

Italy_ENP

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Italy ENP Analysis

This is my analysis of the Effective Number of Parties in Italy for elections from 2000 - 2013. I have added insightful analysis of the election formula in Italy.

Calculating the ENP for 2013 for Constituency 1

This replicates what we did for Data Lab 2

'summarise()' has grouped output by 'cst'. You can override using the '.groups' argument.

Table 1: ENP for Italy, 2013, Constituency 1

cst	cst_n	enp_v	enp_s	yr	mag
1	ABRUZZO	4.872879	3.5	2013	14

Calculating the ENP for 2013 for All Constituencies

This replicates what we did for Data Lab 2 but for all constituencies in 2013

'summarise()' has grouped output by 'yr', 'cst'. You can override using the '.groups' argument.

Table 2: ENP for Italy, All Years, All Constituencies

yr	cst	cst_n	enp_v	enp_s	mag
2001	1	ABRUZZO	6.192396	3.000000	3
2001	2	BASILICATA	6.577810	2.000000	2
2001	3	CALABRIA	6.928159	3.600000	6
2001	4	CAMPANIA 1	5.269940	3.521739	9
2001	5	CAMPANIA 2	6.081915	3.769231	7
2001	6	EMILIA-ROMAGNA	5.553195	3.857143	9
2001	7	FRIULI VENEZIA GIULIA	6.110583	3.000000	3
2001	8	LAZIO 1	5.759220	4.545454	10
2001	9	LAZIO 2	5.390894	2.666667	4
2001	10	LIGURIA	5.723591	3.600000	6
2001	11	LOMBARDIA 1	5.586986	3.846154	10
2001	12	LOMBARDIA 2	5.954248	3.571429	10

yr	cst	cst_n	enp_v	enp_s	mag
2001	13	LOMBARDIA 3	5.647042	2.666667	4
2001	14	MARCHE	6.080319	4.000000	4
2001	15	MOLISE	6.768466	1.000000	1
2001	16	PIEMONTE 1	5.818258	3.000000	6
2001	17	PIEMONTE 2	5.857574	3.000000	6
2001	18	PUGLIA	6.037850	3.846154	10
2001	19	SARDEGNA	6.154497	2.666667	4
2001	20	SICILIA 1	5.191094	2.578947	7
2001	21	SICILIA 2	5.257997	3.266667	7
2001	22	TOSCANA	5.396803	4.166667	10
2001	23	TRENTINO ALTO ADIGE	5.801603	2.000000	2
2001	24	UMBRIA	5.932468	2.000000	2
2001	25	VENETO 1	5.968747	4.000000	8
2001	26	VENETO 2	6.561136	3.571429	5
2006	1	ABRUZZO	5.254521	4.666667	14
2006	2	BASILICATA	5.290592	3.000000	6
2006	3	CALABRIA	6.983667	5.902439	22
2006	4	CAMPANIA 1	5.338295	5.018433	33
2006	5	CAMPANIA 2	5.556062	5.289308	29
2006	6	EMILIA-ROMAGNA	3.909109	3.508539	43
2006	7	FRIULI-VENEZIA GIULIA	5.611389	5.121212	13
2006	8	LAZIO 1	5.152154	4.597701	40
2006	9	LAZIO 2	5.393089	5.000000	15
2006	10	LIGURIA	4.954569	3.853333	17
2006	11	LOMBARDIA 1	5.352601	4.733728	40
2006	12	LOMBARDIA 2	5.825205	5.150418	43
2006	13	LOMBARDIA 3	5.335804	4.245283	15
2006	14	MARCHE	4.488135	3.878788	16
2006	15	MOLISE	5.300106	2.000000	2
2006	16	PIEMONTE 1	5.257636	4.645161	24
2006	17	PIEMONTE 2	5.549284	5.500000	22
2006	18	PUGLIA	5.284013	4.815920	44
2006	19	SARDEGNA	5.207778	5.062500	18
2006	20	SICILIA 1	5.739129	5.728814	26
2006	21	SICILIA 2	5.466862	4.722892	28
2006	22	TOSCANA	4.093005	3.664975	38
2006	23	TRENTINO-ALTO ADIGE	5.992670	4.172414	11
2006	24	UMBRIA	4.506038	3.857143	9
2006	25	VENETO 1	6.016425	5.223603	29
2006	26	VENETO 2	6.004277	4.651163	20
2008	1	ABRUZZO	3.377185	2.578947	14
2008	2	BASILICATA	3.388409	2.000000	6
2008	3	CALABRIA	3.475157	2.750000	22
2008	4	CAMPANIA 1	2.988022	2.515011	33
2008	5	CAMPANIA 2	2.988663	2.451895	29
2008	6	EMILIA-ROMAGNA	3.308407	2.848998	43
2008	7	FRIULI-VENEZIA GIULIA	4.109817	3.595745	13
2008	8	LAZIO 1	3.042745	2.409639	40
2008	9	LAZIO 2	2.903966	2.102804	15
2008	10	LIGURIA	3.482981	3.175824	17
2008	11	LOMBARDIA 1	3.895219	3.238866	40
2008	12	LOMBARDIA 2	4.163138	3.495274	43

yr	cst	cst_n	enp_v	enp_s	mag
2008	13	LOMBARDIA 3	4.055831	3.169014	15
2008	14	MARCHE	3.300056	2.909091	16
2008	15	MOLISE	4.019126	1.800000	3
2008	16	PIEMONTE 1	3.926401	3.272727	24
2008	17	PIEMONTE 2	4.037390	3.245399	23
2008	18	PUGLIA	3.177933	2.595174	44
2008	19	SARDEGNA	3.145123	2.454546	18
2008	20	SICILIA 1	3.376801	2.729258	25
2008	21	SICILIA 2	3.291139	2.722222	28
2008	22	TOSCANA	3.071704	2.439189	38
2008	23	TRENTINO-ALTO ADIGE	5.652521	3.521739	9
2008	24	UMBRIA	3.106239	1.975610	9
2008	25	VENETO 1	4.456861	3.600000	30
2008	26	VENETO 2	4.432112	3.636364	20
2013	1	ABRUZZO	4.872879	3.500000	14
2013	2	BASILICATA	5.747558	3.000000	6
2013	3	CALABRIA	5.638730	3.448276	20
2013	4	CAMPANIA 1	5.049607	3.683453	32
2013	5	CAMPANIA 2	5.478985	3.805825	28
2013	6	EMILIA ROMAGNA	4.288112	2.335640	45
2013	7	FRIULI-VENEZIA GIULIA	5.326487	3.272727	12
2013	8	LAZIO 1	4.855469	3.172662	42
2013	9	LAZIO 2	4.759374	3.657143	16
2013	10	LIGURIA	4.458426	2.666667	16
2013	11	LOMBARDIA 1	5.463732	3.076923	40
2013	12	LOMBARDIA 2	5.775240	3.743068	45
2013	13	LOMBARDIA 3	5.291881	3.368421	16
2013	14	MARCHE	4.541739	2.666667	16
2013	15	MOLISE	5.329660	1.000000	2
2013	16	PIEMONTE 1	4.968968	3.412903	23
2013	17	PIEMONTE 2	5.312953	3.666667	22
2013	18	PUGLIA	5.133482	4.388060	42
2013	19	SARDEGNA	4.973753	3.521739	18
2013	20	SICILIA 1	4.375218	3.571429	25
2013	21	SICILIA 2	4.553770	3.857143	27
2013	22	TOSCANA	4.231503	2.489655	38
2013	23	TRENTINO-ALTO ADIGE	6.805908	3.789474	12
2013	24	UMBRIA	4.470770	2.612903	9
2013	25	VENETO 1	5.952565	3.922449	31
2013	26	VENETO 2	5.522756	3.636364	20
2018	1	Abano Terme	2.868897	1.000000	1
2018	2	Abbiategrosso	2.964218	1.000000	1
2018	3	Acerra	2.180339	1.000000	1
2018	4	Acireale	2.809093	1.000000	1
2018	5	Agrigento	2.704612	1.000000	1
2018	6	Agropoli	3.409397	1.000000	1
2018	7	Alba	2.966373	1.000000	1
2018	8	Albino	2.465796	1.000000	1
2018	9	Alessandria	3.133420	1.000000	1
2018	10	Altamura	2.819298	1.000000	1
2018	11	Ancona	3.491580	1.000000	1
2018	12	Andria	2.790403	1.000000	1

yr	cst	cst_n	enp_v	enp_s	mag
2018	13	Arezzo	3.465318	1.000000	1
2018	14	Ariano Irpino	3.171941	1.000000	1
2018	15	Ascoli Piceno	3.367087	1.000000	1
2018	16	Asti	3.090305	1.000000	1
2018	17	Avellino	3.139946	1.000000	1
2018	18	Aversa	2.597329	1.000000	1
2018	19	Avola	2.620119	1.000000	1
2018	20	Bagheria	2.814943	1.000000	1
2018	21	Barcellona Pozzo Di Gotto	2.948883	1.000000	1
2018	22	Bari - Bitonto	2.774089	1.000000	1
2018	23	Bari - Circoscrizione 8 Liberta - Marconi - San Girolamo - Fesca	3.304206	1.000000	1
2018	24	Bassano Del Grappa	2.767918	1.000000	1
2018	25	Battipaglia	3.113053	1.000000	1
2018	26	Belluno	3.107937	1.000000	1
2018	27	Benevento	3.081286	1.000000	1
2018	28	Bergamo	3.015448	1.000000	1
2018	29	Biella	3.023817	1.000000	1
2018	30	Bollate	3.143237	1.000000	1
2018	31	Bologna - Casalecchio Di Reno	3.658377	1.000000	1
2018	32	Bologna - Zona Urbana Mazzini	3.737931	1.000000	1
2018	33	Bolzano/Bozen	3.561498	1.000000	1
2018	34	Brescia	3.218727	1.000000	1
2018	35	Bressanone/Brixen	2.219950	1.000000	1
2018	36	Brindisi	2.927996	1.000000	1
2018	37	Busto Arsizio	2.975353	1.000000	1
2018	38	Cagliari	3.403737	1.000000	1
2018	39	Campobasso	3.014744	1.000000	1
2018	40	Cantu	2.723959	1.000000	1
2018	41	Carbonia	3.049457	1.000000	1
2018	42	Casarano	3.083139	1.000000	1
2018	43	Caserta	2.610448	1.000000	1
2018	44	Casoria	2.377359	1.000000	1
2018	45	Cassino	3.122551	1.000000	1
2018	46	Castelfranco Veneto	2.876370	1.000000	1
2018	47	Castellammare Di Stabia	2.912600	1.000000	1
2018	48	Castrovillari	2.893603	1.000000	1
2018	49	Catania	2.837924	1.000000	1
2018	50	Catanzaro	3.008102	1.000000	1
2018	51	Cento	3.332683	1.000000	1
2018	52	Cerignola	2.946332	1.000000	1
2018	53	Cesena	3.535438	1.000000	1
2018	54	Chieti	3.144377	1.000000	1
2018	55	Chioggia	3.171314	1.000000	1
2018	56	Cinisello Balsamo	3.247978	1.000000	1
2018	57	Civitanova Marche	3.254947	1.000000	1
2018	58	Civitavecchia	3.254139	1.000000	1
2018	59	Codroipo	3.090110	1.000000	1
2018	60	Collegno	3.463225	1.000000	1
2018	61	Cologno Monzese	3.283072	1.000000	1
2018	62	Como	2.972029	1.000000	1
2018	63	Conegliano	2.737670	1.000000	1

yr	cst	cst_n	enp_v	enp_s	mag
2018	64	Corigliano Calabro	2.839404	1.000000	1
2018	65	Cosenza	2.803469	1.000000	1
2018	66	Cremona	2.875246	1.000000	1
2018	67	Crotone	2.773600	1.000000	1
2018	68	Cuneo	3.058985	1.000000	1
2018	69	Desenzano Del Garda	2.817051	1.000000	1
2018	70	Empoli	3.410111	1.000000	1
2018	71	Enna	3.028961	1.000000	1
2018	72	Fano	3.385863	1.000000	1
2018	73	Ferrara	3.280085	1.000000	1
2018	74	Fidenza	3.230161	1.000000	1
2018	75	Firenze - Quartiere Vecchio Novoli-Peretola	3.415505	1.000000	1
2018	76	Firenze - Scandicci	3.370230	1.000000	1
2018	77	Foggia	2.998287	1.000000	1
2018	78	Foligno	3.384499	1.000000	1
2018	79	Forli	3.577259	1.000000	1
2018	80	Francavilla Fontana	2.826581	1.000000	1
2018	81	Frosinone	3.063540	1.000000	1
2018	82	Gallarate	2.903717	1.000000	1
2018	83	Gela	2.746236	1.000000	1
2018	84	Genova - Rapallo	3.320877	1.000000	1
2018	85	Genova - Unità Urbanistica San Fruttuoso	3.656080	1.000000	1
2018	86	Genova - Unità Urbanistica Sestri	3.547293	1.000000	1
2018	87	Gioia Tauro	3.136293	1.000000	1
2018	88	Giugliano In Campania	2.407085	1.000000	1
2018	89	Gorgonzola	3.265396	1.000000	1
2018	90	Gorizia	3.545897	1.000000	1
2018	91	Grosseto	3.455033	1.000000	1
2018	92	Guidonia Montecelio	3.234348	1.000000	1
2018	93	Imola	3.571428	1.000000	1
2018	94	Isernia	3.066363	1.000000	1
2018	95	Ivrea	3.237274	1.000000	1
2018	96	L'Aquila	3.106141	1.000000	1
2018	97	La Spezia	3.452673	1.000000	1
2018	98	Latina	3.064674	1.000000	1
2018	99	Lecce	3.266814	1.000000	1
2018	100	Lecco	2.873928	1.000000	1
2018	101	Legnago	2.550620	1.000000	1
2018	102	Legnano	3.138314	1.000000	1
2018	103	Livorno	3.756570	1.000000	1
2018	104	Lodi	3.014078	1.000000	1
2018	105	Lucca	3.511345	1.000000	1
2018	106	Lumezzane	2.592935	1.000000	1
2018	107	Macerata	3.338738	1.000000	1
2018	108	Mantova	3.214245	1.000000	1
2018	109	Marino	3.316715	1.000000	1
2018	110	Marsala	2.682158	1.000000	1
2018	111	Martina Franca	2.941467	1.000000	1
2018	112	Massa	3.440319	1.000000	1
2018	113	Matera	3.149359	1.000000	1
2018	114	Mazara Del Vallo	2.582085	1.000000	1
2018	115	Merano/Meran	2.441003	1.000000	1

yr	cst	cst_n	enp_v	enp_s	mag
2018	116	Merate	2.829229	1.000000	1
2018	117	Messina	3.033450	1.000000	1
2018	118	Milano - Sesto San Giovanni	3.400066	1.000000	1
2018	119	Milano 1	3.375891	1.000000	1
2018	120	Milano 2	3.071332	1.000000	1
2018	121	Milano 3	3.042606	1.000000	1
2018	122	Milano 4	3.128616	1.000000	1
2018	123	Milano 5	3.332760	1.000000	1
2018	124	Misterbianco	2.593962	1.000000	1
2018	125	Modena	3.513930	1.000000	1
2018	126	Molfetta	3.174103	1.000000	1
2018	127	Moncalieri	3.315746	1.000000	1
2018	128	Monopoli	2.994431	1.000000	1
2018	129	Monreale	2.684942	1.000000	1
2018	130	Montebelluna	2.579368	1.000000	1
2018	131	Monza	3.144463	1.000000	1
2018	132	Napoli - Circoscrizione 19 Fuorigrotta	2.527535	1.000000	1
2018	133	Napoli - Circoscrizione 28 Ponticelli	2.247237	1.000000	1
2018	134	Napoli - Circoscrizione 7 San Carlo All'Arena	3.083497	1.000000	1
2018	135	Napoli - Circoscrizione 9 San Lorenzo	3.292157	1.000000	1
2018	136	Nardo	3.252932	1.000000	1
2018	137	Nola	2.748923	1.000000	1
2018	138	Novara	3.056947	1.000000	1
2018	139	Nuoro	3.253952	1.000000	1
2018	140	Olbia	3.146312	1.000000	1
2018	141	Oristano	3.215266	1.000000	1
2018	142	Padova	3.401496	1.000000	1
2018	143	Palazzolo Sull'Oglio	2.670056	1.000000	1
2018	144	Palermo - Liberta	3.347911	1.000000	1
2018	145	Palermo - Resuttana-San Lorenzo	2.876361	1.000000	1
2018	146	Palermo - Settecannoli	2.750946	1.000000	1
2018	147	Parma	3.513368	1.000000	1
2018	148	Paterno	2.600098	1.000000	1
2018	149	Pavia	2.997569	1.000000	1
2018	150	Pergine Valsugana	3.089101	1.000000	1
2018	151	Perugia	3.553491	1.000000	1
2018	152	Pesaro	3.339844	1.000000	1
2018	153	Pescara	3.153158	1.000000	1
2018	154	Piacenza	3.073075	1.000000	1
2018	155	Pinerolo	3.400747	1.000000	1
2018	156	Pisa	3.704931	1.000000	1
2018	157	Pistoia	3.402398	1.000000	1
2018	158	Poggibonsi	3.534588	1.000000	1
2018	159	Pordenone	3.167899	1.000000	1
2018	160	Portici	2.586154	1.000000	1
2018	161	Potenza	3.439531	1.000000	1
2018	162	Pozzuoli	2.830112	1.000000	1
2018	163	Prato	3.439799	1.000000	1
2018	164	Ragusa	2.704379	1.000000	1
2018	165	Ravenna	3.580239	1.000000	1
2018	166	Reggio Di Calabria	3.376323	1.000000	1
2018	167	Reggio Nell'Emilia	3.569351	1.000000	1

yr	cst	cst_n	enp_v	enp_s	mag
2018	168	Rieti	3.416592	1.000000	1
2018	169	Rimini	3.377271	1.000000	1
2018	170	Roma - Fiumicino	3.315716	1.000000	1
2018	171	Roma - Pomezia	3.291735	1.000000	1
2018	172	Roma - Quartiere Ardeatino	3.756173	1.000000	1
2018	173	Roma - Quartiere Collatino	3.604403	1.000000	1
2018	174	Roma - Quartiere Gianicolense	3.698979	1.000000	1
2018	175	Roma - Quartiere Montesacro	3.433722	1.000000	1
2018	176	Roma - Quartiere Primavalle	3.527492	1.000000	1
2018	177	Roma - Quartiere Trionfale	3.296672	1.000000	1
2018	178	Roma - Quartiere Tuscolano	3.733788	1.000000	1
2018	179	Roma - Zona Castel Giubileo	3.547906	1.000000	1
2018	180	Roma - Zona Torre Angela	3.524954	1.000000	1
2018	181	Romano Di Lombardia	2.514864	1.000000	1
2018	182	Rovereto	3.333351	1.000000	1
2018	183	Rovigo	3.031222	1.000000	1
2018	184	Rozzano	3.189595	1.000000	1
2018	185	Salerno	3.364983	1.000000	1
2018	186	San Bonifacio	2.896193	1.000000	1
2018	187	San Donà Di Piave	2.914993	1.000000	1
2018	188	San Giovanni In Persiceto	3.564485	1.000000	1
2018	189	San Severo	2.987290	1.000000	1
2018	190	Sanremo	3.031921	1.000000	1
2018	191	Santa Maria Capua Vetere	3.009823	1.000000	1
2018	192	Sassari	3.189806	1.000000	1
2018	193	Sassuolo	3.380477	1.000000	1
2018	194	Savona	3.419099	1.000000	1
2018	195	Scafati	2.918711	1.000000	1
2018	196	Scandiano	3.539825	1.000000	1
2018	197	Schio	2.846841	1.000000	1
2018	198	Seregno	2.894797	1.000000	1
2018	199	Sesto Fiorentino	3.546522	1.000000	1
2018	200	Settimo Torinese	3.369799	1.000000	1
2018	201	Siena	3.480770	1.000000	1
2018	202	Siracusa	2.440172	1.000000	1
2018	203	Sondrio	2.420560	1.000000	1
2018	204	Suzzara	3.008035	1.000000	1
2018	205	Taranto	2.917779	1.000000	1
2018	206	Teramo	3.164802	1.000000	1
2018	207	Terni	3.454549	1.000000	1
2018	208	Terracina	2.863358	1.000000	1
2018	209	Torino 1	3.335708	1.000000	1
2018	210	Torino 2	3.443615	1.000000	1
2018	211	Torino 3	3.517942	1.000000	1
2018	212	Torino 4	3.500574	1.000000	1
2018	213	Torre Del Greco	2.639388	1.000000	1
2018	214	Trento	3.273625	1.000000	1
2018	215	Treviglio	2.722883	1.000000	1
2018	216	Treviso	3.142803	1.000000	1
2018	217	Trieste	3.543077	1.000000	1
2018	218	Udine	3.320165	1.000000	1
2018	219	Valle D'Aosta	5.586467	1.000000	1

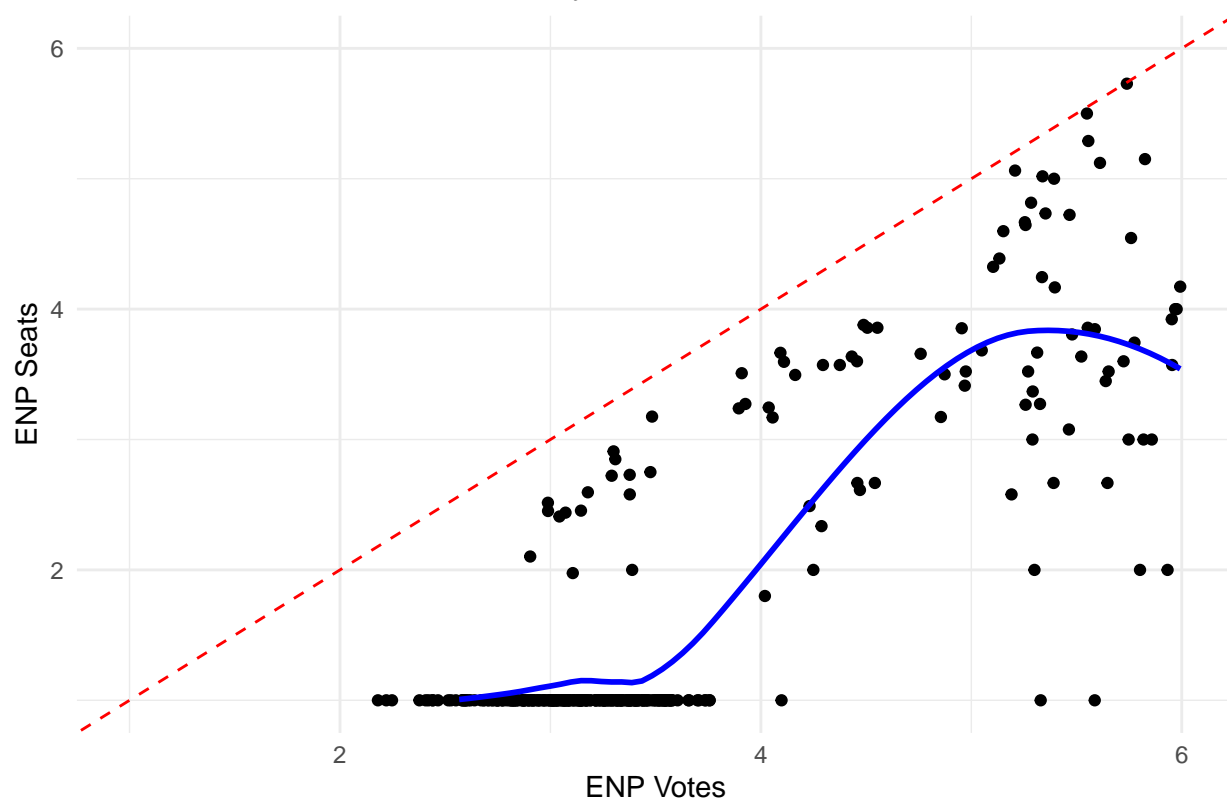
yr	cst	cst_n	enp_v	enp_s	mag
2018	220	Varese	2.939989	1.000000	1
2018	221	Vasto	3.069340	1.000000	1
2018	222	Velletri	3.213806	1.000000	1
2018	223	Venezia	3.569336	1.000000	1
2018	224	Verbania	3.012511	1.000000	1
2018	225	Vercelli	3.022968	1.000000	1
2018	226	Verona	3.496533	1.000000	1
2018	227	Vibo Valentia	3.358668	1.000000	1
2018	228	Vicenza	3.005460	1.000000	1
2018	229	Vigevano	2.823524	1.000000	1
2018	230	Vigona	2.750397	1.000000	1
2018	231	Villafranca Di Verona	2.867080	1.000000	1
2018	232	Viterbo	3.257740	1.000000	1
2018	233	Africa Asia Oceania Antartide	4.098160	1.000000	1
2018	234	America Meridionale	5.975704	4.000000	4
2018	235	America Settentrionale E Centrale	4.249310	2.000000	2
2018	236	Europa	4.295008	3.571429	5
2018	901	National	5.103662	4.324240	386

```
## Warning: Removed 14 rows containing non-finite outside the scale range
## ('stat_smooth()').
```

```
## Warning: Removed 14 rows containing missing values or values outside the scale range
## ('geom_point()').
```

```
## Warning: Removed 8 rows containing missing values or values outside the scale range
## ('geom_smooth()').
```


ENP Votes vs ENP Seats for Italy, 2013



Calculating ENP for all years from 2000-2025

'summarise()' has grouped output by 'cst'. You can override using the '.groups' argument.

Table 3: ENP for Italy, 2013, All Constituencies

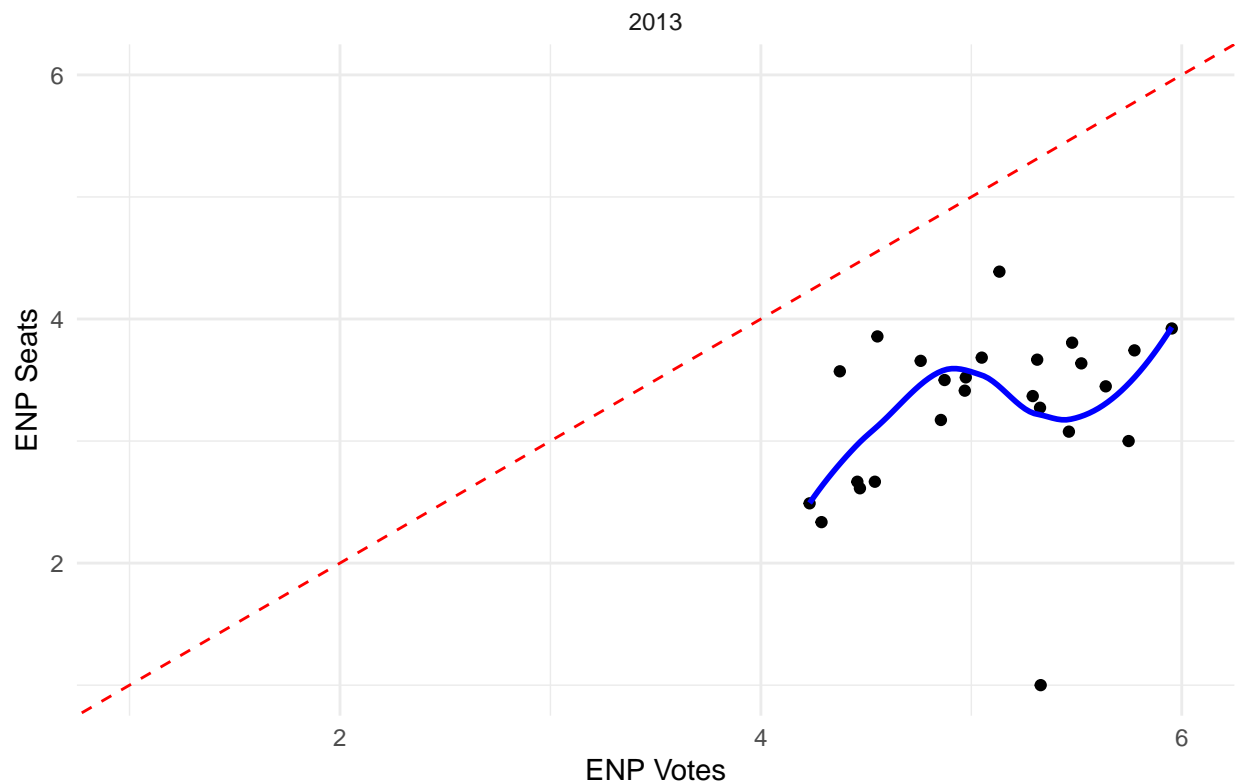
cst	cst_n	enp_v	enp_s	yr	mag
1	ABRUZZO	4.872879	3.500000	2013	14
2	BASILICATA	5.747558	3.000000	2013	6
3	CALABRIA	5.638730	3.448276	2013	20
4	CAMPANIA 1	5.049607	3.683453	2013	32
5	CAMPANIA 2	5.478985	3.805825	2013	28
6	EMILIA ROMAGNA	4.288112	2.335640	2013	45
7	FRIULI-VENEZIA GIULIA	5.326487	3.272727	2013	12
8	LAZIO 1	4.855469	3.172662	2013	42
9	LAZIO 2	4.759374	3.657143	2013	16
10	LIGURIA	4.458426	2.666667	2013	16
11	LOMBARDIA 1	5.463732	3.076923	2013	40
12	LOMBARDIA 2	5.775240	3.743068	2013	45
13	LOMBARDIA 3	5.291881	3.368421	2013	16
14	MARCHE	4.541739	2.666667	2013	16
15	MOLISE	5.329660	1.000000	2013	2

cst	cst_n	enp_v	enp_s	yr	mag
16	PIEMONTE 1	4.968968	3.412903	2013	23
17	PIEMONTE 2	5.312953	3.666667	2013	22
18	PUGLIA	5.133482	4.388060	2013	42
19	SARDEGNA	4.973753	3.521739	2013	18
20	SICILIA 1	4.375218	3.571429	2013	25
21	SICILIA 2	4.553770	3.857143	2013	27
22	TOSCANA	4.231503	2.489655	2013	38
23	TRENTINO-ALTO ADIGE	6.805908	3.789474	2013	12
24	UMBRIA	4.470770	2.612903	2013	9
25	VENETO 1	5.952565	3.922449	2013	31
26	VENETO 2	5.522756	3.636364	2013	20

```
## Warning: Removed 1 row containing non-finite outside the scale range
## ('stat_smooth()').
```

```
## Warning: Removed 1 row containing missing values or values outside the scale range
## ('geom_point()').
```

ENP Votes vs ENP Seats for Italy, 2013



Nationwide ENP in Italy

```
## 'summarise()' has grouped output by 'ctr_n'. You can override using the
## '.groups' argument.
```

Nationwide Effective Number of Italian Parties (ENP), 2000–2

