Proportional and Mixed Systems

PMCb1012 Elections and campaigning

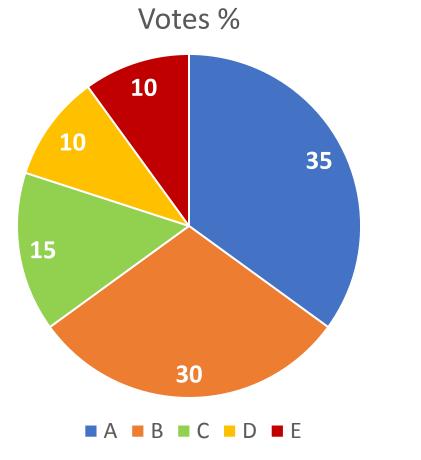
Elections

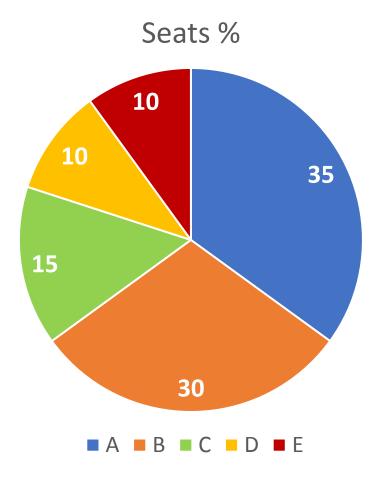
- A necessary but not a sufficient condition for democracies
- Various benefits:
 - Accountability
 - Representation
 - Legitimacy
 - A peaceful transfer of power (unlike a military coup)
 - Civic mobilization
- Only free and fair elections fulfil this role

Proportional Representation (PR) Systems

- Main aim distribution of seats resembles the proportion of votes
- Multi-member constituencies
- Two main categories:
 - List proportional representation
 - Single transferrable vote

Ideal proportionality





The reality might be quite different

A B C D E

Votes %

A B C D

Seats %

List Proportional Representation

- Parties create lists of their candidates for each constituency
- Voters have a single vote given to one political party
 - Some systems allow support some candidates within the party list
- A unique set of several features:
 - 1) Number and size of constituencies
 - 2) Allocation formula
 - 3) Threshold
- Their specific rules have key impact on true proportionality

Folketingsvalget 2001

Sæt × til højre for en listebetegnelse (et partinavn) eller et kandidatnavn. Sæt kun ét kryds på stemmesedlen.

A. Socialdemokratiet

Frode Sørensen	
Inger Bierbaum	
Dorte Dinesen	
P. Qvist Jørgensen	
Eva Roth	
Lise von Seelen	
Søren Ebbesen Skov	

B. Det Radikale Venstre

Nicolas Lund-Larsen	
Per Kleis Bønnelycke	
Bente Dahl	
Inger Harms	
Bjarke Larsen	
Henrik Larsen	

C. Det Konservative Folkeparti

Kaj Ikast	
Martin Andresen	
Bent P. Have	
Jens M. Henriksen	
Bente Lassen	
Lars Munk	
Klaus Rehkopff	

D. Centrum-Demokraterne

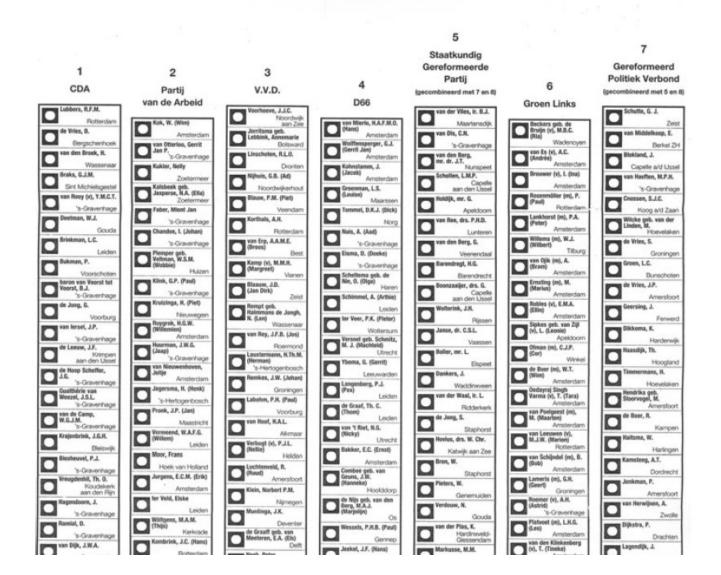
Henning Nielsen	
Henning Borchert-Jørgensen	
Helmuth Carstens	
Flemming Hübschmann	
Holger Madsen	
Peter Berthel Nissen	
Kai Paulsen	

F. Socialistisk Folkeparti

Bjarne Eliasen	
Bent Iversen	
Jesper Petersen	

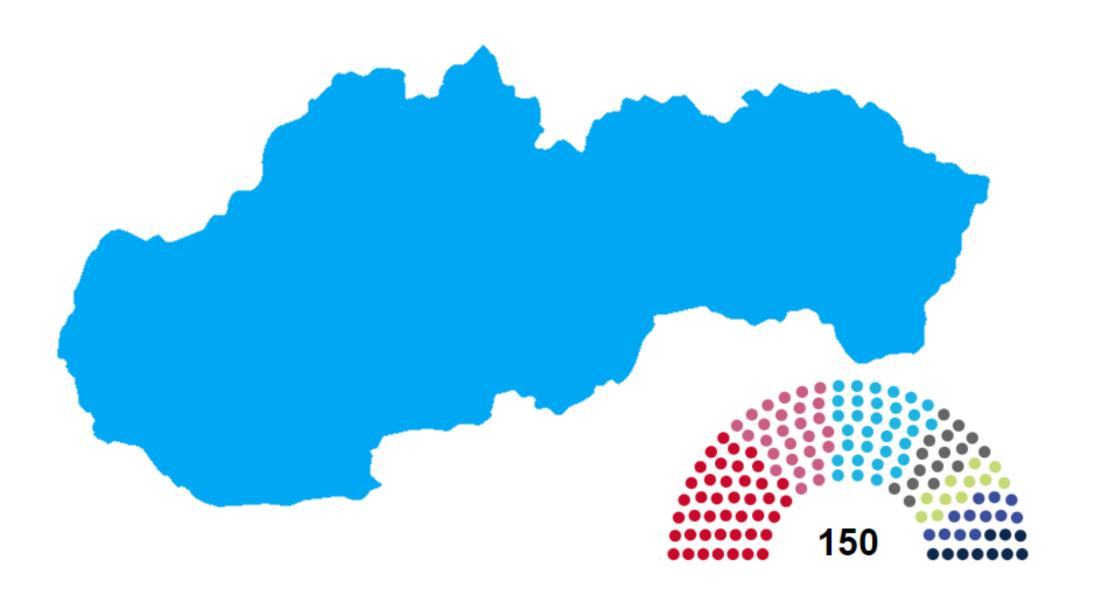
Stembiljet voor de stemming ter verkiezing van de leden van de Tweede Kamer der Staten-Generaal

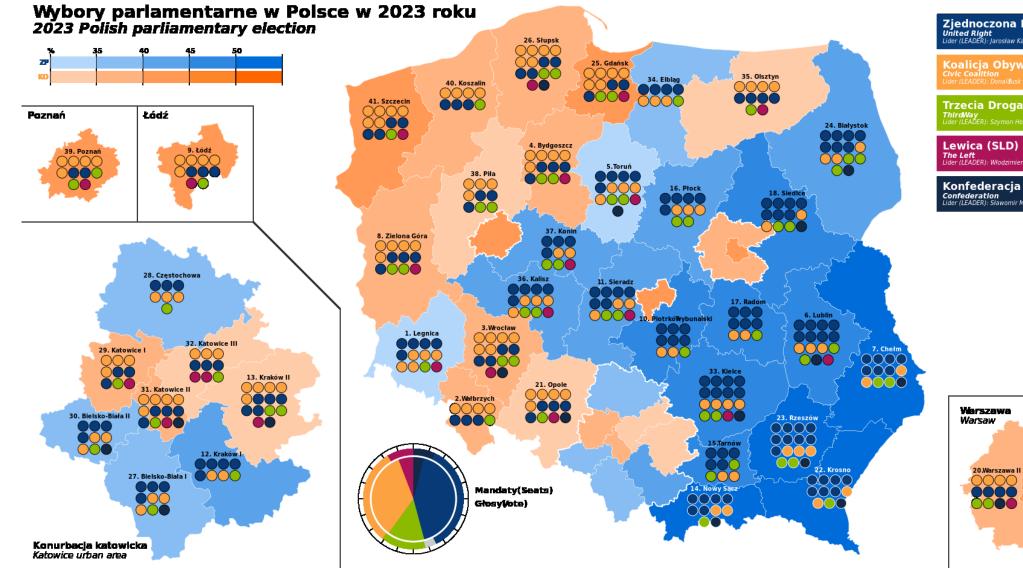
LIJSTEN VAN KANDIDATEN



1) Constituencies

- Always multi-member constituencies (>1 seat)
- Two options:
 - Countries divided into various constituencies most countries
 - A single nationwide constituency Netherlands, Slovakia
- Size of constituency (number of seats) is critical
- The main rule:
 - The smaller are the constituencies, the better for large parties





i jednoczona Prawica (ZP)	194
nited Right	MANDATY
Ier (LEADER): Jarosław Kaczyński	SEATS
oalicja Obywatelska (KO)	157
vic Coalition	MANDATY
er (LEADER): Donaldusk	SEATS
rzecia Droga (TD)	65
hIrdWay	MANDATY
Jer (LEADER): Szymon Holownia/Wiadysław Kosiniak-Kamysz	SEATS
ewica (SLD)	26
he Left	MANDATY
ler (LEADER): Wiodzimierz Czarzasty/Robert Biedroń	SEATS
Confederacja WKN)	18
onfederation	MANDATY
Jer (LEADER): Slawomir Mentzen/Krzysztof Bosak	SEATS



2) Allocation Formula

- A mathematical transformation of votes to seats
- Various ways
 - Quotas
 - Divisors
- Also impacts the final proportionality

Quota

- A set number of votes needed for one seat
- A party receives a seat for each time its votes pass the quota
- Most simple example the Hare quota
 - Number of all valid votes / number of seats
 - If we have 1,000 votes and 20 seats then the quota is:
 - 1,000 / 20 = 50 votes
 - \rightarrow parties receive a seat for each acquired 50 votes

Party	Votes	Quota	Seats 1	Remaining votes	Seats 2	Seats final
А	415		8	15		8
В	340	1,000 / 20 =	6	40	1	7
С	165	50	3	15		3
D	80		1	30	1	2
	1,000		18		2	

Divisor

- Alternative to quota
- Votes of parties are divided by a series of growing numbers
- Seats are distributed based on results of division
- D'Hondt divisor: 1,2,3,4,5,6,7,...

Example



- 4 parties
- 20 seats to distribute

Darty	Votes	Votes divided by										
Party	Party Voles	1	2	3	4	5	6	7	8	9	10	
А	415	415	208	138	104	83	69	59	52	46	42	
В	340	340	170	113	85	68	57	49	43	38	34	
C	165	165	83	55	41	33	28	24	21	18	17	
D	80	80	40	27	20	16	13	11	10	9	8	

Now only 11 seats

Darty	Votes	Votes divided by										
Party Votes	Party	1	2	3	4	5	6	7	8	9	10	
A	415	415	208	138	104	83	69	59	52	46	42	
В	340	340	170	113	85	68	57	49	43	38	34	
C	165	165	83	55	41	33	28	24	21	18	17	
D	80	80	40	27	20	16	13	11	10	9	8	

And now only 4 seats

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A	415	415	208	138	104	83	69	59	52	46	42	
В	340	340	170	113	85	68	57	49	43	38	34	
C	165	165	83	55	41	33	28	24	21	18	17	
D	80	80	40	27	20	16	13	11	10	9	8	

Why size of constituencies matters

Party	Votes	Votes %	4 seats	11 seats	20 seats
А	415	41.5	2	5	9
В	340	34.0	2	4	7
С	165	16.5	0	2	3
D	80	8.0	0	0	1



A B C D

You can also switch the divisor (example with 11 seats)

Dorty	Votos	Imperiali - votes divided by										
Party	Votes	2	3	4	5	5 6 7 33 69 59 58 57 49	7	8				
А	415	208	138	104	83	69	59	52				
В	340	170	113	85	68	57	49	43				
С	165	83	55	41	33	28	24	21				
D	80	40	27	20	16	13	11	10				

Dorty	Votos	Saint-Laguë - votes divided by						
Party	Votes	1	3	5	7	9	11	13
A	415	415	138	83	59	46	38	32
В	340	340	113	68	49	38	31	26
C	165	165	55	33	24	18	15	13
D	80	80	27	16	11	9	7	6

3) Threshold

- A minimum percentage of votes a party must pass to obtain seats
- Typically around 5%
- National v. regional
- Impact on:
 - Level of fragmentation of elected bodies (parliaments, assemblies)
 - Stability of governments
 - Level of political representation

Details are essential

- Proportional representation is only a general term
- Necessary to know the specific features
- Real outcomes might not be *that proportional*
- Are some proportional systems truly proportional?

Impact of PR systems

- Representation of various interests (and parties)
- Reduced waste of votes
- Allow survival of minority parties
- Lower candidates' accountability
- Coalition governments

Country	Number of parties	Strongest party	Government
Austria	5	31,5	Coalition
Belgium	12	16,0	Coalition
Bulgaria	6	25,4	Coalition
Croatia	8	37,3	Coalition
Czech Republic	4 (7)	27,8	Coalition
Denmark	12	27,5	Coalition
Estonia	6	28,9	Coalition
Finland	10	20,8	Coalition
Greece	8	40,6	Single party
Latvia	7	19,2	Coalition
Luxembourg	7	29,2	Coalition
Netherlands	15	23,5	Coalition
Poland	5 (17)	29,1	Coalition
Portugal	10	41,4	Single party
Romania	5	28,9	Coalition
Slovakia	7	23,0	Coalition
Slovenia	5	34,5	Coalition
Spain	11	33,1	Coalition
Sweden	8	30,3	Coalition













Mixed Systems

- Systems based on (at least) two tiers:
 - Nominal Majority/Plurality mechanism
 - List Proportional representation
- Share of seats assigned to each tier:
 - Equal distribution nominal tier 50%, list tier 50%
 - Prevalence of one tier for instance nominal tier 75%, list tier 25%
- Voters usually have two votes, one for each tier
- The best of both worlds?

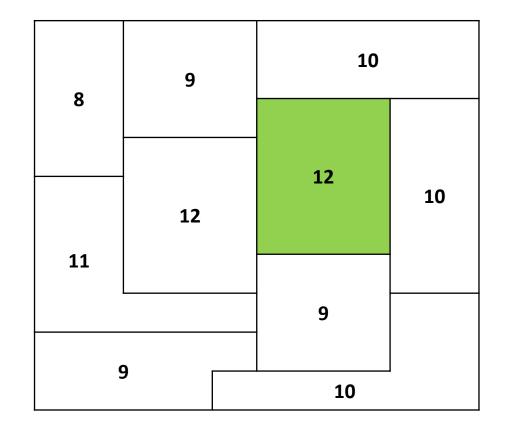
Example

- Parliament has 200 seats
- Nominal tier (100 seats):
 - Country divided into 100 single-member districts
 - FPTP rules
- List tier (100 seats):
 - Country divided into 10 multi-member districts (8-12 seats each)
 - List PR system

Nominal tier

List tier

1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1



Linkage Between the Tiers

- Critical for effects of mixed systems
- Parallel system:
 - The tiers work completely independently
 - Seat distribution is separated for to tiers
 - Basically two different electoral systems existing next to each other
- Compensatory system:
 - Existing linkage between the tiers
 - Typically some sort of compensation to lower advantage of large parties
 - List tier used as a protection of small parties

Lithuania (Parallel)

- Lithuanian parliament Seimas (141 members)
- Nominal tier:
 - 71 seats in single-member districts
 - Majoritarian run-off system
- List tier:
 - 70 seats in one nationwide constituency
 - List PR system

Lithuanian 2020 election

Party	List tier		Nominal 1		Nominal 2		Total seats
Party	Votes %	Seats	Votes %	Seats	Votes %	Seats	Total scats
TS-LKD	25.8	23	24.2	1	40.2	26	50
LVZS	18.1	16	15.2	0	23.6	16	32
DP	9.8	9	7.9	0	0.9	1	10
LSDP	9.6	8	11.8	0	8.5	5	13
LP	9.5	8	6.5	0	8.1	3	11
LRLS	7.0	6	9.3	0	6.9	7	13
Others	20.2	0	25.1	2	11.8	10	12

Italy 1994-2001 (Compensatory)

- 630 seats
 - 475 seats in nominal tier (FPTP)
 - 155 seats in list tier (PR)
- Linkage (Scorporo):
 - Penalty for large parties winning in the nominal tier
 - Each victory in nominal tier leads to penalty in list tier
 - Penalty = votes needed for the victory in nominal tier
- Huge disproportionality in favour of nominal tier

Scorporo - example

Candidate	Party	Votes
A	AAA	50 000
В	BBB	30 000
С	CCC	15 000
D	DDD	10 000

- Penalty for party AAA:
 - Votes of the second best candidate +1 (votes needed for victory)
 - Party AAA will lose 30,001 votes in the list tier

It worked for a while (1994 election)

Alliance / Party	Nominal seats	PR votes %	PR seats	Seats
Polo Delle Libertá			64	
Forza Italia – CCD (FI-CCD)	202	21,0	30	366
Alleanza Nazionale (AN)	- 302	13,5	23	
Lega Nord (LN)		8,4	11	
Alleanza Dei Progressisti			49	
Partito Dem. della Sinistra (PDS)	164	20,4	38	213
Partito della Rif. Comunista (RF)		6,1	11	
Others	9	16,6	42	50
Sum	475	-	155	630

It worked for a while (1996 election)

Alliance / Party	Nominal seats	PR votes %	PR seats	Seats
L'Ulivo			38	
Partito Dem. della Sinistra (PDS)		21,1	26	
Popolari-SVP-PRI-UD-Prodi	247	6,8	4	285
Lista Dini		4,3	8	
Federazione dei Verdi		2,5	-	
Polo Delle Libertá			77	
Forza Italia (FI)	1.00	20,6	37	246
Alleanza Nazionale (AN)	169	15,7	28	246
CCD-CDU		5,8	12	
Lega Nord	39	10,1	20	59
Others	20	8,8	20	40
Sum	475	-	155	630

Failure of scorporo (2001 election)

Alliance / Party	Nominal seats	PR votes %	PR seats	Seats
Casa Delle Libertá		49,6	86	
Forza Italia (FI)	282	29,4	62	368
Alleanza Nazionale (AN)		12	24	
ĽUlivo		34,9	58	
Democratici di Sinistra (DS)	189	16,6	31	247
La Margherita (DL)		14,5	27	
Partito D. R. Comunista (RF)	4	5,5	11	15
Spolu	475	-	155	630

How the system failed

- Italian parties developed a strategy to avoid scorporo
- Candidates in nominal tier with decoy partisan affiliation
- Penalty accounted to these decoys (Abolizione scorporo, Paese nuevo)
- Real parties faced no penalties
- Formally compensatory \rightarrow parallel in reality

Mixed Systems - Summary

- Various configurations of the tiers
- Allow more strategies to voters (ticket splitting)
- Political scientists differ in their evaluation
 - Personal ties between voters and elected officials
 - Wasted votes, representation, governance
- Best or worst of the both worlds?