl L2.L2.1_rpc_main_bcl L3.L2.1_rpc_main_bcl
L4.L2.1_rpc_main_bcl L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex
L4.2.sex L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp
L2.gdp L3.gdp L4.gdp L2.interest_rate L2.debt L3.debt L4.debt L1.deficit
L2.deficit L3.deficit L4.deficit L1.2bn.party_type L2.2bn.party_type
L3.2bn.party_type L4.2bn.party_type L1.3.party_type L2.3.party_type
L3.3.party_type L4.3.party_type L1.win_margin L2.win_margin L3.win_margin
L4.win_margin L1.abstentionism L2.abstentionism L3.abstentionism
L4.abstentionism L1.pop_share014 L2.pop_share014 L3.pop_share014
L4.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus

```

L4.pop_share65plus L1.l_rpc_total_expenses L2.l_rpc_total_expenses
L3.l_rpc_total_expenses L4.l_rpc_total_expenses
2, model(level):
  D.L.l_rpc_main_bcl D.L2.l_rpc_main_bcl D.elec_t D.Age D.2.sex D.k_12centers
  D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(51) = **45.1482**
Prob > chi2 = **0.7042**

2-step moment functions, 3-step weighting matrix chi2(51) = **59.8571**
Prob > chi2 = **0.1851**

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = **-5.1529** Prob > |z| = **0.0000**
H0: no autocorrelation of order 2: z = **0.2089** Prob > |z| = **0.8345**

Generalized method of moments estimation

Fitting full model:
Step 1 f(b) = **.56736378**
Step 2 f(b) = **.26965215**

Fitting reduced model 2:
Step 1 f(b) = **1.716e-20**

Group variable: **mun_id** Number of obs = **890**
Time variable: **year** Number of groups = **80**

Moment conditions: linear = **25** Obs per group: min = **2**
 nonlinear = **0** avg = **11.125**
 total = **25** max = **14**

(Std. err. adjusted for **80** clusters in **mun_id**)

l_rpc_cap_roads	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_roads						
L1.	.3191885	.0724469	4.41	0.000	.1771952	.4611819
elec_t	-.1512381	.1782234	-0.85	0.396	-.5005494	.1980733
l_rpc_total_expenses	.845431	.5611931	1.51	0.132	-.2544873	1.945349
Age	.0261912	.0286787	0.91	0.361	-.030018	.0824003
sex						
Male	.8303789	.7120287	1.17	0.244	-.5651717	2.225929
k_12centers	.0005498	.0051189	0.11	0.914	-.009483	.0105825
gdp	3.20e-08	5.79e-08	0.55	0.580	-8.14e-08	1.45e-07
interest_rate	.0785151	.0613856	1.28	0.201	-.0417984	.1988286
debt	.0205662	.0201729	1.02	0.308	-.0189719	.0601044
deficit	-2.90e-07	2.85e-07	-1.02	0.310	-8.49e-07	2.69e-07
party_type						
National	.2012356	.9841885	0.20	0.838	-1.727738	2.13021
Provincial	.2323512	8.224595	0.03	0.977	-15.88756	16.35226
win_margin	-.0085856	.0294051	-0.29	0.770	-.0662185	.0490473
abstentionism	.0411242	.0401988	1.02	0.306	-.0376641	.1199125
pop_share014	.2220025	.0917982	2.42	0.016	.0420813	.4019237
pop_share65plus	.234573	.3708229	0.63	0.527	-.4922265	.9613725
_cons	-21.72263	10.66306	-2.04	0.042	-42.62185	-.8234147

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L.l_rpc_cap_roads L1.Age L1.2.sex L1.k_12centers L1.gdp L1.interest_rate
  L1.debt L1.deficit L1.2bn.party_type L1.3.party_type L1.win_margin
  L1.abstentionism L1.pop_share014 L1.pop_share65plus L1.l_rpc_total_expenses

```

```

2, model(level):
  D.L1_rpc_cap_roads D.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(10)    =    21.5722
                                                         Prob > chi2 =    0.0174

```

```

2-step moment functions, 3-step weighting matrix      chi2(10)    =    21.0691
                                                         Prob > chi2 =    0.0206

```

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = -4.9994 Prob > |z| = 0.0000
H0: no autocorrelation of order 2: z = 2.2902 Prob > |z| = 0.0220

Generalized method of moments estimation

```

Fitting full model:
Step 1          f(b) =   .90934392
Step 2          f(b) =   .42928604

```

```

Fitting reduced model 2:
Step 1          f(b) =   .22395903

```

```

Group variable:  mun_id          Number of obs      =    890
Time variable:  year            Number of groups   =    80

```

```

Moment conditions:      linear =    40      Obs per group:   min =    2
                        nonlinear =    0      avg =   11.125
                        total =   40      max =   14

```

(Std. err. adjusted for 80 clusters in mun_id)

	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_roads						
l_rpc_cap_roads L1.	.2909672	.0702782	4.14	0.000	.1532245	.4287099
elec_t	-.1126695	.1805908	-0.62	0.533	-.4666208	.2412819
l_rpc_total_expenses	.8517483	.5335484	1.60	0.110	-.1939874	1.897484
Age	.012713	.0263598	0.48	0.630	-.0389512	.0643773
sex						
Male	.8505834	.6706292	1.27	0.205	-.4638256	2.164992
k_12centers	-.0022581	.0052141	-0.43	0.665	-.0124776	.0079613
gdp	6.95e-08	5.00e-08	1.39	0.165	-2.86e-08	1.68e-07
interest_rate	.0364344	.0536989	0.68	0.497	-.0688135	.1416823
debt	.0040945	.0168608	0.24	0.808	-.0289521	.0371411
deficit	-3.18e-08	2.55e-07	-0.12	0.901	-5.31e-07	4.67e-07
party_type						
National	.0649945	1.324794	0.05	0.961	-2.531554	2.661543
Provincial	2.046313	6.216573	0.33	0.742	-10.13795	14.23057
win_margin	-.0093244	.0325668	-0.29	0.775	-.0731541	.0545053
abstentionism	-.0049034	.035011	-0.14	0.889	-.0735236	.0637169
pop_share014	.2661578	.0885505	3.01	0.003	.092602	.4397136
pop_share65plus	.140277	.3728501	0.38	0.707	-.5904957	.8710496
_cons	-17.45768	10.07194	-1.73	0.083	-37.19832	2.282961

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L1_rpc_cap_roads L2.L1_rpc_cap_roads L1.Age L2.Age L1.2.sex L2.2.sex
  L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
  L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
  L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
  L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014

```

```

L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
L1.l_rpc_total_expenses L2.l_rpc_total_expenses
2, model(level):
  D.L.l_rpc_cap_roads D.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(25) = **34.3429**
Prob > chi2 = **0.1008**

2-step moment functions, 3-step weighting matrix chi2(25) = **39.4637**
Prob > chi2 = **0.0331**

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = **-4.8038** Prob > |z| = **0.0000**
H0: no autocorrelation of order 2: z = **1.9704** Prob > |z| = **0.0488**

Generalized method of moments estimation

Fitting full model:
Step 1 f(b) = **1.0468904**
Step 2 f(b) = **.53463471**

Fitting reduced model 2:
Step 1 f(b) = **.40368916**

Group variable: **mun_id** Number of obs = **890**
Time variable: **year** Number of groups = **80**

Moment conditions: linear = **55** Obs per group: min = **2**
 nonlinear = **0** avg = **11.125**
 total = **55** max = **14**

(Std. err. adjusted for **80** clusters in **mun_id**)

l_rpc_cap_roads	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_roads						
L1.	.3180087	.0659424	4.82	0.000	.1887641	.4472534
elec_t	-.0502225	.1620939	-0.31	0.757	-.3679207	.2674758
l_rpc_total_expenses	.4818379	.4870623	0.99	0.323	-.4727867	1.436462
Age	.0076012	.0214125	0.35	0.723	-.0343665	.0495689
sex						
Male	.7090622	.5943217	1.19	0.233	-.455787	1.873911
k_12centers	-.0040839	.0040946	-1.00	0.319	-.0121092	.0039414
gdp	7.80e-08	3.71e-08	2.10	0.036	5.27e-09	1.51e-07
interest_rate	.0243125	.040819	0.60	0.551	-.0556913	.1043163
debt	.0087221	.0143376	0.61	0.543	-.0193791	.0368233
deficit	-6.06e-08	2.19e-07	-0.28	0.782	-4.89e-07	3.68e-07
party_type						
National	-.7386989	1.257485	-0.59	0.557	-3.203323	1.725926
Provincial	-.3130023	5.245803	-0.06	0.952	-10.59459	9.968583
win_margin	-.040005	.0276017	-1.45	0.147	-.0941034	.0140934
abstentionism	-.0532705	.0298799	-1.78	0.075	-.111834	.0052929
pop_share014	.2705788	.0830501	3.26	0.001	.1078036	.433354
pop_share65plus	-.0328986	.1908318	-0.17	0.863	-.4069221	.3411248
_cons	-6.845623	9.383523	-0.73	0.466	-25.23699	11.54574

Instruments corresponding to the linear moment conditions:

```

1, model(diff):
  L1.L.l_rpc_cap_roads L2.L.l_rpc_cap_roads L3.L.l_rpc_cap_roads L1.Age
  L2.Age L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
  L3.k_12centers L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate

```

```

L3.interest_rate L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit
L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L1.3.party_type
L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
L1.abstentionism L2.abstentionism L3.abstentionism L1.pop_share014
L2.pop_share014 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus
L3.pop_share65plus L1.l_rpc_total_expenses L2.l_rpc_total_expenses
L3.l_rpc_total_expenses
2, model(level):
  D.L1_rpc_cap_roads D.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons

```

Sargan-Hansen test of the overidentifying restrictions
H0: overidentifying restrictions are valid

```

2-step moment functions, 2-step weighting matrix      chi2(40)      =    42.7708
                                                         Prob > chi2 =    0.3530

2-step moment functions, 3-step weighting matrix      chi2(40)      =    50.8656
                                                         Prob > chi2 =    0.1165

```

Arellano-Bond test for autocorrelation of the first-differenced residuals
H0: no autocorrelation of order 1: z = -4.7739 Prob > |z| = 0.0000
H0: no autocorrelation of order 2: z = 1.9731 Prob > |z| = 0.0485

Generalized method of moments estimation

Fitting full model:
Step 1 f(b) = 1.1806924
Step 2 f(b) = .656825

Fitting reduced model 2:
Step 1 f(b) = .56773085

```

Group variable: mun_id      Number of obs      =    890
Time variable: year      Number of groups    =     80

Moment conditions:      linear =    66      Obs per group:  min =     2
                      nonlinear =    0      avg =    11.125
                      total =    66      max =    14

```

(Std. err. adjusted for 80 clusters in mun_id)

l_rpc_cap_roads	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_roads						
L1.	.3461214	.0627963	5.51	0.000	.2230428	.4692
elec_t	-.0916186	.1656217	-0.55	0.580	-.4162311	.2329939
l_rpc_total_expenses	.2093272	.49168	0.43	0.670	-.7543479	1.173002
Age	.011066	.0245647	0.45	0.652	-.0370799	.059212
sex						
Male	.377236	.5697351	0.66	0.508	-.7394243	1.493896
k_12centers	-.0026101	.0032939	-0.79	0.428	-.0090661	.003846
gdp	9.04e-08	3.24e-08	2.79	0.005	2.69e-08	1.54e-07
interest_rate	.0120565	.0386937	0.31	0.755	-.0637817	.0878946
debt	.0047794	.0124973	0.38	0.702	-.0197149	.0292736
deficit	-1.35e-08	2.06e-07	-0.07	0.947	-4.17e-07	3.90e-07
party_type						
National	-.320686	1.19211	-0.27	0.788	-2.657178	2.015806
Provincial	-2.258421	5.677217	-0.40	0.691	-13.38556	8.868719
win_margin	-.01936	.024915	-0.78	0.437	-.0681925	.0294725
abstentionism	-.0577215	.0311602	-1.85	0.064	-.1187944	.0033514
pop_share014	.2618976	.0632504	4.14	0.000	.1379291	.3858661
pop_share65plus	-.1012377	.197691	-0.51	0.609	-.4887051	.2862296
_cons	-2.497771	9.146557	-0.27	0.785	-20.42469	15.42915

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L1_rpc_cap_roads L2.L1_rpc_cap_roads L3.L1_rpc_cap_roads
  L4.L1_rpc_cap_roads L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex L3.2.sex
  L4.2.sex L1.k_12centers L2.k_12centers L3.k_12centers L4.k_12centers L1.gdp
  L2.gdp L3.gdp L4.gdp L2.interest_rate L1.debt L2.debt L3.debt L4.debt
  L1.deficit L2.deficit L3.deficit L4.deficit L1.2bn.party_type
  L2.2bn.party_type L3.2bn.party_type L4.2bn.party_type L1.3.party_type
  L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
  L4.win_margin L1.abstentionism L2.abstentionism L3.abstentionism
  L4.abstentionism L1.pop_share014 L2.pop_share014 L3.pop_share014
  L4.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus
  L4.pop_share65plus L1.l_rpc_total_expenses L2.l_rpc_total_expenses
  L3.l_rpc_total_expenses L4.l_rpc_total_expenses
2, model(level):
  D.L1_rpc_cap_roads D.elec_t D.Age D.2.sex D.k_12centers D.gdp
  D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

```
2-step moment functions, 2-step weighting matrix      chi2(51)    =    52.5460
                                                         Prob > chi2 =    0.4139
```

```
2-step moment functions, 3-step weighting matrix      chi2(51)    =    65.2318
                                                         Prob > chi2 =    0.0868
```

Arellano-Bond test for autocorrelation of the first-differenced residuals

```
H0: no autocorrelation of order 1:      z =    -4.9348    Prob > |z| =    0.0000
H0: no autocorrelation of order 2:      z =     2.0255    Prob > |z| =    0.0428
```

Generalized method of moments estimation

Fitting full model:

```
Step 1      f(b) = .10170438
Step 2      f(b) = .07770694
```

Fitting reduced model 2:

```
Step 1      f(b) = 2.967e-23
```

```
Group variable: mun_id      Number of obs      =    787
Time variable: year        Number of groups   =    80
```

```
Moment conditions:      linear =    26      Obs per group:      min =    1
                        nonlinear =    0      avg =    9.8375
                        total =    26      max =    13
```

(Std. err. adjusted for 80 clusters in mun_id)

l_rpc_cap_roads	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_roads						
L1.	.4210116	.0698359	6.03	0.000	.2841357	.5578876
L2.	.1276613	.0564486	2.26	0.024	.0170242	.2382985
elec_t	.0787091	.1584658	0.50	0.619	-.2318781	.3892964
l_rpc_total_expenses	.3061741	.4291192	0.71	0.476	-.5348841	1.147232
Age	.0235864	.0240029	0.98	0.326	-.0234583	.0706312
sex						
Male	1.290515	.735659	1.75	0.079	-.1513499	2.732381
k_12centers	-.0016753	.0037611	-0.45	0.656	-.009047	.0056964
gdp	-1.28e-08	6.67e-08	-0.19	0.848	-1.44e-07	1.18e-07
interest_rate	.1251587	.0620739	2.02	0.044	.0034962	.2468213
debt	.0300792	.0177967	1.69	0.091	-.0048018	.0649601
deficit	-2.80e-07	2.01e-07	-1.39	0.165	-6.74e-07	1.15e-07
party_type						
National	-2.507594	1.296365	-1.93	0.053	-5.048422	.0332339

Provincial	-11.64142	8.665402	-1.34	0.179	-28.6253	5.342451
win_margin	-.0434212	.0263901	-1.65	0.100	-.0951448	.0083024
abstentionism	-.0580456	.0368132	-1.58	0.115	-.1301982	.014107
pop_share014	.1526135	.0646364	2.36	0.018	.0259285	.2792984
pop_share65plus	-.0855447	.2431266	-0.35	0.725	-.5620641	.3909746
_cons	-1.994998	8.253655	-0.24	0.809	-18.17186	14.18187

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L2.l_rpc_cap_roads L1.Age L1.2.sex L1.k_12centers L1.gdp
  L1.interest_rate L1.debt L1.deficit L1.2bn.party_type L1.3.party_type
  L1.win_margin L1.abstentionism L1.pop_share014 L1.pop_share65plus
  L1.l_rpc_total_expenses
2, model(level):
  D.L.l_rpc_cap_roads D.L2.l_rpc_cap_roads D.elec_t D.Age D.2.sex
  D.k_12centers D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(10) = 6.2166
 Prob > chi2 = 0.7968

2-step moment functions, 3-step weighting matrix chi2(10) = 10.5130
 Prob > chi2 = 0.3967

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -4.2189 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = -0.2548 Prob > |z| = 0.7988

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .41209308

Step 2 f(b) = .29412842

Fitting reduced model 2:

Step 1 f(b) = .15334145

Group variable: **mun_id**

Number of obs = 787

Time variable: **year**

Number of groups = 80

Moment conditions: linear = 41 Obs per group: min = 1
 nonlinear = 0 avg = 9.8375
 total = 41 max = 13

(Std. err. adjusted for 80 clusters in **mun_id**)

l_rpc_cap_roads	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_roads						
L1.	.392102	.0827016	4.74	0.000	.2300098	.5541941
L2.	.1795812	.0610284	2.94	0.003	.0599678	.2991945
elec_t	-.0178768	.1389515	-0.13	0.898	-.2902167	.2544631
l_rpc_total_expenses	.3073789	.3988989	0.77	0.441	-.4744486	1.089206
Age	.0066651	.0239935	0.28	0.781	-.0403613	.0536915
sex						
Male	1.277251	.7068118	1.81	0.071	-.1080746	2.662577
k_12centers	-.0037875	.0037941	-1.00	0.318	-.0112238	.0036488
gdp	8.60e-08	3.75e-08	2.29	0.022	1.25e-08	1.59e-07
interest_rate	.0376862	.0540596	0.70	0.486	-.0682688	.1436411
debt	.0041705	.0175213	0.24	0.812	-.0301706	.0385117
deficit	-2.02e-07	1.92e-07	-1.05	0.292	-5.79e-07	1.74e-07
party_type						
National	-2.645514	1.69398	-1.56	0.118	-5.965655	.6746265

Provincial	-12.7792	8.528919	-1.50	0.134	-29.49558	3.93717
win_margin	-.0267878	.0320615	-0.84	0.403	-.0896271	.0360515
abstentionism	-.0536132	.0284353	-1.89	0.059	-.1093455	.002119
pop_share014	.1950656	.0718394	2.72	0.007	.054263	.3358682
pop_share65plus	-.2631295	.2927391	-0.90	0.369	-.8368877	.3106287
_cons	-1.622386	7.724198	-0.21	0.834	-16.76154	13.51676

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L2.l_rpc_cap_roads L2.L2.l_rpc_cap_roads L1.Age L2.Age L1.2.sex L2.2.sex
  L1.k_12centers L2.k_12centers L1.gdp L2.gdp L1.interest_rate
  L2.interest_rate L1.debt L2.debt L1.deficit L2.deficit L1.2bn.party_type
  L2.2bn.party_type L1.3.party_type L2.3.party_type L1.win_margin
  L2.win_margin L1.abstentionism L2.abstentionism L1.pop_share014
  L2.pop_share014 L1.pop_share65plus L2.pop_share65plus
  L1.l_rpc_total_expenses L2.l_rpc_total_expenses
2, model(level):
  D.L.l_rpc_cap_roads D.L2.l_rpc_cap_roads D.elec_t D.Age D.2.sex
  D.k_12centers D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(25) = 23.5303
 Prob > chi2 = 0.5466

2-step moment functions, 3-step weighting matrix chi2(25) = 30.7586
 Prob > chi2 = 0.1971

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -4.1092 Prob > |z| = 0.0000
 H0: no autocorrelation of order 2: z = -1.1427 Prob > |z| = 0.2532

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .51252015
 Step 2 f(b) = .35799819

Fitting reduced model 2:

Step 1 f(b) = .21847125

Group variable: **mun_id** Number of obs = 787
 Time variable: **year** Number of groups = 80

Moment conditions: linear = 56 Obs per group: min = 1
 nonlinear = 0 avg = 9.8375
 total = 56 max = 13

(Std. err. adjusted for 80 clusters in **mun_id**)

l_rpc_cap_roads	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_roads						
L1.	.3917747	.0733345	5.34	0.000	.2480417	.5355077
L2.	.1551806	.0580118	2.67	0.007	.0414795	.2688817
elec_t	-.0038714	.1240318	-0.03	0.975	-.2469692	.2392265
l_rpc_total_expenses	.2580225	.4220387	0.61	0.541	-.569158	1.085203
Age	-.0029681	.0192235	-0.15	0.877	-.0406456	.0347093
sex						
Male	1.05484	.4099852	2.57	0.010	.2512839	1.858396
k_12centers	-.0037755	.0030875	-1.22	0.221	-.0098269	.002276
gdp	8.38e-08	3.41e-08	2.46	0.014	1.69e-08	1.51e-07
interest_rate	.0216841	.0368922	0.59	0.557	-.0506233	.0939916
debt	.0071362	.0132224	0.54	0.589	-.0187791	.0330515
deficit	-1.89e-07	1.67e-07	-1.13	0.258	-5.17e-07	1.39e-07

party_type						
National	-2.727331	1.550752	-1.76	0.079	-5.766749	.3120867
Provincial	-13.00004	6.359145	-2.04	0.041	-25.46374	-.5363463
win_margin	-.0388015	.0268274	-1.45	0.148	-.0913823	.0137793
abstentionism	-.0617269	.0248285	-2.49	0.013	-.1103899	-.0130639
pop_share014	.1966886	.0657289	2.99	0.003	.0678623	.3255149
pop_share65plus	-.3109503	.1554411	-2.00	0.045	-.6156093	-.0062913
_cons	1.052703	7.940477	0.13	0.895	-14.51035	16.61575

Instruments corresponding to the linear moment conditions:

```
1, model(diff):
  L1.L2.1_rpc_cap_roads L2.L2.1_rpc_cap_roads L3.L2.1_rpc_cap_roads L1.Age
  L2.Age L3.Age L1.2.sex L2.2.sex L3.2.sex L1.k_12centers L2.k_12centers
  L3.k_12centers L1.gdp L2.gdp L3.gdp L1.interest_rate L2.interest_rate
  L3.interest_rate L1.debt L2.debt L3.debt L1.deficit L2.deficit L3.deficit
  L1.2bn.party_type L2.2bn.party_type L3.2bn.party_type L1.3.party_type
  L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
  L1.abstentionism L2.abstentionism L3.abstentionism L1.pop_share014
  L2.pop_share014 L3.pop_share014 L1.pop_share65plus L2.pop_share65plus
  L3.pop_share65plus L1.l_rpc_total_expenses L2.l_rpc_total_expenses
  L3.l_rpc_total_expenses
2, model(level):
  D.L.1_rpc_cap_roads D.L2.1_rpc_cap_roads D.elec_t D.Age D.2.sex
  D.k_12centers D.gdp D.interest_rate D.debt D.deficit
3, model(level):
  _cons
```

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(40) = 28.6399
 Prob > chi2 = 0.9097

2-step moment functions, 3-step weighting matrix chi2(40) = 43.6861
 Prob > chi2 = 0.3177

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -4.0737 Prob > |z| = 0.0000
 H0: no autocorrelation of order 2: z = -0.8158 Prob > |z| = 0.4146

Generalized method of moments estimation

Fitting full model:

Step 1 f(b) = .64549552
 Step 2 f(b) = .51017287

Fitting reduced model 2:

Step 1 f(b) = .32588788

Group variable: **mun_id** Number of obs = 787
 Time variable: **year** Number of groups = 80

Moment conditions: linear = 66 Obs per group: min = 1
 nonlinear = 0 avg = 9.8375
 total = 66 max = 13

(Std. err. adjusted for 80 clusters in **mun_id**)

	Coefficient	WC-Robust std. err.	z	P> z	[95% conf. interval]	
l_rpc_cap_roads						
l_rpc_cap_roads						
L1.	.4149482	.0670461	6.19	0.000	.2835403	.5463562
L2.	.1534123	.059064	2.60	0.009	.0376491	.2691755
elec_t	-.0308794	.1210163	-0.26	0.799	-.268067	.2063082
l_rpc_total_expenses	.1170516	.4796278	0.24	0.807	-.8230016	1.057105
Age	-.0076229	.0205762	-0.37	0.711	-.0479515	.0327057
sex						

Male	.9859708	.460351	2.14	0.032	.0836995	1.888242
k_12centers	-.0034567	.0025143	-1.37	0.169	-.0083846	.0014711
gdp	8.76e-08	2.69e-08	3.26	0.001	3.49e-08	1.40e-07
interest_rate	-.0033449	.0340498	-0.10	0.922	-.0700812	.0633914
debt	.0054509	.0121369	0.45	0.653	-.0183369	.0292388
deficit	-2.14e-07	1.66e-07	-1.29	0.197	-5.38e-07	1.11e-07
party_type						
National	-1.29784	1.000995	-1.30	0.195	-3.259755	.6640752
Provincial	-10.15238	6.094699	-1.67	0.096	-22.09778	1.793007
win_margin	.0001465	.0275737	0.01	0.996	-.053897	.05419
abstentionism	-.0609338	.0235672	-2.59	0.010	-.1071247	-.014743
pop_share014	.1895975	.0486151	3.90	0.000	.0943137	.2848813
pop_share65plus	-.3337174	.1213136	-2.75	0.006	-.5714878	-.0959471
_cons	2.064734	8.321487	0.25	0.804	-14.24508	18.37455

Instruments corresponding to the linear moment conditions:

1, model(diff):

L1.L2.1_rpc_cap_roads L2.L2.1_rpc_cap_roads L3.L2.1_rpc_cap_roads
 L4.L2.1_rpc_cap_roads L1.Age L2.Age L3.Age L4.Age L1.2.sex L2.2.sex
 L3.2.sex L4.2.sex L1.k_12centers L2.k_12centers L3.k_12centers
 L4.k_12centers L1.gdp L2.gdp L3.gdp L4.gdp L2.interest_rate L2.debt L3.debt
 L4.debt L1.deficit L2.deficit L3.deficit L4.deficit L1.2bn.party_type
 L2.2bn.party_type L3.2bn.party_type L4.2bn.party_type L1.3.party_type
 L2.3.party_type L3.3.party_type L1.win_margin L2.win_margin L3.win_margin
 L4.win_margin L1.abstentionism L2.abstentionism L3.abstentionism
 L4.abstentionism L1.pop_share014 L2.pop_share014 L3.pop_share014
 L4.pop_share014 L1.pop_share65plus L2.pop_share65plus L3.pop_share65plus
 L4.pop_share65plus L1.l_rpc_total_expenses L2.l_rpc_total_expenses
 L3.l_rpc_total_expenses L4.l_rpc_total_expenses

2, model(level):

D.L.1_rpc_cap_roads D.L2.1_rpc_cap_roads D.elec_t D.Age D.2.sex
 D.k_12centers D.gdp D.interest_rate D.debt D.deficit

3, model(level):

_cons

Sargan-Hansen test of the overidentifying restrictions

H0: overidentifying restrictions are valid

2-step moment functions, 2-step weighting matrix chi2(50) = 40.8138
 Prob > chi2 = 0.8196

2-step moment functions, 3-step weighting matrix chi2(50) = 50.5389
 Prob > chi2 = 0.4521

Arellano-Bond test for autocorrelation of the first-differenced residuals

H0: no autocorrelation of order 1: z = -4.1103 Prob > |z| = 0.0000

H0: no autocorrelation of order 2: z = -0.7611 Prob > |z| = 0.4466

25.

26. log close

name: <unnamed>

log: C:\Users\igna9\Desktop\seminario\output.smcl

log type: smcl

closed on: 17 May 2022, 20:52:41