When cartels split

Roll call votes and majority factional warfare in the Mexico City Assembly

Eric Magar

ITAM, Mexico City

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Motivation

Study of Mexico City legislative assembly is opportunity to inspect procedural cartel theory (Cox&McCubbins 2005)

- where majority is deeply factionalized/polarized
- at sub-national level

- Policy matters: approved smoking ban, same-sex civil unions, euthanasia, legalized abortion
- Roll call voting 2006–09 (4th legislature)

Assembly make-up

40 members elected FPTP, 26 by PR

	1st	2nd	3rd	4th	5th
	1997-2000	2000-03	2003-06	2006–09	2009–12
PRD	<i>58</i>	29	<i>56</i>	52	52
PAN	17	26	24	26	23
PRI	17	24	11	6	12
PT	_	_	_	_	8
PVEM	6	12	8	5	5
PASD	_	5	_	_	_
PANAL	_	_	_	6	_
Independent	3	5	2	6	2
Total	100	100	100	100	100

Anatomy of a split



The sore loser



Leading clique Los Chuchos



The Mayor

Procedural cartel theory

Legislative institutions mitigate collective dilemmas by creating inequality (cf. Weingast&Marshall 1988)

Cox&McCubbins:

- Majority seizes all offices endowed with agenda power
- ② Two types of agenda power
 - positive, proposal rights conditional
 - negative, veto power unconditional

Expectation: majority remains united in floor even if deeply divided

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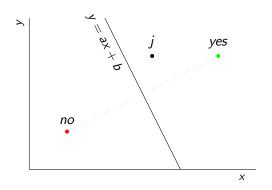
Data descriptives

2006–09: 521 roll call votes in floor, 175 contested (34 %)

	PRD majority	PAN	PRI	PANAL	PVEM	Ν
	Rice scores					
All votes	.94	.99	.99	.99	.99	521
Contested votes only	.83	.98	.99	.96	.98	175
Minority vote >10 %	.84	.98	1	.95	.98	137
		Roll rates				
All votes	2	10	10	8	24	521
Contested votes only	6	29	21	23	33	175
Minority vote >10 %	9	41	26	26	38	137
		>40 % voted nay yet bill passed				
All votes	4	10	_	_	_	521
Contested votes only	13	29	_	_	_	175
Minority vote >10 %	18	41	-	-	-	137

Abstentions and absences treated as missing values.

Spatial voting theory



Stochastic voting model

Vote propensity: $v_j^* = \delta(ax_j + b - y_j) + ext{error}$

Sincere voting:
$$v_j = \begin{cases} 1 \text{ ('yes')} \iff v_j^* \geq 0 \\ 0 \text{ ('no')} \text{ otherwise} \end{cases}$$

Dynamic:
$$\theta_{j,t} = \begin{bmatrix} x_{j,t} \\ y_{j,t} \end{bmatrix} \sim \mathrm{N}(\theta_{j,t-1},\mathsf{slack})$$

Bayesian estimation via MCMC simulation

- ① Extend Martin&Quinn (2002) to 2-D
- 2 Show that BUGS can estimate this

Meaning of recovered ideal points

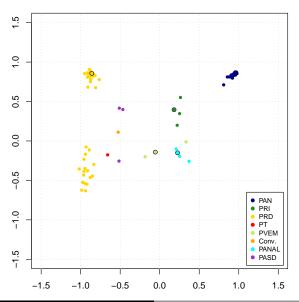
Fixed parameters δ and a for 4 items to convey meaning to spatial coordinates



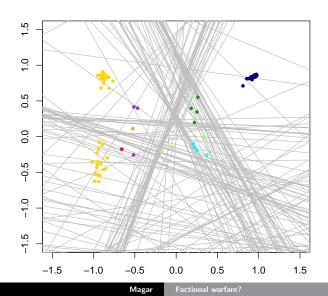
Meaning of recovered ideal points

Date	Issue voted	Cleavage line	Aye vote pulls ideal point towards
Nov. 9, 2006	Same-sex civil unions	vertical	west
Dec. 26, 2006	Appointment of 5 new electoral magistrates	horizontal	south
Dec. 28, 2006	Lower debt ceiling for city budget for FY2007	vertical	east
May 29, 2008	Confirmation of city's electoral board	horizontal	south

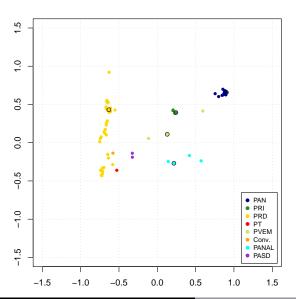
Static estimation 2006-09



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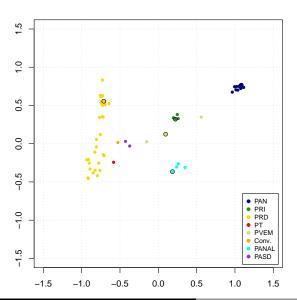


Dynamic model (t=1)



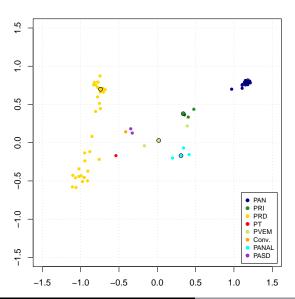


Dynamic model (t=2)



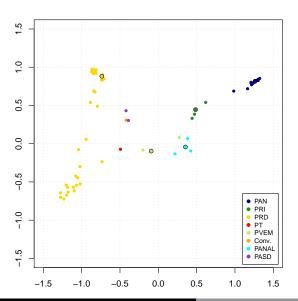


Dynamic model (t = 3)



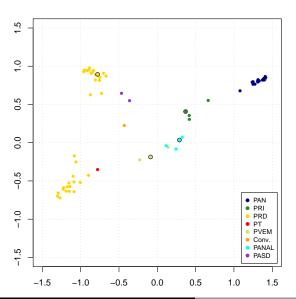


Dynamic model (t=4)



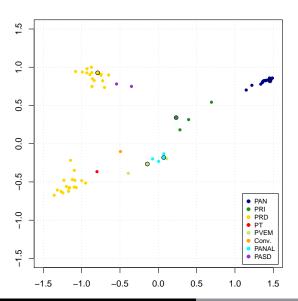


Dynamic model (t = 5)



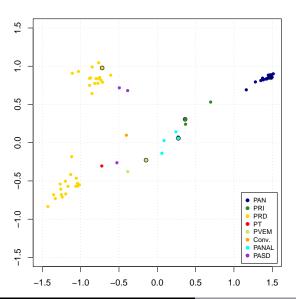


Dynamic model (t = 6)



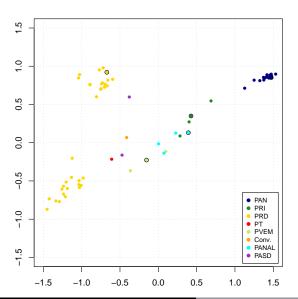


Dynamic model (t = 7)





Dynamic model (t = 8)





Findings and next steps

Preliminary analysis reveals that:

- Majority united in left-right axis, but split consistently over "confirmations"
- ② 4th legislature exceptional? Routine?
- 3 2006 fiasco may explain
- Verify studying other legislatures
- O Check Bonica's work

Thank you!

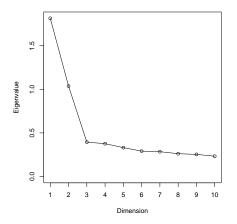
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Bi-dimensionality



Eigenvalues of the double-centered agreement score matrix for 4th legislature drop fairly smoothly from the third value onwards, an indication that the data are most likely two-dimensional. Abstentions and absences coded as nays for this computation.