

BETTER CHOICES

Voting System Alternatives for Canada





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EXECUTIVE SUMMARY

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INTRODUCTION & CONTEXT

- This paper models how five different voting systems could work for Canada, and the impacts those systems could have beyond electoral politics.
- The paper is being released at a time when the Government of Canada and Parliament of Canada are actively considering an alternative system to first-past-the-post, and inviting Canadians to contribute to the conversation.
- Voting systems are the foundation of our public institutions. These systems determine what Parliament looks like, and influence the quality and brand of executive government, and the quality of laws, government services and programs that affect every Canadian.
- In the paper, we offer 'proof of concept' models for five voting systems that could be used in Canada. The key element of each model is the electoral district map and associated ballots.
- Any change in the federal electoral system would be constrained by the political boundaries of the provinces. A change in federal electoral system, means changing how the citizens of the provinces decide who should represent their province in Ottawa.
- We provide proof of concept electoral district maps for each system in three provinces:
 - a small province of 10 MPs (New Brunswick),
 - a mid-sized province of 42 MPs (British Columbia), and
 - a large province of 78 MPs (Quebec).
- The models are based on three provinces that vary in size because the Canadian constitution demands that each member of Parliament be elected from a province or a territory. The proportional representation systems modelled in this paper vary slightly in how electoral districts appear depending on the size of each province, and population density and distribution.
- A Special Committee on Electoral Reform has been struck by Parliament appears to be considering the five systems modeled here. At the time of writing, however, there have been no electoral-district-map-based models produced for any of the alternate systems for the committee or Canadians to consider. We present these here.
- Finally, we evaluate each system's performance against eight criteria: (1) Vote fairness and accountability; (2) Voter participation; (3) Simplicity, (4) A strong Parliament; (5) Collaborative politics; (6) Effective government; (7) Geographic representation; (8) Women's representation
- This paper mirrors a report titled "Better Choices Nova Scotia" released earlier this year as part of Springtide Collective's Make Democracy Better project. Through this project, over 400 Nova Scotians participated, and expressed a clear desire to 'improve the voting system' in Nova Scotia, and

one can presume, they may have similar hopes for federal politics.

VOTING SYSTEM OPTIONS FOR CANADA

• There are two main families of voting systems used throughout the world and modeled in this paper: winner-take-all systems, and proportional representation (PR) systems. The winner-take-all systems modeled in this paper are characterized by single-member districts where the winner is the candidate who receives the most votes - a plurality in the case of the first-past-the- post system or a majority in the case of the alternative vote system. In both winner take all systems modeled in this paper, the number of districts and MPs both remain at 338 (the current number).

Winner-Take-All Systems

- First-Past-the-Post (FPTP): In the FPTP system voters mark their ballots for one candidate only, and the candidate with more votes than any other candidate wins, regardless of whether or not they have a majority.
- Alternative Vote (AV): In the AV system voters rank the candidates on
 the ballot in order of preference. If one candidate receives a majority of
 first choice votes, they are elected. If no candidate receives a majority of
 first preference votes, the candidate with the fewest votes is eliminated,
 and a second round of counting occurs, where the lowest ranking
 candidate's votes are redistributed to the second choice marked on
 each ballot. The process repeats itself until one candidate receives a
 majority of votes.

Proportional Representation Systems

- In **proportional representation** systems the share of the popular vote a party and its candidates earn are reflected in the number of seats the party holds in Parliament. In all but one of the proportional systems modelled in this paper, this is done through the use of large multi-member districts. The list PR systems modelled here involve more than 338 MPs, since additional 'adjustment seats' are added in each province. A total of 68 seats would be added to Parliament based on this model. However, an electoral boundaries commission with the right resources could easily propose a functional list PR system with 338 seats.
- List Proportional Representation (List PR): In list PR systems voters cast one vote for either the party (if the system uses a closed list) or a candidate from that party (if the system uses an open list). In both cases the vote counts towards the total share of seats awarded to that party. In the model illustrated here, anywhere from two to twelve MPs per district. The district borders follow naturally distinct communities, and the number of MPs is based on the population within the borders. In each province, a set of "adjustment seats" would be allocated province-wide to improve proportionality of the final results, where seats are not assigned to a particular district.

FINDINGS: SYSTEM PERFORMANCE AGAINST CRITERIA

Based on the research reviewed for this paper, our evaluation of each of the voting systems against the criteria noted above is summarized below.

| | Winner-Take-All Systems | | Proportional Representation Systems | | | |
|--|---|--|--|---|---|--|
| | First-Past-the-Post (FPTP-CAN) | Alternative Vote (AV-CAN) | List Proportional Representation (List PR-CAN) | Mixed Member Proportional (MMP-CAN) | Single Transferable Vote (STV-CAN) | |
| VOTE FAIRNESS & ACCOUNTABILITY | - Disproportionate results - High number of wasted votes - Low vote equality - Difficult for voters to hold parties and governments to account | | Results are proportionate 95 - 99% of the time. Low number of wasted votes High vote equality: generally separate from party preference, or voter's district. Easy for voters to hold parties to account Governing coalitions are formed without direct consent | | | |
| Accountability of Representatives | - Vote-splitting means a candidate can be opposed by a majority of voters and still be elected, and re-elected | - If a majority of voters oppose a candidate, they can prevent that candidate's election or re-election | of voters - Individual candidates held to account by constituents through open list voting. | - Local representatives are held to account as with FPTP - Voters have no influence over candidates elected via the | - All candidates held account- able by their district and must earn the support of voters | |
| VOTER PARTICIPATION | Winner-take-all syste | ems have lower voter | Proportional system than winner-take-a | closed party list. ms have higher vote | er participation | |
| 30 Year Voter Turnout Average (1986-2016) | 59.9% | - No available data | 68.3 % | 76.6% | 70.4% | |
| SIMPLICITY CASTING VOTES | Simple | Casting votes is more complicated than in FPTP, but simple to explain | - More complicated ballot with open list voting, still relatively simple to vote | - The two-vote, one-ballot system is simple to explain and use | - Ballot is complicated of involving ranked voting and large numbers of candidates | |
| UNDERSTANDING THE RESULTS | - Easy to understand district results - Can be difficult to understand disproportionate election results | - Easy to understand district results - Can be difficult to understand disproportionate election results | - The allocation of adjustment seats can make the results in this system harder to understand | - The use of adjustment seats can make it hard to understand how proportionality is achieved | - Voters must understand how fractional vote transfers, quotas, and surplus votes work to understand election results | |
| STRONG PARLIAMENT | - The single governing party most often holds a majority of seats in Parliament, preventing meaningful exploration of policy alternatives, amendments to legislation or the adoption of opposition legislation - Filibustering frequently used by opposition to delay and inconvenience the government - Large parties dominate Parliament; few small parties are represented - Minority governments are less common, and when present, increase the relevance of Parliament | | - Single-party-majority governments are rare, so governments face a stronger test when meeting a parliament that can easily 'make or break' a government through confidence votes - Opposition members can propose alternative legislation and propose amendments to government legislation, and see meaningful consideration and debate on those proposals - Large parties play a dominant role in Parliament and in government; Small parties win more seats in PR systems and are sometimes junior partners in coalitions | | | |
| | | - More small parties field candidates in AV elections, but can be even less likely to be elected than in FPTP | | | | |

| | Winner-Take-All Systems | | Proportional Representation Systems | | | |
|--------------------------------------|--|--|--|---|--|--|
| | First-Past-the-Post | Alternative Vote | List Proportional Representation | Mixed Member Proportional | Single Transferable Vote | |
| COLLABORATIVE POLITICS | adversarial dialogue differences between finding areas of com - In minority governi | there is little need ment or supply and ents. to adopt a pattern of that exaggerates the parties, rather than mon agreement ments, there are is to collaborate, and ice agreements are | - Coalition governments are most common form of government, requiring collaboration between member parties, - Single party majority governments are rare, while coalition governments are the most common and negotiate supply and confidence agreements as needed | | | |
| EFFECTIVE GOVERNMENT Strength | Single-party majori not have to negotiat and can quickly mak implement election | e with other parties te decisions and | - Coalition governments may take longer to reach decisions as negotiations between governing parties (and potentially with Parliament) is required | | | |
| Leadership Stability | - Elections occur on years - Minority governme unstable than major office for shorter pe | average every 3.2 ents are more rity ones, holding riods of time nents typically involve | - Elections occur on average every 3.3 years - Strong continuity of parties that form government, where at least one party in a governing coalition finds itself in the coalition formed after the subsequent election, leading to a relay-race-like pattern of policy continuance | | | |
| Policy Stability & Responsiveness | - Policy stability in m governments is ofte the governing party - Many policies and l scrapped, or reverse the governing party | n only lasts as long as holds power laws are often ed completely when | - Policies are more stable over time - Government policies align more closely with the views and values of the 'median voter' - Policies outperform winner-take-all systems in various areas including: economic growth, human development environmental sustainability, and reductions in income inequality | | | |
| GEOGRAPHIC REPRESENTATION | - Local representation via single-member-districts only - Local issues from swing ridings, and ridings represented by members of the governing party carry disproportionate weight on the statewide agenda | | - Every elected representative is accountable to the voters in a specific region of the province - Multiple members representing each district mean that no single politician or party can claim to be the voice for the entire district | - Strong balance between local interests and statewide interests due to local and statewide representation | - Every elected representative is accountable to the voters in a specific area of the province - Multiple members represent each district, no single candidate or party can claim to be the voice for the entire district | |
| WOMEN'S REPRESENTATION | Fewer women represented in parliaments | | More women represented in parliaments | | | |
| Seats held by women: (1996-2016) | 17.6% | 25.0 % | 28.8% | 30.2% | 30.1% | |
| Seats held by women in 2016 | 21.8% | 26.7% | 33.7% | 33.6% | 34.2% | |

- Mixed Member Proportional (MMP): The mixed member proportional (MMP) system combines elements of FPTP and List PR. Voters cast two votes: one for a local candidate; another for their preferred party. After the local district candidates are elected, the party votes are considered, and candidates are drawn from the party's list and into Parliament to ensure that the total number of seats held by each party are roughly proportional to the party vote for each party.
- Single Transferable Vote (STV): In the STV system, voters rank candidates in multi-member districts in order of preference. A formula based on the number of votes cast, and seats available is used to calculate a winning quota or threshold of votes required to win. Candidates who reach or exceed the quota are elected, and surplus votes (votes for a winning candidate that exceed the quota) are transferred and redistributed in subsequent rounds, until enough candidates reach the quota required to fill the available seats. Votes for last placed candidates are considered and redistributed once surplus votes are redistributed in each round, if no candidate reaches the quota. The number of MPs per List PR district can varies from 3 7 in this model based on the size of the population within the district boundaries.
- Candidate selection: Despite common misconceptions, in both winner-take-all and PR voting systems, party members can influence what candidates represent each party in an election, and in each system modelled here voters have influence over which candidates from each party get elected. Independent candidates can also seek election in each system.

NEXT STEPS

The findings of this paper are meant to inform the national discussion on voting system reform in Canada. The Special Committee on Electoral Reform (ERRE), Members of Parliament, and the Minister of Democratic Institutions are inviting Canadians to contribute to the discussion on electoral reform. We hope this paper can help both parliamentarians and Canadians have an informed discussion about the options available beyond first-past-the-post.

Events and information pertaining to the ERRE process can be found at Canada.ca/Democracy and through the constituency office of your local Member of Parliament.

III) FIVE VOTING SYSTEM MODELS FOR CANADA

First-Past-the-Post & Alternative Vote Electoral Districts Map





First Past the Post Ballot & Instructions



Where this system is used: Canada, United States, United Kingdom, India.

How it works:

One candidate will be elected for your district. To win, a candidate must earn more votes than all other candidates.

Alternative Vote Ballot & Instructions

Alternative Vote

This is a preferential ballot.

Place the number "1" in the space next to the candidate who is your first choice, and rank any additional preferences you wish to make in the order of your preference starting with the number "2".

2

Agnes MACPHAIL
Pioneer Party

3

Celine DION Bonhomme Party

4

Candy PALMATER
Beavertail Party

1

Alan SYLIBOY Maple Party Where this voting system is used:

Australian House of Representatives, Political Party Leadership Races, Academy Awards Voting

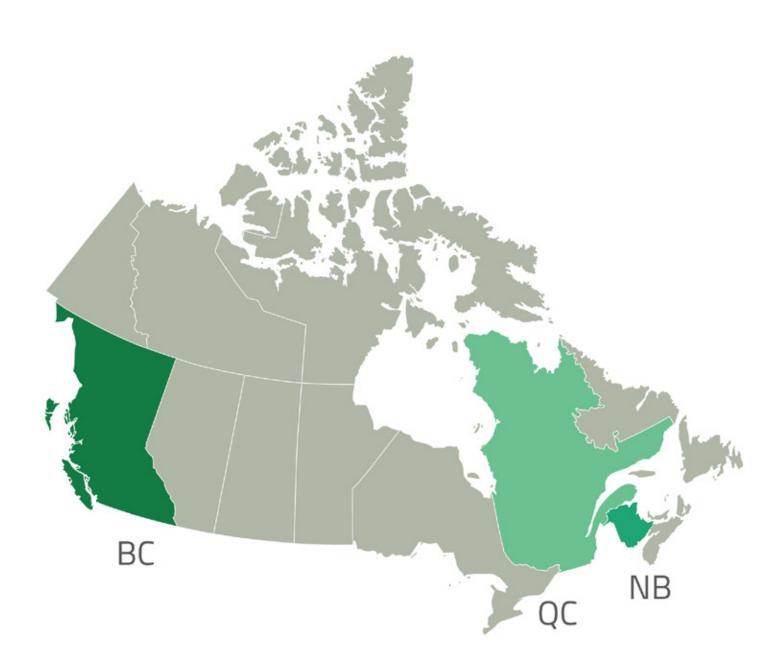
How it works:

One candidate will be elected for your district. To win, a candidate must earn more than 50% of the vote. If no candidate receives more than 50% of the vote after first preferences are counted, the second choices of the candidate with the fewest votes will be redistributed and so on until a candidate receives 50% of the remaining votes.

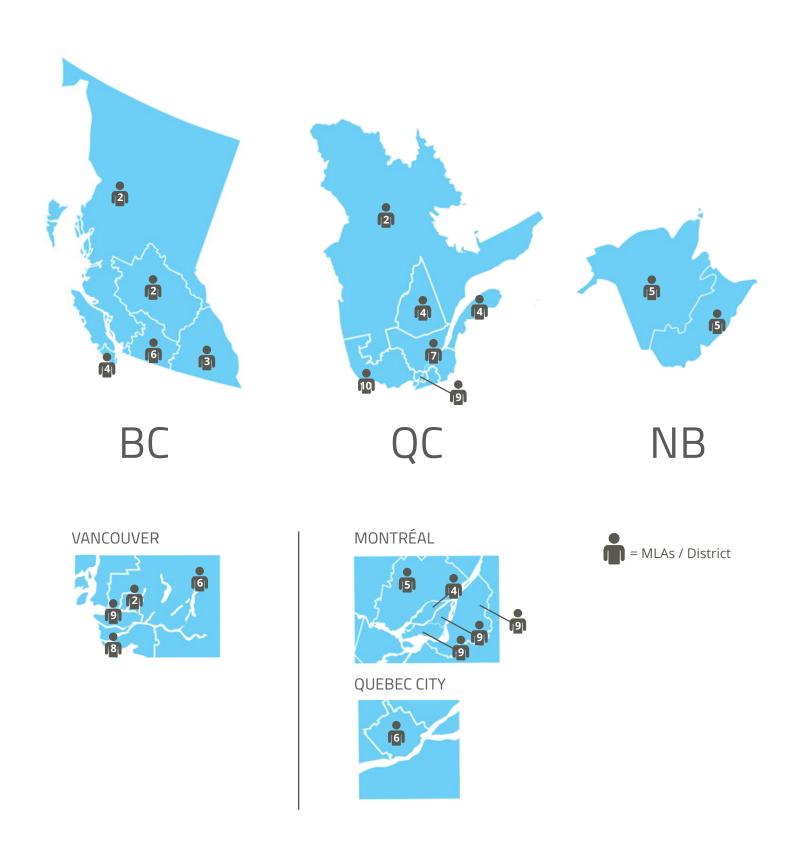
Model Provinces: BC, QC, NB

For the proportional representation system that follow, we present 'proof-of-concept' maps for three provinces' federal electoral districts, where we've chosen provinces with a range of population sizes. We present:

- a small province (New Brunswick)
- a mid-sized province (British Columbia)
- a large province (Quebec)



List Proportional Representation Electoral Districts Maps



List Proportional Representation Ballot & Instructions

Open List Proportional Representation

You have one vote.

Place an X in the space next to the candidate for whom you wish to vote. Your vote counts for both your candidate and the party they belong to.

| Pioneer Party | Bonhomme Party Beavertail Party | | Maple Party | Independent Candidate |
|----------------|---------------------------------|-------------------------|------------------------|--------------------------|
| Agnes Macphail | Celine Dion | Bruce Guthro | Ellen Page | Rick Mercer |
| Rocket Richard | Rock Voisine | Tommy Chong | X Portia White | Colin Mochrie |
| Vince Coleman | Louise Arbour | George Elliot Clarke | Alan Syliboy | |
| Viola Desmond | Mario Lemieux | Candy Palmater | Buffy Sainte- Marie | |

Countries that use this system:

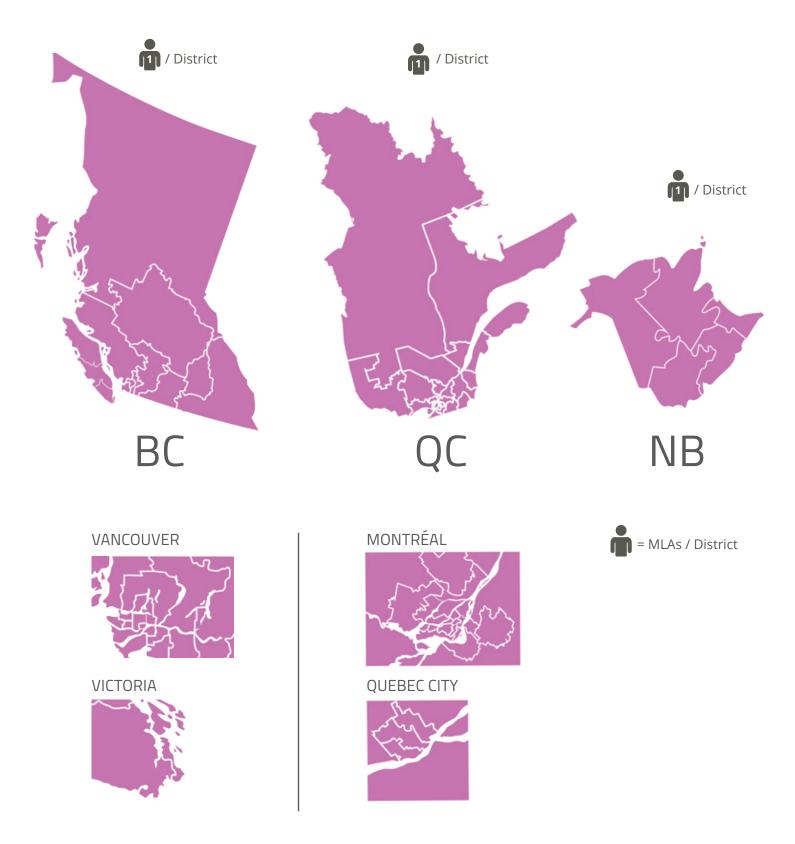
Sweden, Netherlands

How it works:

The number of votes received by each party will determine the share of seats they hold in Parliament.

The candidates who receive the most votes within each party will rank higher on their party lists, and be the first to receive a seat in Parliament when their party has earned enough votes.

Mixed Member Proportional Electoral Districts Maps



Mixed Member Proportional Representation Ballot & Instructions



Countries that use this system:

New Zealand, Germany, Lesotho,

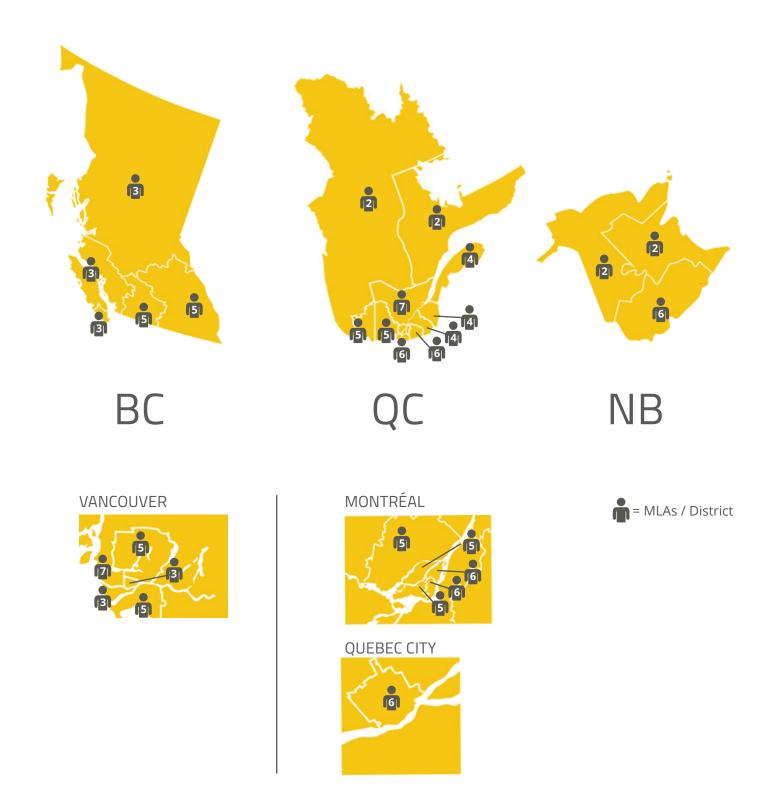
How it works:

District Vote: To win a candidate must earn more votes than all other candidates.

Party Vote: After the winners of the local district elections are known, the party vote will be used to ensure that - of the seats in parliament for that province - the total share held by each party roughly matches the total share of party votes received in that province. The candidates who appear highest on the list provided by each party will be the first to receive a seat in Parliament when their party has earned enough votes.

^{*} While we model a closed list ballot here, an open list MMP ballot is also possible, where the party vote resembles the ballot previously modelled for List PR.

Single Transferable Vote Electoral Districts Maps



Single Transferable Vote

Ballot & Instructions



Countries that use this system:

Ireland, Australian Senate, Malta

How it works:

Depending on the size of your district, 2 - 9 candidates will be elected.

If less than five candidates meet the threshold required to win initially, votes will be transferred based on the rankings provided, as many times as necessary until five candidates have reached the threshold. The threshold is calculated as follows: