Politicians' Theories of Voting Behavior*

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Abstract

While political scientists regularly engage in spirited theoretical debates about elections and voting behavior, few have noticed that elected politicians *also* have theories of elections and voting. Here, we investigate politicians' positions on eight central theoretical debates in the area of elections and voting behavior and compare politicians' theories to those held by ordinary citizens. Using data from face-to-face interviews with nearly 1,000 politicians in eleven countries, together with corresponding surveys of more than 12,000 citizens, we show that politicians overwhelmingly hold thin, minimalist, "democratic realist" theories of voting, while citizens' theories are more optimistic and policy-oriented. Politicians' theoretical tendencies – along with their theoretical misalignment from citizens – are remarkably consistent across countries. These theories are likely to have important consequences for how politicians campaign, communicate with the public, think about public policy, and represent their constituents.

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> "The Labor Party is not going to profit from having these proven unsuccessful people around who are frightened of their own shadow and won't get out of bed in the morning unless they've had a focus group report to tell them which side of bed to get out."
>
> — Paul Keating, 2007

> "I could stand in the middle of Fifth Avenue and shoot somebody, and I wouldn't lose any voters."
>
> — Donald Trump, 2016

1 Introduction

Do voters select parties that will implement their desired policies, or are they largely concerned with seeing their political team win and the other team lose? When voters support a party, do they focus on the character and competence of the party leader, or are they primarily interested in the party's policy commitments? Are voters *prospective*, oriented to the future, or are they *retrospective* and oriented to the past? These kinds of questions are central to political science research on elections and voting behavior. The theories that researchers have developed to answer them are among the most well-known and widely debated in political science.

Elected politicians figure prominently in these theories: their policy commitments, career aspirations, and campaign tactics are central to many political science accounts of how elections work. Yet politicians also have their *own* beliefs about elections and voting. Sit with a politician as the room empties after a town hall meeting, or accompany a politician as they walk from door to door on the campaign trail, and you will soon discern the outlines of *their* theories of why citizens vote, how voters make their choices, and the forces that shape citizens' political beliefs. When a politician complains that their party is too obsessed

with focus groups, or brags that they could shoot a person in the street without electoral consequence, these comments tell us something not only about the politician's personality and values but also offer clues about their working theories of elections and voting behavior.

These working theories have often gone unnoticed by political scientists, but there is good reason to expect that they matter a great deal for politics. Political science research on "lay theories" of politics, while limited, has consistently found that these theories are strongly related to political behavior and policy attitudes among both citizens and political elites (Kertzer and McGraw, 2012; Rad and Ginges, 2019); for instance, politicians who think of their constituents as policy-oriented rather than identity-oriented report spending more time on policy-related tasks (Lucas, Sheffer and Loewen, 2023), and politicians who think of constituents as oriented toward the long-term are more likely to take a long-term perspective when facing temporal tradeoffs in policy choices (Sheffer, Loewen and Lucas, 2023). Moreover, recent work suggests that the more politicians believe voters will retroactively hold them accountable, the more time and effort they spend gathering public opinion information (Soontjens and Walgrave, 2021). Hence, politicians' implicit theories matter; they create "psychological worlds" (Dweck, 2012, 39) that shape their expectations about others, and how they themselves behave.

We can gain an especially clear picture of politicians' theories of elections and voting behavior by comparing politicians' beliefs to those of ordinary citizens. Because citizens are unlikely to have reflected deeply on the forces that shape elections and voting behavior, their implicit theories are likely to be less well-structured and reflect more top-of-mind assumptions. Comparing politicians' theories to those of their constituents thus allows us to understand if politicians develop *distinctive* theories. Moreover, theoretical misalignment between politicians and citizens may have consequences of its own for elite-mass communication and even, in some cases, for political representation and citizens' democratic satisfaction.

Here, we use data from face-to-face structured interviews with nearly 1,000 elected national and regional politicians in eleven countries, along with surveys of over 12,000 citizens,

to provide a first-ever systematic analysis of politicians' theories of elections and voting behavior. We find that elected politicians hold widely varying beliefs on central theoretical debates in political science: debates about retrospective versus prospective voting, policy-driven versus leader-driven electoral selection, voter knowledge versus ignorance, and more. To clarify these theories, we estimate the latent theoretical types that lay beneath politicians' responses and find that nearly three-quarters of politicians embrace a "thin" or "minimalist" theory of voting behavior, one that broadly resembles "democratic realism" (Achen and Bartels, 2016). Comparing politicians' theories to ordinary citizens, we find that politicians' beliefs differ dramatically from those of the citizens they represent: in nearly every country we study, politicians are more likely than citizens to see voters as leader-oriented rather than policy-oriented, retrospective rather than prospective, egocentric rather than sociotropic, focused on single issues rather than multiple issues, concerned about the short-term rather than the long-term, and "blind" rather than "clear-eyed" in their retrospection. While nearly three quarters of politicians embrace a "thin" and realist theory of voting behavior, citizens are much more evenly divided between the realist perspective and an alternative theory in which voters are more policy-oriented, knowledgeable, and engaged.

2 Politicians' Theories and their Consequences

Theories of elections and voting are empirical accounts of election outcomes and the voting behavior that generates them. Theoretical beliefs are distinguished from other beliefs in being conceptual, explanatory, and predictive (Gopnik and Meltzoff, 1998; Gelman and Legare, 2011). Theories are *conceptual* in the sense that they provide concepts (e.g. "retrospective voting") with which to organize the world into meaningful categories and explain empirical phenomena. Theories are *explanatory* in that they provide plausible causal accounts of events and outcomes; explanatory statements like, "the President lost because citizens were upset about the economy" imply underlying theories of voting behavior. Finally, theories are *predictive* in that they enable individuals to develop expectations about the consequences of

their actions; statements like, "there is no way the party machine will allow him to become the Presidential nominee" are predictions grounded in implicit theories (Lucas, Sheffer and Loewen, 2023).

To make this more concrete, an example may be helpful. In *spatial voting theory*, each voter is typically assumed to hold a bundle of policy preferences that can be meaningfully summarized in some low-dimensional latent space (often characterized as a left-right spectrum); this bundle is called an "ideal point." Political candidates and/or parties compete with one another by proposing their own bundles of policy promises; voters consider these promises and select the party or candidate whose proposed ideal point is closest to their own in latent space (Downs, 1957). This theory provides a set of concepts (ideal points, spatial proximity) with which its users can provide explanations of electoral outcomes ("Party A had become too extreme, allowing Party B to build a new coalition of centrist and left-of-centre voters") and make related predictions about the future.

A starkly contrasting theory of elections and voting is Christopher Achen and Larry Bartels's (2016) *democratic realism*. Synthesizing decades of political science research, together with their own original analysis, Achen and Bartels argue that voters are decidedly incapable of making choices based on calculations of spatial proximity. Instead, most voters make choices based on longstanding group identities and vague, short-term assessments of their well-being. Democratic realism not only provides theoretical concepts of its own (e.g. "blind retrospection"), but also offers very different explanations and predictions than those that arise from, among others, spatial voting theory.

These competing theories offer very different organizational, predictive, and explanatory perspectives on politics. Importantly, to the extent that these or other theories are held by *politicians* who are actively involved in politics, they are likely to generate widely varying behavior. In a study of Canadian local politicians, for example, Sheffer, Loewen and Lucas (2023) found that politicians who believe voters focus on the short-term are significantly more likely to opt for short-term rather than long-term solutions when facing temporal

policy tradeoffs (Jacobs, 2011). Politicians' theories of voters have also been found to shape their responsiveness to public opinion (Soontjens, 2022) and their choices about how they allocate their available working time, with "democratic realist" politicians spending less time on policy-related activity and more time on communication with constituents (Lucas, Sheffer and Loewen, 2023). These theories thus appear to have important consequences for how politicians choose to do their jobs.[1]

These consequences are likely to extend beyond how politicians reason about policy or how they choose to spend their time. In some circumstances, politicians' theories may generate a form of self-fulfilling prophecy, inadvertently creating the electorate that politicians' theoretical beliefs lead them to expect. For example, politicians who believe that voters are short-sighted and retrospective may endorse excessive pre-election spending, exacerbating the patterns documented in research on electoral business cycles (Alesina and Roubini, 1992) and signalling to citizens that elections are indeed "about" short-term policy or material rewards. Similarly, politicians who believe that voters are oriented to identity-based appeals rather than policy-based appeals are likely to spend more time communicating with constituents about relevant in-groups and out-groups than about policy, heightening the salience of group identities in election campaigns and political debates. And if politicians see voters as personalistic and leader-focused, rather than focused on parties' policy promises, they may find it more difficult to stand up to their own party leaders, even when those leaders take norm-violating action in power, believing that their own political survival is strongly tied to their leader's success (Matovski, 2021). More broadly, then, politicians' theoretical beliefs about what voters want – demand for personalism, demand for identity-based appeals, demand for

[1] These findings in the specific domain of political elites mirror broader findings about the role of implicit theories for behavior, including work in political science on implicit theories in international relations (Kertzer and McGraw, 2012) and the role of implicit theories for policy attitudes (Rad and Ginges, 2018). In one especially well-developed area of research, for example, differences between individuals who hold "entity" versus "incremental" theories of human intelligence (implicit theories about the extent to which people can enhance their personal attributes or develop new traits) predict many important outcomes in child development, career success, and inter-group attitudes. On these "growth mindset" findings specifically, see Dweck (2012), along with the nationally representative double-blind RCT in Yeager et al. (2019) and the meta-analyses in Burnette et al. (2023) and Tipton et al. (2023). See Gelman and Legare (2011) for a general review.

short-term policy solutions, and so on – are likely not only to shape politicians' own behavior, but may also serve over the longer term to reorient voters' behavior as well. For all of these reasons, understanding politicians' theories of elections and voting behavior should be an important and even central component of our general understanding of political elites.

We can gain an especially clear understanding of politicians' theories by comparing politicians' views to those of ordinary citizens. As Joshua Kertzer (2022) has argued, comparing political elites to ordinary citizens is valuable for normative, theoretical, and methodological reasons. At a *normative* level, most theories of political representation assume that politicians resemble constituents in ways that allow politicians to respond to constituents' needs and allow constituents to meaningfully assess their representatives' performance (Mansbridge, 2003; Pitkin, 1967). Together with decades of research on policy representation (Miller and Stokes, 1963; Soroka and Wlezien, 2009), political scientists have also explored other ways in which politicians might be expected to resemble their constituents, including personality traits (Dynes, Hassell and Miles, 2022; Hanania, 2017), reasoning and problem-solving (Sheffer et al., 2018), and values and norms such as altruism and cooperation (Enemark et al., 2016; LeVeck et al., 2014). Identifying the respects in which politicians do or do not resemble their constituents – and then assessing the normative significance of this alignment or misalignment – is a central feature of contemporary theories of political representation (Mansbridge, 1999; Urbinati and Warren, 2008).

Comparing political elites to ordinary citizens is also crucial for *theories* of elite political behavior and elite-mass divides. This is important not only for ongoing debates about what it is that distinguishes politicians' attitudes, characteristics, or decision-making processes from those of ordinary citizens (Kertzer and Renshon, 2022), but also for more specific theories of political communication and democratic satisfaction. When citizens say things like, "politicians think we're stupid" or "politicians think we don't pay attention to what they do," researchers often interpret these statements as indicators of political disengagement or cynicism. But what if politicians *are* more likely than citizens to think that voters are unin-

formed and ignorant? What if they *are* more likely than citizens to think that voters pay no attention to politicians' actions? These differences between politicians and citizens, if they exist, would reveal an important and overlooked individual-level predictor of miscommunication, misunderstanding, and even dissatisfaction among citizens with their representatives – which would require very different solutions than other sources of dissatisfaction, such as ideological misalignment or poor performance in office.

Alignment or misalignment between elites and citizens is also theoretically important because we have good reason to suspect that elites *do* differ from ordinary citizens in their theories of elections and voting behavior. Political elites differ from other citizens not only in their demographic characteristics, such as age, wealth, and education (Carnes and Lupu, 2023), but also in their personality traits (Hanania, 2017), partisanship and political engagement (Enders, 2021), and in the way they approach relevant decision-making processes, such as bargaining (Sheffer et al., 2023). Relatedly, politicians have distinctive opportunities to interact not only with voters but also with other politicians, including more experienced elites and campaign strategists who may socialize them into particular theories of "how things really work" in politics (Fenno, 1977; Esaiasson and Holmberg, 2017).[2] These compositional, social, and cultural factors give us good reason to expect politicians' beliefs about elections and voting to differ from those of ordinary citizens.

Finally, elite-mass comparisons have *methodological* implications. Studies of political elites – especially active, elected politicians in major national or regional executives and legislatures – are costly and time-consuming. In some domains, differences between political elites and the mass public (or between "top" politicians and more accessible elites, such as municipal politicians), are relatively small (Sheffer et al., 2018; Teele, Kalla and Rosenbluth, 2018). Understanding these differences allows researchers to pursue less costly research strategies, where appropriate, while still illuminating important features of elite political

[2]In more general terms, this phenomenon has been known to psychologists for decades. For instance, Nisbett and Wilson (1977) argue that individuals explain their own and others' behavior by developing causal accounts that align with their experience and/or plausible causal narratives within their culture or subculture. We are grateful to an anonymous reviewer for reminding us of this important connection.

behavior (Kertzer and Renshon, 2022).

Importantly, these comparisons are valuable even if citizens have reflected much less deeply than politicians on elections or voting behavior. Because citizens' theories are likely, on average, to be drawn from culturally accessible and less well-structured narratives about politics, they provide us with a baseline against which to judge the distinctiveness of politicians' theories. As long as citizens understand the questions being asked of them – and we provide evidence that the overwhelming majority of citizens *do* offer coherent responses to our questions – then comparing politicians' theories to those of citizens offers valuable insight into how politicians see politics. This is true even if, as we expect, citizens' theories are likely to be less stable and less predictive of behavior than those of political elites.

In sum, past research in political science, together with a larger interdisciplinary research tradition, offers good reason to expect that politicians' theories of elections and voting behavior have important consequences for politicians' behavior. These theories, however, have thus far gone largely unnoticed in political science research.[3] Our purpose in this paper is thus to provide a comprehensive and comparative overview of politicians' theories of elections and voting behavior.

3 Measuring Theories of Elections and Voting

To measure politicians' theories of elections and voting behavior, we developed eight novel survey questions, each of which captures an enduring theoretical debate in political science. To select these debates, we focused on four criteria. First, we chose to focus on *elections and voting behavior* because we expect politicians to have developed theoretical beliefs in this area; this contrasts with other theoretical debates in political science (such as theories of the policy process or executive-bureaucratic relations) in which politicians may have had less opportunity to develop theories. Second, we focus on *enduring* theoretical debates in the

[3] This absence is especially notable because politicians' theories received early attention in the work of several foundational post-war political scientists. See, for instance, Dahl (1961) and Kingdon (1967).

elections and voting behavior field – debates that appear regularly in handbooks, textbooks, and synthetic reviews. Third, because our research is comparative and exploratory, we sought to cover a wide *variety* of theoretical debates, rather than focusing on repeated measures of a smaller number of debates. Finally, we focus on debates about *individual* voting behavior, rather than theories of system-level responsiveness or representation, such as theories of thermostatic responsiveness or issue evolution (Soroka and Wlezien, 2009). While these macro debates are important, and political elites may well have theoretical beliefs about them, we begin by focusing our attention on a group about whom politicians are likely to have invested a great deal of thought: individual voters.

Based on these criteria, we selected eight debates to include in our interviews with politicians and citizens. The first of these is *policy* versus *identity* voting. As we noted earlier, political scientists in the spatial voting tradition argue that voters rely on their policy preferences to select their preferred candidates (Downs, 1957; Jessee, 2012; Schonfeld and Winter-Levy, 2021). More generally, many theories of policy responsiveness assume that citizens' policy preferences influence government policy in part through an electoral selection mechanism (Ansolabehere, Snyder and Stewart, 2001). However, an equally longstanding tradition rejects the notion that citizens even *have* coherent bundles of policy preferences with which to make their voting decisions (Converse, 2006; Kinder and Kalmoe, 2017), arguing that these choices are instead driven by factors such as citizens' longstanding group identities – especially partisanship (Achen and Bartels, 2016; Mason, 2018).[4] This remains an area of spirited debate.

The second theoretical debate we selected concerns voters' *short-term* versus *long-term* orientations. Inter-temporal choices are at the heart of policy-making, and it is commonly argued that policies tend to be biased towards the short-term, in part because representatives have electoral incentives to cater to an impatient public (Jacobs, 2011; Ashworth,

[4]Some political scientists see partisanship as a "policy reputation" or a "running tally" of a party's policy commitments and performance(Fiorina, 1981). We are referring here to the more specific social identity theory of partisanship.

2012). Research in psychology and economics emphasizes people's tendency to be myopic in their preferences; citizens tend to be short-sighted and focused on the near rather than far future (Streich and Levy, 2007; Urminsky and Zauberman, 2015). However, empirical studies that corroborate this idea of myopic citizens in the context of elections and voting is more scattered in its conclusions. Healy and Malhotra (2009) do find that voters, in the context of policies dealing with natural disasters, support immediate relief aid rather than future disaster prevention, which suggests that voters tend to be averse to short-run costs that are connected to long-term responsible policy-making. Jacobs and Matthews (2012, 2017), in contrast, show that voters are myopic in favoring secure short-term policy benefits, but emphasize that this does not imply that voters are fundamentally short-sighted. Voters are not impatient, they argue, but focus more on the short-term simply because they are uncertain about the future. The character of voters' short-term or long-term orientations thus remains an active scholarly debate.

Third, we ask if our respondents see voters as *knowledgeable* or *ignorant*. Empirical scholarship has long debated the degree of citizens' policy-specific knowledge (Gilens, 2001), general political knowledge (Delli Karpini and Keeter, 1996), or political sophistication (Luskin, 1987). While there is a broad consensus that political knowledge is associated with positive outcomes such as civic participation, correct voting (Lau and Redlawsk, 1997; Lupia, 2006) and political activism (Verba, Schlozman and Brady, 1995), the *level* of knowledge that citizens bring to their voting choices remains an area of debate (Achen and Bartels, 2016; Fowler, 2020).

Fourth, we measure theories of *single-issue* versus *multiple-issue* voting. Since Converse (2006) first proposed the idea of "issue publics" – voters who pay close attention to particular issues and who vote on the basis of parties' stances on those issues – political scientists have debated whether such voters actually exist. As we already noted, many political scientists have suggested that voters' policy beliefs are simply too weak and unstable to genuinely shape their choices (Achen and Bartels, 2016; Cohen, 2003; Kinder and Kalmoe, 2017), and even

those who *do* believe policy attitudes are important for voting tend to assume that *bundles* of issue positions, rather than single issues, are what matters (Fowler et al., 2023; Jessee, 2012). Even so, a new analysis by Ryan and Ehlinger (2023) used a novel survey question and "bespoke" conjoint experiments to show that a substantial fraction of the American public *does* appear to belong to issue publics. This new approach is likely to provoke considerable new research – and debate – about the presence or absence of genuine single-issue voters.

Fifth, we explore the debate between those who see voters as motivated by *political leaders* versus those who see voters as focused on *parties and their substantive ideas*. There is a well-documented long-term process of personalization in democratic politics, wherein leaders' personal authority becomes increasingly significant amidst weakening political parties (Rahat and Kenig, 2018). In contrast, others follow classic research in spatial voting theory (Lau and Redlawsk, 1997) by providing evidence for voters' attention and responsiveness to changes in parties' policy positions and ideology (Klüver and Spoon, 2016; Seeberg, Slothuus and Stubager, 2017; Serra, 2010). The relative importance of leadership competence (vs. policy and ideas) in vote choice is a longstanding focus in electoral research (Petrocik, 1996; Lanz, 2020), including work on both presidential candidates (Miller, Wattenberg and Malanchuk, 1986) and party leaders (Garzia, 2011; Valgarðsson et al., 2021). These studies have recently been extended to voter support for political leaders who violate democratic principles (Carey et al., 2022; Frederiksen, 2022) and the impact of competence on voting preferences (Green and Jennings, 2017). Although some work suggests that the importance of leaders' competence for vote choice has increased in recent years, its influence relative to parties' substantive ideas remains a subject of active debate.

Our sixth debate is *retrospective* versus *prospective* voting. Classical theories of democratic representation view voters as future-oriented individuals who are driven largely by policy expectations (Downs, 1957). Under this "promissory" model (Mansbridge, 2003), voters make choices based on the match between their own policy preferences and the policies that candidates and parties offer (Naurin and Thomson, 2020). In contrast, voting based

on already implemented policies is considered retrospective, and a distinguished theoretical literature argues that voters' decision-making is based largely on evaluations of representatives' past behavior (Ferejohn, 1986; Fiorina, 1981). While a great deal of evidence indicates that citizens consider information on past performance when making their electoral choices (Healy and Malhotra, 2013), prospective theory continues to receive considerable attention (Fowler et al., 2023; Jessee, 2012).[5]

Seventh, we measure *egocentric* versus *sociotropic* theory. An important question about citizens' assessment of their incumbents' performance is whether voters are egocentric in their evaluations – so-called "pocketbook" voting – or sociotropic, assessing the overall state of the national economy or other broad features (Healy, Persson and Snowberg, 2017; Lewis-Beck and Lockerbie, 1989; Lockerbie, 2006). Early rational choice models (Downs, 1957) implied that voters would be egocentric, focusing on personal well-being, but considerable research has found that many voters instead respond to the state of the national economy and the incumbent government's performance on the national economy (Kinder and Kiewiet, 1979, 1981; Clarke et al., 2004). Others have reinforced this view with a more general argument that voters look beyond their own situation when casting their vote, acting with "sociotropic" rather than "egocentric" retrospection (MacKuen, 1983; Fiorina, 1978). Still, recent research has questioned the sociotropic consensus (De Benedictis-Kessner and Hankinson, 2019; Healy, Persson and Snowberg, 2017), and it is also possible that retrospective voters evaluate the state of the nation *and* their own well-being – a distinction that is methodologically challenging to disentangle (Feldman, 1982).

Finally, we explore the theoretical debate about citizens' competence to assess their elected representatives' performance. In classical retrospective voting theory, citizens hold their elected representatives accountable for their actions by considering indicators of their well-being (whether egocentric or sociotropic) during the full course of a government's time

[5] Many retrospective theorists assumes that voters rely on retrospective judgments to make prospective assessments – that is, they use past performance to predict future performance (Ashworth, 2012). For the purposes of measuring politicians' theories, however, we focus on the simpler (and still interesting) distinction between promissory prospection and accountability-oriented retrospection.

in office (Key, 1966; Fiorina, 1981). This "clear-eyed" retrospection – holding governments accountable for what they *can* control, but ignoring changes over which governments have no control – incentivizes politicians to anticipate their constituents' preferences and communicate the reasons for their actions to citizens (Mansbridge, 2003). However, retrospective voting can secure this representational connection only if voters' assessments are genuinely linked to politicians' performance, and a prominent tradition of political science research has argued that voters' assessments are in fact based on considerations that have nothing to do with politicians' actions, such as the outcome of college football games (Healy and Malhotra, 2009), local shark attacks (Achen and Bartels, 2016), and extremely short-term economic fluctuations (Achen and Bartels, 2016). These findings have prompted new studies that seek to question the "irrelevant events" results or argue that such events in fact provide voters with valuable information (Ashworth, 2012; Ashworth, Bueno De Mesquita and Friedenberg, 2018; Fowler and Hall, 2018).

Having selected these theoretical debates, we developed questions that describe each debate in accessible language. We provide the full wording for each of our questions in Table 1. In each question, we identify each side of the debate and ask respondents to position themselves within the debate on a 0-10 scale, with each pole appropriately labelled. Further, we field-tested all of these questions in surveys of local politicians in Canada, the United States, and Belgium. In each case, question response patterns and open-ended follow-up questions confirmed that politicians understood the questions, felt comfortable placing themselves in the theoretical debates, and even, in many cases, enjoyed the opportunity to express their views.[6] These questions are designed to be accessible to politicians and citizens alike; past elite-citizen comparisons suggest that politicians and citizens tend to respond to survey questions and prompts in similar ways, even on quite technical and specialized tasks

[6]In one pilot study, we included "don't know" options for all questions and found that only a very small proportion (less than 1% for most questions) selected the option, indicating good question comprehension. Two other pilot studies included an opportunity for open-ended feedback on the questions; responses did not reveal any comprehension problems. Our final pilot study with Belgian local politicians revealed no issues with extending the questions to a non-majoritarian electoral setting.

(Kertzer, 2022).

Two additional features of these questions are worth emphasising. First, the order of the questions in the table carries no implied ranking – we consider all eight questions equally important, and the order of presentation of the items was randomized for both politicians and citizens. Second, our setup – with distinct questions for each theoretical debate – allows for but does not require that respondents' positions on the theoretical debates are strongly related to one another. Among political scientists, we know that some combinations of theoretical positions are more common, and even perhaps more logically coherent, than others. However, research on implicit theories outside political science has demonstrated that lay theories are much more flexible than those developed by scientific professionals (Rad and Ginges, 2018; Gelman and Legare, 2011), and our pilot studies indicated that respondents might combine their theoretical positions in a wide variety of ways. Our questions allow for many possible theoretical positions not only in terms of the respondent's answer to each theoretical item but also in terms of their positions across the eight theoretical debates.

4 Data: Theories of Elections and Voting in Eleven Countries

We examine politicians' and citizens' theories of elections and voting behavior in eleven countries: Australia, Belgium (Flanders), Canada, Czechia, Denmark, Germany, Israel, the Netherlands, Portugal, Sweden, and Switzerland. In each country, our questions were part of surveys fielded in the framework of the POLPOP project.[7] While these countries are similar

[7] POLPOP is an international collaboration examining elected politicians' opinions, perceptions and evaluations in thirteen countries. The project is led by Stefaan Walgrave (University of Antwerp) and supported by an ERC Advanced Grant (POLEVPOP, ID:101018105). In Australia, the project is led by Patrick Dumont (Australian National University), in Belgium (Flanders) by Stefaan Walgrave (University of Antwerp), in Francophone Belgium by Jean-Benoit Pilet and Nathalie Brack (Université Libre de Bruxelles), in Canada by Peter Loewen (University of Toronto) and Jack Lucas (University of Calgary), in the Czech Republic by Ondrej Cisar (Charles University Prague), in Denmark by Anne Rasmussen (University of Copenhagen), in Germany by Christian Breunig (University of Konstanz) and Stefanie Bailer (University of Basel), in Israel by Lior Sheffer (Tel Aviv University) and Eran Amsalem (Hebrew University Jerusalem), in Luxembourg by Javier Olivera (Luxembourg Institute of Socio-Economic Research), in the Netherlands by Rens Vliegenthart (Wageningen University), and Marc Van de Wardt (Free University of Amsterdam), in Norway by Yvette Peters (University of Bergen), in Portugal by Miguel Pereira (University of Southern California) and Jorge Fernandes (University of Lisbon), in Sweden by Mikael Persson (University of Gothenburg), and in Switzer-

Table 1: Overview of Question Wording and Short Labels

Theoretical Debate	Short Name	Question Wording
Policy-based vs. identity-based voting	Policy v. Identity	Some say that voters make their decisions based on their policy preferences. Others say that voters' choices have much more to do with their deeply held partisan or other group identities. Where would you position yourself in this debate? (0 = Policy; 10 = Identity)
Voters' short-term vs. long-term orientations	Short-term v. Long-term	Some say that voters are impatient and think about the short term when they vote. Others say that voters focus on the long term. Where would you position yourself in this debate? (0 = Short term; 10 = Long term)
Voters' knowledge vs. ignorance	Knowledge v. Ignorance	Some say that when citizens vote they are by and large knowledgeable about political issues, while others say they generally know very little. Where would you position yourself in this debate? (0 = Knowledge; 10 = Ignorant)
Single-issue vs. multiple-issue voting	Single-Issue v. Many-Issue	Some say that voters make voting decisions based on one or two policy issues they care strongly about. Others say voters decide based on a wide range of policy issues. Where would you position yourself in this debate? (0 = Single issue; 10 = Many issue)
Voters' focus on leadership qualities vs. policy commitments	Ideas v. Leaders	Some say that voters care more about the ideas parties stand for than about the party leader's character and competence. Others say that voters care about the leader's qualities more than the party's platform. Where would you position yourself in this debate? (0 = Ideas, 10=Leader)
Prospective vs. Retrospective Voting	Future v. Past	Some say that voters make decisions based on candidates' policy commitments and promises for the next term. Others say that voters base their decisions on rewarding or punishing their elected representatives for how well they have performed in the previous term. Where would you position yourself in this debate? (0 = Future, 10 = Past)
Sociotropic vs. egocentric / pocketbook voting	Sociotropic v. Egocentric	Some say that voters judge governments on whether they've improved everyone's lives. Others say that voters judge governments on whether they've improved their own personal lives. Where would you position yourself in this debate? (0 = Everyone; 10 = Personal)
"Blind" vs. "clear-eyed" retrospective voting	Unfair v. Fair	Some say that voters often blame or reward politicians for events that are totally outside the politician's control. Others say that voters are good at knowing which events politicians are and are not responsible for. Where would you position yourself in this debate? (0 = Unfair, 10 = fair)

to one another in being established Western democracies, they are quite diverse in terms of electoral systems, including majoritarian as well as proportional systems, large and small district sizes, strong and weak party systems, hybrid systems, and so on. These systemic differences necessarily influence why and how voters in those systems make their decisions. At a more individual level, these eleven countries are also diverse in terms of politicians' lived experiences: the role of political parties in politicians' careers widely varies, as do the lengths of their careers, the amount of turnover expected at each election, the size and characteristics of the constituencies they represent, the amount of staff support they receive, the media and how they cover politics and politicians, and so on. In the present paper, we focus primarily on describing and comparing politicians' theories, with the institutional and other country-level variation allowing us to check whether these differences hold across contexts.

To study politicians' theories of elections and voting, we draw on extensive face-to-face surveys collected from 982 elected national and regional politicians between March 2022 and March 2023 (see Table 2) - an unprecedented dataset of elected political elites (Kertzer and Renshon, 2022). Moreover, our sample of participating politicians is broadly representative of the full population in terms of gender, seniority, and ideological position (for more information on the sample, see SM1). While response rates vary substantially across countries, the total number of completed surveys is exceptionally high for research with active members of parliament. In most countries, all national members of parliament were the target population, and in federal countries like Belgium and Canada, provincial or state parliamentarians were also asked to participate. In Israel, Sweden, and Australia, an election was called during the fieldwork period, and our target population thus included politicians who were not re-elected as well as re-elected and newly elected members of parliament. Politicians were

land by Fréderic Varone (University of Geneva) and Pirmin Bundi (University of Lausanne). Three country teams (in Francophone Belgium, Norway, and Luxembourg) did not include all eight questions tapping into voting theories in their survey. Note, moreover, that each country team obtained approval from their respective Research Ethics Boards to conduct the politician surveys. Please see the Supplementary Material for detail on ethics approval for each country.

asked to participate by local researchers, first via email and then, if contact details were publicly available, also via telephone.

Table 2: Data Collection: Fieldwork Periods and Response Rates

	Politician Survey		Public Opinion Survey	
	Fieldwork	N (Resp. %)	Fieldwork	N
Australia	11-22 - 03-23	58 (21%)	02-22 - 02-22	955
Belgium (Flanders)	02-22 - 08-22	215 (85%)	02-22 - 02-22	1092
Canada	10-22 - 02-23	87 (12%)	02-22 - 02-22	1107
Czechia	04-22 - 10-22	64 (32%)	02-22 - 02-22	1098
Denmark	02-22 - 08-22	48 (27%)	02-22 - 02-22	1123
Germany	05-22 - 03-23	178 (27%)	02-22 - 02-22	1070
Israel	05-22 - 01-23	55 (32%)	02-22 - 05-22	1355
Netherlands	05-22 - 09-22	38 (25%)	02-22 - 02-22	969
Portugal	07-22 - 02-23	70 (30%)	02-22 - 02-22	1093
Sweden	10-22 - 02-23	67(19%)	02-22 - 02-22	1108
Switzerland	05-22 - 12-22	103 (42%)	02-22 - 02-22	1112
Total		982		12,082

Concretely, a thirty-minute Qualtrics-programmed survey was put to politicians by local researchers in each of the participating countries. Politicians always completed the survey in the presence of a researcher – who was either physically present or present in an online meeting (see SM1 for more information). This way, we ensured that politicians themselves and not their staffers completed the questionnaire, and we could respond to clarification questions as the politicians progressed through the survey. Importantly, however, while the interviews were conducted in face-to-face settings, politicians completed the survey portion of the interview, which we use here, using identical questions and the identical survey platform (Qualtrics) as citizens, and researchers could not see politicians' responses as they completed

the survey.[8]

Next, we fielded an online population survey in March 2022 in each country to compare politicians' theories of voting behavior and elections with those of citizens. In collaboration with Dynata, around 2000 citizens of voting age were targeted in each country from existing online panels, with recruitment quotas for age and gender (crossed), and education level.[9] To adjust for remaining imbalances, we computed post-estimation raking weights using age, gender, education, and party choice in the most recent national election.[10] Due to the modular structure of the public opinion survey, half of the respondents in the public opinion survey were randomly assigned to complete our questions on theories of elections and voting behavior; hence, we have responses from about 1,000 citizens in each country (see Table 2).[11] In the questionnaire, citizens were shown the same eight statements on elections and voting behavior and they too were asked to indicate their position on each eleven-point scale. The phrasing for these questions was identical to the politician survey, and here, too, the item order was randomized.

5 Politicians' Theoretical Beliefs

We begin with figure 1, which summarizes the distribution of responses to our eight theory questions among politicians (in purple) along with citizens (in green), with pooled responses in Panel A and country-specific results in Panel B. Several important results are immediately visible. First, and most obviously, responses on all of the theory questions *vary* – for all eight questions, responses range widely across the available response options. The theoretical items we have measured are indeed *debates*, with a substantial proportion of respondents on each

[8] This reduces concern that differences between politicians and citizens might originate in the difference between monitored and unmonitored survey completion. In the supplementary material (2.2), we use pilot data from an earlier unmonitored politician survey to further alleviate this concern.

[9] For more information on Dynata's panels and fieldwork approach, see https://www.dynata.com

[10] We cap weights at 5; in uncapped weights, fewer than 1.5% of respondents receive weights above 5.

[11] The other half were asked about how they *themselves* vote, providing strong experimental evidence (available in SM 3.1) that citizens were able to at least partially distance themselves from introspection, reflecting instead on how voters in general behave.

side of every question.

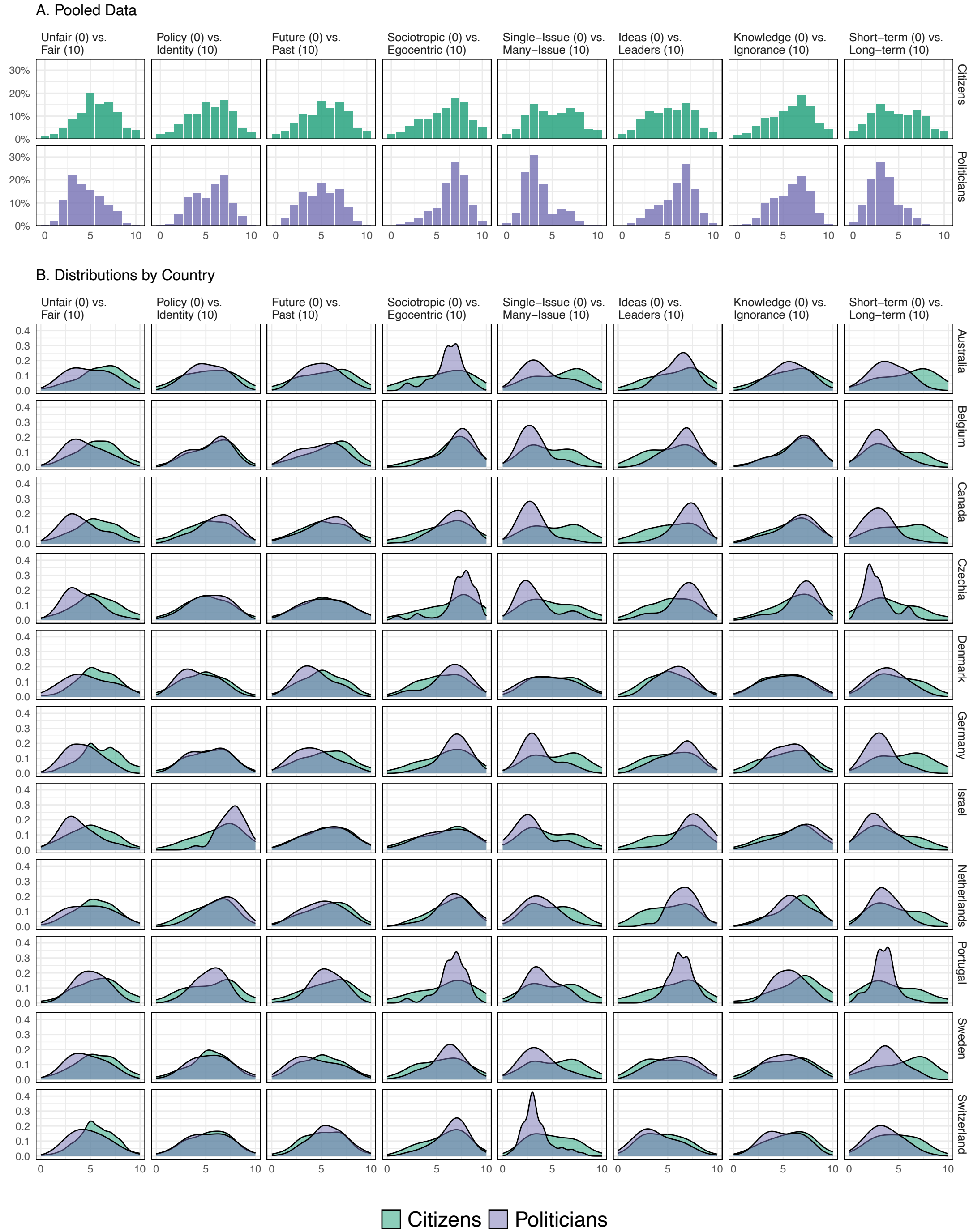

Figure 1: **Theory Questions: Distribution of Politician and Citizen Responses**. Summary of the distribution of citizen responses (in green) and politician responses (in purple) to eight questions about elections and voting behavior. Pooled responses in Panel A and country-specific responses in Panel B. Columns are distinct questions (see Table 1 for full wording), and rows in Panel B are countries. Response options range from 0-10.

A second important finding in figure 1 is the similarity of the citizen and politician distributions across countries. In general, both the politician and citizen distributions look quite similar within each question as we scan from top to bottom in each column. This visual pattern is strongly confirmed in statistical tests; in the supplementary material, we show that in just two cases (of twenty-two) is more than 10% of the variation in theoretical positions explained by cross-country rather than within-country variance.[12] Despite considerable institutional and political-cultural variation across our case countries, the distribution of theoretical beliefs among both politicians and citizens is strikingly similar.

This cross-national similarity contrasts starkly with the third and most important finding in figure 1: clear differences on most questions between the politician and citizen distributions. In the first column (unfair vs. fair blame), for example, the politicians' distribution is shifted leftward and the citizens' distribution is shifted rightward in all countries, suggesting that politicians tend to be more likely than citizens to see voters as "blind" rather than "clear-eyed" when making retrospective judgments about government performance. Similarly, in the far-right column (short-term vs. long-term focus), politicians once again skew left and citizens skew right. In this case, it appears that politicians are more likely than citizens to think voters focus on short-term rather than long-term considerations.

To formalize this comparison, figure 2 summarizes estimates of expected differences between politicians and citizens on each question. In the top panel, each coefficient is drawn from a separate OLS model, regressing survey responses for each item on a politician/citizen indicator variable along with country fixed effects. In the figure's remaining panels, we provide country-specific coefficients. Full tables for these models are available in the supplementary material.

The coefficients in figure 2 confirm that there are substantively large differences between citizens' and politicians' theories of elections and voting – differences that are generally

[12] The two exceptions are policy ideas vs. leaders among politicians, for which 25% of the variance is explained by cross-country variation, and policy vs. identity, for which 14% of the variance is explained by cross-country variation, again among politicians. In a pooled model containing both politicians and citizens, cross-country variation explains a maximum of 6% of variance.

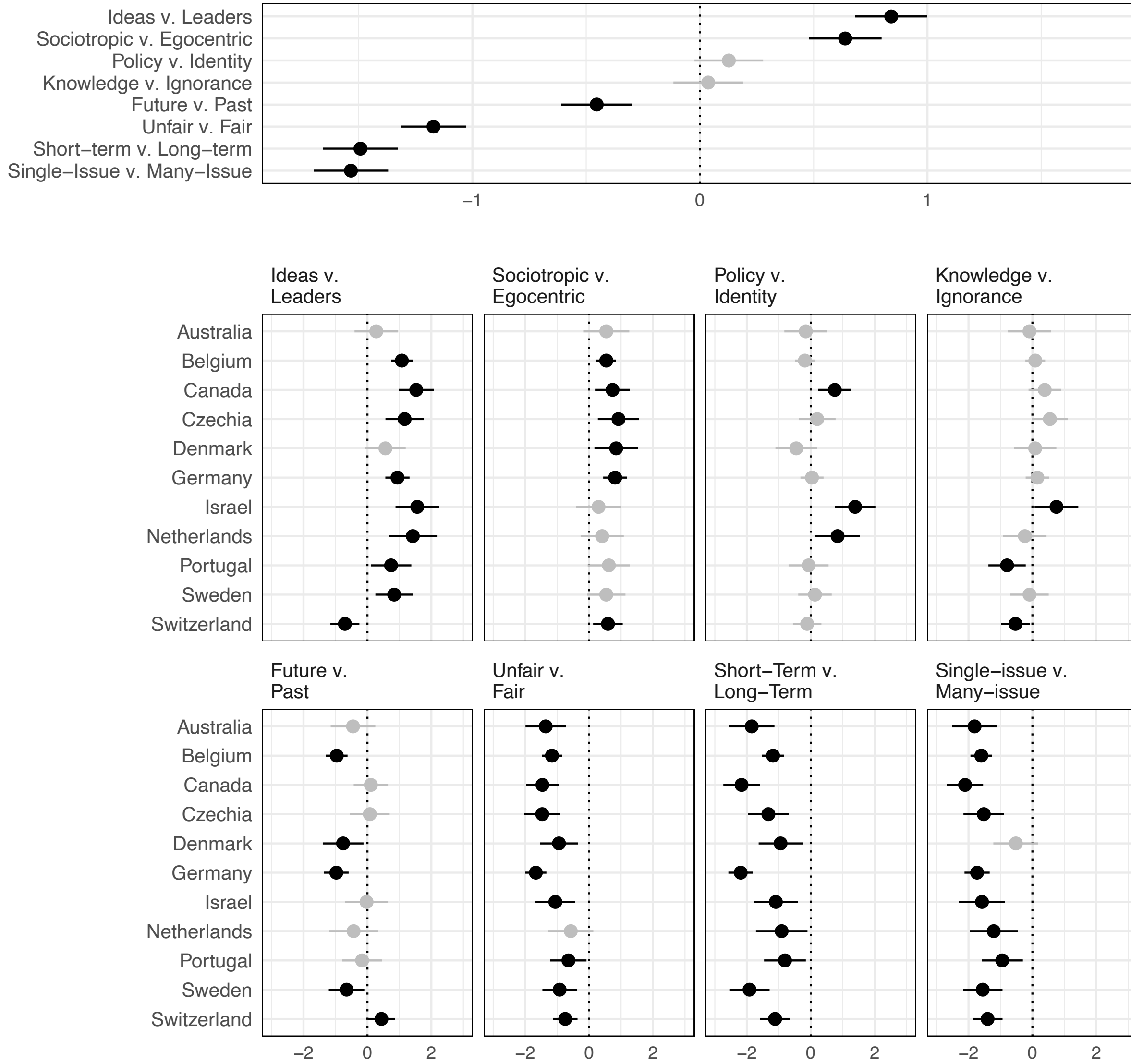

Figure 2: **Differences between Politicians and Citizens**. Summary of average difference between politicians and citizens for each item: black coefficients are statistically significant ($p<0.05$), gray coefficients are not. Top panel provides overall differences from models that include country fixed effects. Bottom panels provide country-specific differences, by question. Full model tables available in supplementary material.

consistent across countries. In the top panel, the first two coefficients reveal that politicians are more likely than citizens to think of voters as leader-focused rather than ideas-focused and to think of voters as egocentric rather than sociotropic. In both cases, the differences are substantively important, approaching an expected within-country difference of one point

on a 0-10 scale. The smaller panels illustrate that these findings are consistent in direction in ten of eleven countries for leadership vs. ideas and in all eleven countries for sociotropic vs. egocentric voting.[13]

The next two coefficients in the top panel are not statistically significant. Politicians are no more likely than citizens to think of voters as identity-oriented rather than policy-oriented, nor are politicians more likely than citizens to think of voters as ignorant rather than knowledgeable. In both cases, the country-by-country breakdowns in the bottom panels indicate that these pooled null findings are not merely the result of country-level variation that is "canceled out" in a pooled model: the policy vs. identity relationship is null in eight of eleven countries and the knowledge vs. ignorance relationship is null in seven of eleven countries. These null findings are theoretically interesting because they suggest that politicians do not simply take what we might think of as more "cynical" theoretical positions than citizens across the board. The null findings also help to confirm that citizens are not more inclined than politicians to merely provide socially desirable responses: if the citizen responses were more contaminated by social desirability, we would expect this to be especially visible in the "knowledge vs. ignorance" question.[14] To be sure, plenty of politicians and citizens believe that voters are not especially knowledgeable in their voting decisions, but this position is no stronger, on average, among politicians than citizens. It is equally striking, in an environment of strong elite polarization and debates about "identity politics" in many democracies, that politicians are no more likely than citizens to think of voters as motivated primarily by group identities rather than policy commitments.

[13] Two peculiarities of the Swiss political system might explain its distinctiveness in the first theory question: first, a weak party system at the national level (with strong local/cantonal chapters) and low-profile party leaders (with the notable exception of the populist Swiss People Party); second, frequent popular votes (due to direct democracy) which make "votes (on specific policy issues)" probably more important than "elections". This also helps to explain the Swiss findings on the knowledge vs ignorance dimension.

[14] In general, we see little reason for citizens to be more susceptible than politicians to social desirability bias in these responses: while citizens may be tempted to select socially desirable responses because the questions are about their fellow citizens, politicians may be equally tempted to select socially desirable responses because the questions are about the individuals *who elected them to office*. In any case, the distributions in figure 1 confirm that both politicians and citizens are quite willing to express theoretical beliefs that reflect poorly on voters. See also SM 3.1.

The remaining coefficients in the top panel of figure 2 are the questions for which politicians tend to select lower values than citizens. For prospective and retrospective voting, the difference is relatively modest (about 0.5 points on the ten-point scale), with politicians having a slightly higher overall tendency to hold prospective theories. Notice, however, that this difference is statistically significant in just four countries. The three remaining questions are much stronger and more consistent: politicians are substantially more likely than citizens to think that voters unfairly blame elected representatives for events that are outside the government's control; more likely to think of voters as short-term rather than long-term in their focus; and more likely to think voters focus on single issues rather than many issues when voting. In all three cases, these differences are substantively large – well over one point on the 0-10 scale – and, as the country-specific breakdowns reveal, remarkably consistent in direction and significance across countries.

Overall, then, we find that politicians differ quite profoundly from citizens in their theoretical beliefs about elections and voting behavior. These politician-citizen differences are much more consistent in direction, statistical significance, and magnitude than the cross-national differences. While theoretical beliefs vary widely among both politicians and citizens – in all eight cases, the theoretical debates we have identified are indeed *debates*, with many citizens and politicians on both sides of each debate – we see remarkably similar general tendencies across countries, despite substantial differences in electoral institutions, party systems, and political cultures.

6 From Beliefs to Theories: Politicians' Theoretical Types

At a glance, theoretical tendencies in figures 1 and 2 appear to hang together in coherent bundles: politicians tend to be more likely than citizens to think of voters as *leader-oriented*, *egocentric*, and oriented toward *short-term* and *single-issue* considerations. Borrowing from Achen and Bartels, we might say that politicians appear to incline more strongly toward "democratic realism," while citizens incline toward what we might call a "democratic optimist"

theory of elections and voting behavior. In other words, the differences between politicians and citizens may be differences not only in beliefs about specific theoretical debates, but may also cohere into more differences in deeper and more general theories of voting behavior.

To explore this possibility, we used a latent class analysis (LCA) to organize politicians and citizens into more general latent classes on the basis of their responses to each of the eight theory questions (Linzer and Lewis, 2011). Our goal in this analysis was to inductively identify the latent "theories" of elections and voting beneath responses to the individual theory items. We thus began by simplifying each question into three categories: a position on one side of each theoretical debate (e.g. sociotropic voting), a position in the exact centre of the 0-10 response scale, and a position on the other side of the theoretical debate (e.g. egocentric voting). We then used these simplified theoretical positions in a latent class analysis, fitting solutions ranging from two to twenty classes and recording class membership values and fit statistics for each solution. We provide additional detail on our class selection criteria and fit statistics, as well as robustness tests using alternative coding approaches and clustering solutions, in the supplementary material (6.1).

Our analysis indicated that a four-class solution struck an attractive balance between substantive interpretability and statistical fit. We summarize this four-class solution in figure 3. In the top panels, we report the proportion of citizens (left) and politicians (right) who belong to each of the four classes. In the remaining panels, we provide the full distribution of responses to each question, organized by class membership. These distributions allow us to interpret the results of the latent class analysis and help to justify the labels we have applied to each of the four classes.

To interpret the distributions in the bottom of figure 3, notice the general tendency in responses across the first row: based on the visible peaks in the distributions, these respondents tend to think of voters as fair in their retrospective assessments, policy-oriented, prospective, sociotropic, multiple-issue-focused, interested in policy rather than political leaders, knowledgeable, and oriented to the long-term. These respondents are *democratic*

Figure 3: **Politician and Citizen Membership in Four Latent Theory Types**. Summary of Latent Class Analysis describing politicians' and citizens' membership in four latent theory types. Top panel summarizes percentage of citizens (left) and politicians (right) belonging to each class. To aid in interpretation, bottom panels summarize the distribution of responses to each theory question among members of each latent class.

optimists, expressing a confident view of voters as policy-oriented, knowledgeable, prospective decision-makers. More than a third of our citizen respondents belong to this category, while far fewer politicians – just 16% – belong to this latent class.

The second latent class contrasts starkly with the first: individuals in this category tend to see voters as unfair in their blame, identity-oriented, retrospective, egocentric, single-issue-focused, leader-driven, ignorant, and short-termist. These views largely correspond to

what Achen and Bartel's describe as "democratic realism," where voters are seen as blindly retrospective, group-oriented, and generally rather ignorant about politics. Politicians are much more likely to be democratic realists than democratic optimists - nearly three quarters of the politicians in our sample (73%) are democratic realists. Among non-elites, in contrast, we see an even distribution across the democratic optimist and democratic realist groups – about a third belong to each class.

The two remaining classes in the LCA, while interesting, are of less substantive importance. The third class captures respondents who tend to choose the middle value or very moderate values across the theory questions. While these respondents do have views on some questions, they are clearly uncertain in their theoretical beliefs, and we therefore describe them as the "undecided" theorists. This group is small, but by no means insignificant, among both citizens (17%) and politicians (10%).

Finally, a small but discernible fraction of citizens appear to choose higher values (between 6-10) across all eight issue items (11% of citizens, extremely few politicians). These respondents may be especially susceptible to acquiescence bias, choosing the second theoretical position in each question, but the most likely explanation is that these respondents are simply inattentive and move through the questions too quickly.[15] We thus label this group "Inattentives." Notably, almost no politicians fall into this final class.

Taken together, the findings in figure 3 indicate that politicians and citizens have starkly different theories. While citizens are quite evenly divided in their theories between democratic optimists and democratic realists (with the final third falling into the undecided or acquiescence camps), politicians are overwhelmingly democratic realist in their orientation. These differences are substantively large and statistically significant in every country in our study.[16]

[15] Timing data confirms this interpretation; respondents in this group spent statistically significantly less time answering the questions than every other group ($p<0.01$).

[16] Multinomial logit and latent class regression models (Linzer and Lewis, 2011) confirm that politicians are significantly more likely than citizens to be democratic realists overall and in each case country. These models are available in the supplementary material.

While these general politician-citizen differences are consistent across countries, the proportion of politicians who are democratic realists does vary. Figure 4, which summarizes politicians' latent class membership by country (focusing on the two most theoretically important classes), confirms that a majority of politicians are democratic realists in each country. However, the figure also reveals striking variation across countries. In some countries, more than four in five politicians are democratic realists (such as Czechia, Canada, and Israel), whereas other countries have a substantial minority of democratic optimists among elected representatives (such as Switzerland, Australia, Sweden, and Denmark).

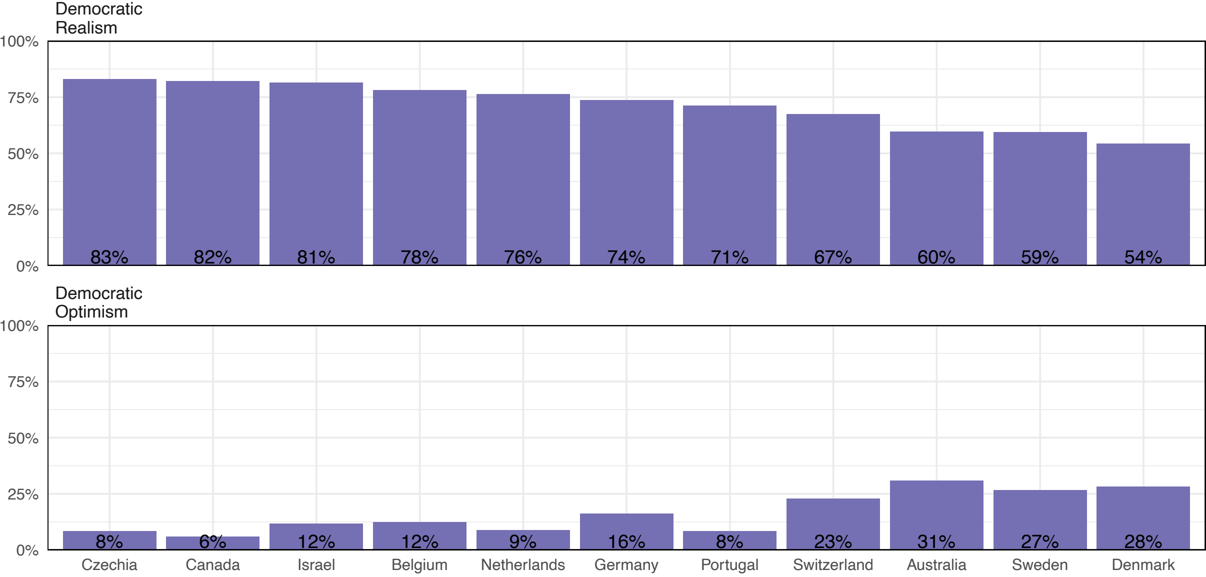

Figure 4: **Politicians' LCA Types, by Country**. Breakdown of Democratic Realism and Democratic Optimism types by Country.

The patterns in figure 4 are not intuitive, with institutionally and culturally similar countries (such as Canada and Australia) at opposite ends of the spectrum and very different countries (such as Belgium and Israel) closely resembling one another. However, the results in figure 4 are remarkably consistent, in that in each of our eleven country cases there is a clear majority of politicians who we can identify as democratic realists.

7 Discussion and Conclusion

This paper has provided what is, to our knowledge, a first-ever analysis of politicians' theories of voting behavior. Drawing on data from face-to-face structured interviews with nearly 1,000 politicians, we found that elected politicians hold widely varying views on central debates in elections and voting but tend, on average, to think that voters are unfair in their retrospective assessments of politicians' performance, identity-oriented rather than policy-oriented, retrospective, egocentric, single-issue-focused, leader-oriented, relatively uninformed, and oriented to the short term. In each of the eleven countries we study, we found that a majority of politicians belong to a latent class that we call "democratic realism" – a thin, minimalist, relatively pessimistic view of voters' capacities.

Beyond these general findings, many particulars are also notable. For instance, while politicians across our eleven countries tend to believe that voters place more emphasis on the qualities of party leaders than on those parties' principles, politicians do *not* differ from citizens in their views about voters' orientation to identity versus policy. This reflects a political elite that deviates from ordinary citizens in their theories primarily in the weight it gives to personalistic considerations. Politicians may be motivated to adopt this view because it makes their personal "brands" more consequential for their own success or their party's fortunes (and for some politicians, such as those elected in single-member districts, this may be a natural conclusion). For others, however, it may be an expression of a (potentially misguided) belief that voters have a strong attachment to leaders, a phenomenon that is closely associated with the weakening of party systems (Rahat and Kenig, 2018) and has more recently been argued to be a facilitating factor in processes of democratic backsliding (Matovski, 2021).

Politicians also differ strongly from citizens in their beliefs about the prevalence of single-issue voters. Some politicians may be motivated to adopt this belief if they are themselves focused on a single major priority as legislators, or if their party is a distinct issue-owner.

Whatever the individual motivations, politicians with single-issue theories of voting may be more inclined to develop (or perhaps more cautious about resisting) single-issue and niche parties, including radical right populist parties in Western democracy, who have gained electorally from focusing on the single issue of immigration (Dennison, 2020; Mudde, 1999).

More broadly, politicians' theories of voter demand for single-issue focus, personalism, short-term policy, or other representational behavior and policy outputs, are important factors to consider when evaluating representation gaps, elite political behavior, and concrete policy outcomes in future research. That politicians' views differ so strongly from those of citizens could also have implications for existing theories of non-elite political behavior, and in particular for models of vote choice and policy responsiveness. Such models often make similar assumptions on citizens and elites - for example, that they are both myopic (e.g. in models of the electoral business cycle) or are similarly interested / disinterested in fulfilling policy goals (e.g. in models of spatial voting). If politicians and voters have divergent views, as we document here, then there is value in reexamining these models and whether their predictions hold in light of updated assumptions. We see this as a priority for future work.

More generally, we hope that our findings will spark a new interest in elite theories of politics and their consequences. We see numerous opportunities to deepen and clarify our findings. For example, while we found that politicians are more likely than citizens to cluster into a "democratic realist" theoretical perspective, the results in figure 1 also demonstrate that politicians are quite variable in their theoretical beliefs. Future research should explore this variation in more detail, seeking to understand how politicians' individual characteristics (their ideological positions, their personality types, socio-demographic backgrounds, leadership positions) and career experiences (the parties into which they were recruited, the length of their careers, their electoral history) relate to their theoretical beliefs. Related work could explore how these theories develop throughout a politician's career, along with the kinds of experiences (e.g. electoral victory, electoral defeat, prominent elections in other jurisdictions) that shape this development. Going beyond individual politicians, the cross-national

differences we document (see Figure 4) suggest that there is also promise in the institutional and structural factors that affect how elected officials in different polities develop their views. Emerging methodological developments in Latent Class Analysis, enabling computationally efficient multilevel LCA with covariates (See Di Mari et al., 2023; Lyrvall et al., 2024), offer a particularly promising path forward for exploring heterogeneity in politicians' theories.

Future studies should also explore the implications of politicians' theories for their behavior as representatives. Evidence from past research suggests that politicians' theoretical beliefs *are* importantly related to how they think about public policy (Sheffer, Loewen and Lucas, 2023). This work could be extended to studies of politicians' communication strategies, policy prioritization, risk-taking behavior, campaign tactics, and their cooperation with other politicians. It could also be extended to important behaviors among citizens, such as shifts in turnout (Kostelka and Blais, 2021) and citizens' more general "participation repertoires" (Oser, 2022). Much of this work could be observational, connecting politicians' survey responses to observed behavior. To enable more precise causal inference, however, implicit theories could also be induced in experimental settings; researchers in other disciplines have found that implicit theories can be experimentally induced even in instances when individuals hold strong beliefs, and these experiments would be valuable for measuring the consequences of politicians' theories for behavioral tasks (Dweck, 2012). Panel studies measuring how politicians' theories develop throughout their careers in response to socialization and accumulated experience, election outcomes, and changes to patterns of voting behavior, will also help to clarify the causal mechanisms that shape politicians' theories.

Finally, we see considerable potential for studies of politicians' theories in other domains of politics. As we noted earlier, we expect that all democratically elected politicians possess quite well-developed theories of voting behavior. But politicians may have *other* theories that are also consequential for their actions. For instance, politicians' theories of the policy process – how issues arise on the public agenda, how decision-makers allocate attention to problems, the role of the public service, and so on – are also likely to be important for

politicians' engagement in the policy process (Hall, 1993; Stone, 1989). Politicians' other theories – ranging from implicit theories of the economy (Rubin, 2003) to theories of the causes and consequences of protest activity – are equally worthy of attention. Understanding the "psychological worlds" that these politicians inhabit will, we hope, ultimately clarify the concrete worlds of political participation, representation, and public policy that their theories help to create.

Human Participants

The authors declare the human subjects research in this article was reviewed and approved by the University of Calgary Research Ethics Board and certificate numbers are provided in the supplementary material. The author affirms that this article adheres to the principles concerning research with human participants laid out in APSA's Principles and Guidance on Human Subject Research (2020).

Ethics and Conflicts of Interest

The authors declare no ethical issues or conflicts of interest in this research.

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Data Transparency

Research documentation and data that support the findings of this study are openly available at the American Political Science Review Dataverse: https://doi.org/10.7910/DVN/QRAUDJ.

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Supplementary Information for "Politicians' Theories of Voting Behavior"

July 29, 2024

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1 Representativity of the data

Tables SM.1, SM.2, and SM.3 provide additional information on the data collection process and representativity for our elite datasets. Table SM.1 summarizes fieldwork, target population, response rate, and survey mode for each country in our analysis. Tables SM.2 and SM.3 summarize the distribution of gender, age, and seniority in our sample and population, by country (table SM.2) and the distribution of party ideology (drawn from the Chapel Hill Expert Survey's ideology scores) for parties in our sample and population (table SM.3).

Country	Timing Fieldwork	Target population	Total	Responses	Rate	Online	In Person
Australia	November 2022 – March 2023	151 Members of House of Representatives; 76 Senators; 46 Representatives not re-elected in 2022	273	58	0.21	36	22
Belgium (Flanders)	March 2022 – August 2022	89 Federal Dutch-speaking MPs (second chamber only); 11 Federal Dutch-speaking government members (not in parliament); 124 Flemish MPs; 9 Flemish government members (not in parliament); 17 Brussels Dutch-speaking MPs; 3 Brussels Dutch-speaking government members (not in parliament); 7 Flemish party leaders (six in parliament)	254	215	0.85	24	191
Canada	October 2022 – February 2023	337 federal MPs; 87 British Columbia MLAs; 86 Alberta MLAs; 124 Ontario MPPs; 124 Quebec MNAs	758	87	0.12	86	1
Czechia	April 2022 – October 2022	All 200 Deputies from the Chamber of Deputies in the Czech parliament	200	64	0.32	0	64
Denmark	March 2022 – August 2022	All 179 national Members of Parliament	179	48	0.27	20	28
Germany	May 2022 – March 2023	Sampled population of members of parliament at the national level (because of parliament size). Sampling was in four waves, ensuring representativity of parliament in terms of gender, party, and incumbent status.	658	178	0.27	167	11
Israel	May 2022 – February 2023	120 Members of Parliament; 28 Ministers (7 in Parliament); 26 Ex-MPs (not re-elected in November 2022 but serving more than 1 year)	174	55	0.32	12	43
Netherlands	May 2022 – September 2022	All 152 national Members of Parliament	152	38	0.25	22	16
Portugal	July 2022 - December 2022	All 230 national Members of Parliament	230	70	0.30	10	60
Sweden	October 2022 - February 2023	All 353 national Members of Parliament; 21 Ex-MPs not re-elected in 2022	374	67	0.19	67	0
Switzerland	May 2022 – December 2022	200 National Council (first chamber); 46 Council of States (second chamber)	246	103	0.42	0	103

Table SM.1: Response Rates and Fieldwork Approach, by Country

	Overall		Gender (Women)		Mean Age (SD)		Seniority (SD)	
Country	Part.	Pop.	Part.	Pop.	Part.	Pop.	Part.	Pop.
Australia	58 (21.%)	273	20 (34.5%)	109 (39.9%)	53.6 (9.6)	52.3 (9.6)	7.7 (7.4)	8.7 (7.7)
Canada	87 (11.5%)	758	25 (29%)	267 (35%)	51 (11)	52 (10.7)	6.5 (4.9)	7 (5.5)
Czechia	64 (32%)	200	21 (33%)	52 (26%)	48.45 (9.6)	52.13 (9.5)	4.8 (5.15)	5.7 (4.7)
Denmark	48 (27%)	179	23 (48%)	72 (40%)	51.92 (11.7)	49.94 (11.4)	9.98 (9.3)	10.9 (8.4)
Belgium (Flanders)	215 (85%)	254	89 (41%)	115 (45%)	47.5 (9.2)	47.4 (8.95)	9.0 (7.4)	9.1 (7.4)
Germany	178 (27%)	738	72 (41%)	258 (35%)	46.8 (12.0)	48.5 (11.1)	6.2 (6.5)	8.6 (7.8)
Israel	55 (32%)	174	17 (47%)	36 (21%)	55 (10.2)	54.4 (10.9)	6.3 (7.2)	8.2 (7.9)
Netherlands	38 (25%)	152	21 (55%)	59 (39%)	45.2 (7.5)	46.4 (9.2)	4.2 (3.5)	6.4 (5.7)
Portugal	70 (30%)	230	27 (39%)	85 (37%)	47.0 (12.6)	49.5 (11.1)	4.3 (6.0)	6.0 (7.8)
Sweden	67 (19%)	374	31 (46%)	178 (48%)	48.8 (11.5)	46 (11.2)	4.6 (5.1)	5.8 (5.8)
Switzerland	102 (41%)	246	42 (43%)	98 (40%)	52.11 (9.5)	52.57 (9.8)	6.87 (4.91)	7.99 (5.56)

Table SM.2: Comparison of Survey Participants and Population

	Overall		Left (CHES 1-3)		Centre (CHES 4-6)		Right (CHES 7-10)		Other	
Country	Part.	Pop.	Part.	Pop.	Part.	Pop.	Part.	Pop.	Part.	Pop.
Australia	58 (21.3%)	272	24 (41.4%)	129 (47.2%)	4 (6.9%)	16 (5.9%)	30 (51.7%)	127 (46.5%)		
Czechia	64 (32%)	200	0 (0%)	0 (0%)	45 (70%)	132 (66%)	19 (30%)	68 (34%)		
Denmark	48 (27%)	179	9 (19%)	34 (19%)	31 (65%)	113 (63%)	5 (10%)	23 (13%)	3 (6%)	9 (5%)
Belgium (Flanders)	215 (85%)	254	61 (28%)	67 (26%)	62 (29%)	75 (30%)	89 (41%)	108 (43%)	3 (1%)	4 (2%)
Germany	178 (27.1%)	738	103 (57.9%)	364 (49.3%)	46 (25.8%)	245 (33.2%)	28 (15.7%)	125 (16.9%)	1 (0.01%)	4 (0.01%)
Israel	55 (32%)	166	17 (31%)	63 (38%)	7 (13%)	23 (14%)	31 (57%)	80 (48%)		
Netherlands	38 (25%)	152	11 (28.95%)	34 (22.4%)	16 (42.11%)	51 (33.6%)	11 (28.95%)	67 (44%)		
Portugal	70 (30%)	230	2 (2.9%)	13 (5.7%)	60 (85.7%)	197 (85.6%)	8 (11.4%)	20 (8.9%)		
Sweden	67 (19%)	374	30 (45%)	156 (42%)	9 (13%)	45 (12%)	28 (42%)	173 (46%)		
Switzerland	102 (41%)	246	42 (42%)	80 (33%)	26 (26%)	61 (25%)	32 (32%)	104 (42%)	0 (0%)	1 (0%)

Table SM.3: Comparison of Survey Participants and Population

2 Items and Measurement: Additional Information

2.1 Item Correlations

Figures SM.1 and SM.2 summarize distributions and correlations for each of our eight items for the citizen data (Fig. SM.1)and the politician data (Fig. SM.2). Along the diagonal, the figures summarise the distribution of each item. In the upper triangle, the figure reports the correlation between respective items. In the bottom triangle, the figure plots the relationship between the respective variables with correlation ellipses.

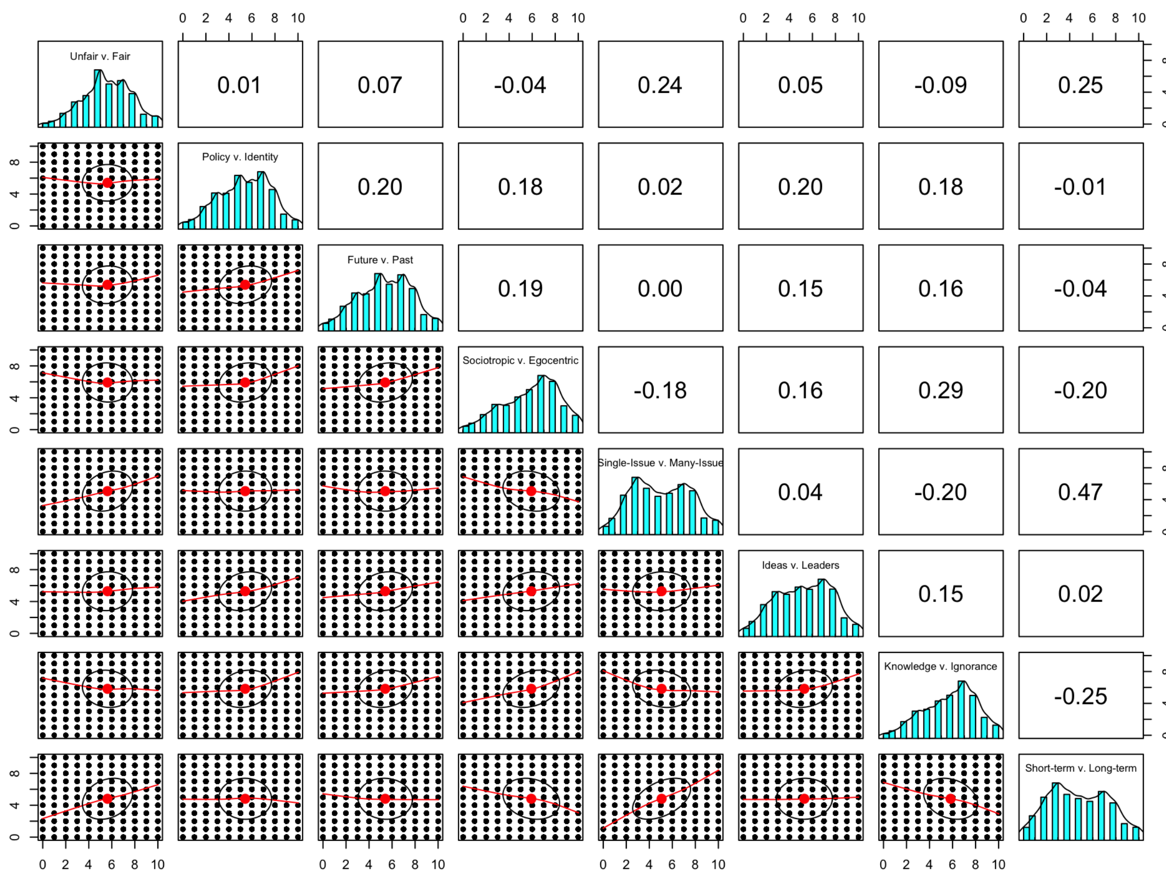


Figure SM.1: **Correlation and Distribution of Items: Citizens**.

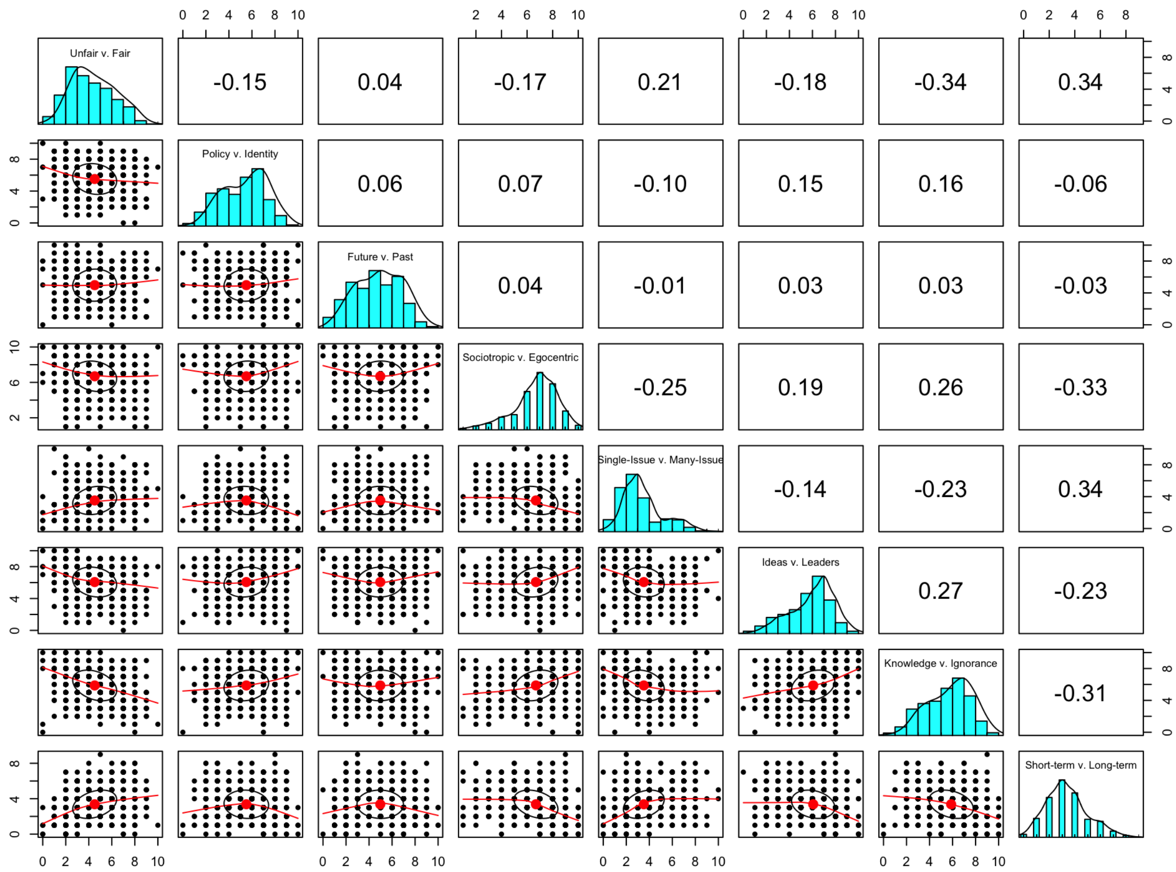


Figure SM.2: **Correlation and Distribution of Items: Politicians**.

2.2 Monitored vs. Unmonitored Surveys

When comparing the citizen and politician responses, some may worry that the results simply originate in differences of survey mode: citizens completed the survey online in an unobserved setting, while politicians completed the survey as part of a larger face-to-face interview. In practice, these differences are minimal, because politicians completed the survey on the same platform (Qualtrics) as did citizens, and researchers could not see politicians' responses as the politicians completed the survey. We thus expected that few differences between politicians and citizens were likely to emerge merely by virtue of the face-to-face setting. However, we can confirm this expectation by taking advantage of our pilot study of more than 1,000 Belgian local politicians, all of whom completed the survey in the same unobserved online context as the citizens. We used these data to replicate our politician-citizen comparison and report the results in Figure SM.3 below. Black coefficients in the figure represent Belgian politicians who completed the survey in a monitored setting and gray coefficients are the politicians who completed the survey in the unmonitored pilot study.

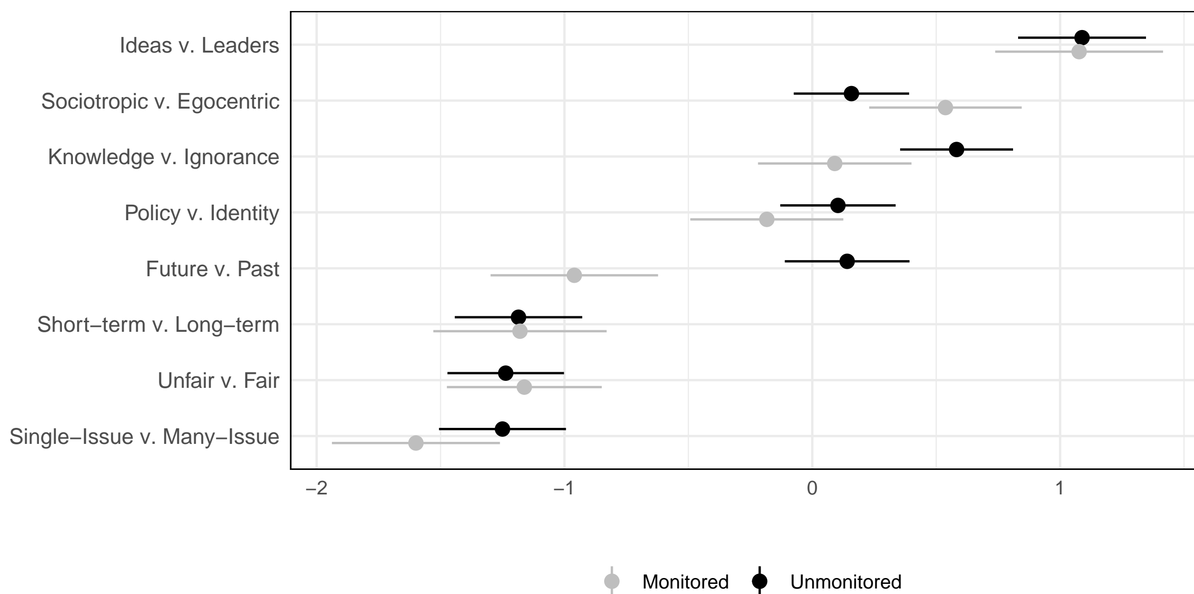


Figure SM.3: **Differences with Citizens, Belgian Local vs. National Politicians**.

We would not expect this test to produce identical results across levels, because Belgian local politicians are different from national politicians in important ways, including political experience and policy jurisdiction. What would be concerning, however, is if the politician-citizen differences were to simply disappear among politicians who completed the survey in an unobserved data collection setting. Reassuringly, this is not the case: coefficients for the differences between politicians and citizens are in fact similar in direction and magnitude for most comparisons (especially those we emphasize as robust differences in the main text, such as ideas vs. leaders, short-term vs. long-term, and fair vs. unfair blame). This finding reassures us that the politician-citizen differences we observe in the main text analysis do not originate in differences in survey mode.

2.3 Response Timing

Even if, as we just demonstrated, politicians' responses are similar across modes, we might worry that politicians still spent more time than citizens on their responses, and thus that the politicians' responses reflect more considered responses that citizens would also choose, were they to devote more time and reflection to the task. We tested for this possibility and report our results in Table SM.4. The table reports the difference in per-question time spent by politicians (1) vs. citizens (0) across two blocks of questions, the first of which contained three questions and the second of which contained six questions (timing data were collected at the level of these blocks rather than individual questions).

	Block 1	Block 2
	(1)	(2)
Politician	2.501	2.792*
	(6.925)	(1.512)
Constant	25.302***	14.876***
	(2.065)	(0.448)
Observations	12,707	12,633
Adjusted R^2	−0.0001	0.0002
Note:	*p<0.1; **p<0.05; ***p<0.01	

Table SM.4: Response Timing Comparison

Our results suggest that differences in timing between politicians and citizens are substantively small and not statistically significant at conventional levels. Politicians appear to have spent about 2.5 seconds more than citizens on each question, a substantively small amount of time that our analysis suggests may well simply reflect chance variation. We note that these differences are especially small given that some politicians, who were completing their surveys in the context of face-to-face with researchers, occasionally wished to briefly describe their responses before moving forward in the survey.

2.4 Response Extremity

Another possible concern – and one that is especially important when respondents are provided with 0-10 response scales – is that citizens and politicians are simply using the scales differently. If, for instance, citizens are more likely than politicians to choose extreme values on the scale, this could potentially threaten inferences about the firmness or extremity of citizens' vs. politicians' positions. While none of our inferences in the main text are specifically related to position extremity, it is nevertheless useful to explore how citizens and politicians used the available response scale. This helps us understand our results and make better decisions about coding and analysis. In figure SM.4, we report the differences in the

probability that politicians (1) or citizens (0) will use each point in the scale, where low values reflect points near the middle of the scale and high values reflect points near the ends of the scale.

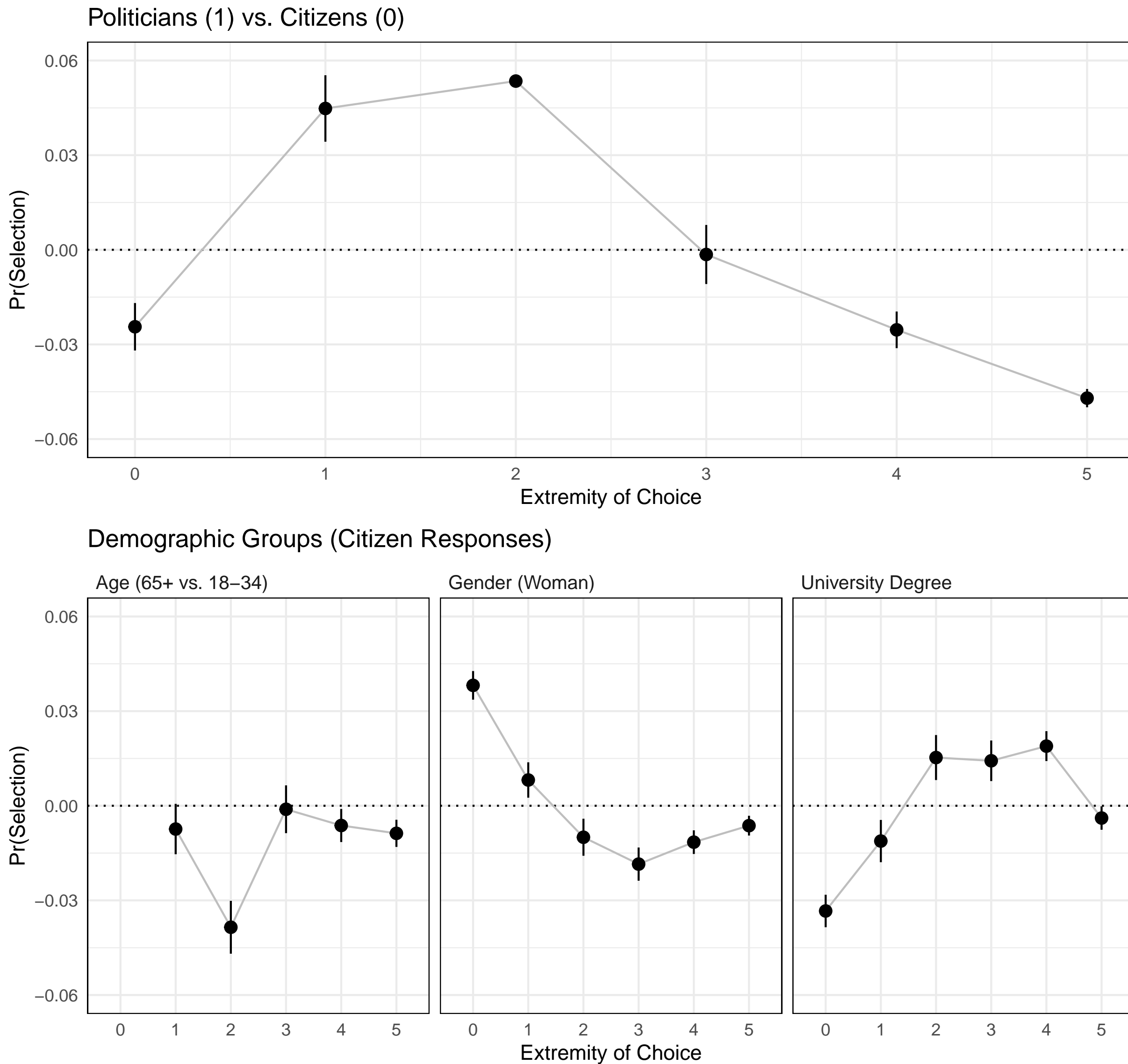


Figure SM.4: **Scale Use, Politicians vs. Citizens**.

We find that, in general, citizens and politicians do indeed make use of the scale somewhat differently. Politicians are about two percentage points less likely than citizens to select the exact centre point of the scale; this reflects the higher proportion of “undecided" theorists among citizens, as discussed in the main text. Politicians, however, are also more likely than citizens to select moderate points on the scale in the 3-4 and 6-7 range (the differences in probability are in the range of 4-5 percentage points) and less likely than citizens to select points at the extreme ends of the scale, in the 0-1 or 9-10 range (here the differences in probability are in the range of 3-5 percentage points).

We draw two conclusions from these differences. First, we note that the differences between politicians and citizens, while certainly present, are substantively small and probably reflect the fact that, with more than ten times the responses among citizens than politicians, our citizen data are more likely to include individuals with more extreme positions on all issues in the survey, including these. Second, and more importantly, these results speak to the need for comparisons in which we concern ourselves less with the *extremity* of a respondent's view and more with the *side* of the debate on which they have placed themselves. We emphasize that our final Latent Class Analysis in the main text recodes politician and citizen responses in such a way that the analysis ignores position extremity and focuses instead on which side of the debate the respondents place themselves. The results in figure SM.4 support this decision, because our recoded LCA analysis ensures that the differences between politician and citizen theory types are not simply due to differences in response extremity.

In the second set of panels in the figure, we provide additional analysis of response patterns among demographic groups in the citizen data: older respondents vs. younger respondents (bottom left), women vs. men and non-binary responsdents (bottom middle), and university degree holders versus others (bottom right). The results provide additional information on how citizen respondents used the available response scales. Women, for instance, were more likely than men to choose the middle position and were slightly more likely to choose a moderate position (4 or 6) rather than a more extreme option. Those with university degrees, in contrast, were *less* likely than those without degrees to select a middle or very moderate position, preferring to make choices in the 1-3 and 7-9 range. Overall, however, the differences are modest, and similar in magnitude to the citizen-politician differences in the top panel. This suggests that citizen-politician differences are unlikely to be strongly driven by differences in scale usage among citizens or among particular demographic subgroups of citizens.

2.5 Response Extremity and Main Text Figure 2

While our LCA relies on recoded data and thus is not vulnerable to differences in response extremity recorded in figure SM.4 above, our OLS models in Figure 2 in the main text *do* make comparisons using the full 0-10 scales. Given the small differences in response extremity between citizens and politicians, we may worry that the differences reported in Main Text Figure 2 are thus the result of response extremity rather than meaningful differences in beliefs between politicians and citizens.

To test this possibility, we recoded all citizen and politician responses to match those used in the LCA – responses on one side of the debate (0-4), responses in the centre (5), and responses on the other side of the debate (6-10). We then fit multinomial logit models to test for meaningful politician-citizen differences using these recoded values. We report the results in Figure SM.5, which summarizes the differences between the two sides of each debate, ignoring the central position.[1]

The results in figure SM.5 strongly align with our findings in the main text: politicians

[1] To be clear, the central position is included in the multinomial logit model, but we do not report these coefficients in the figure.

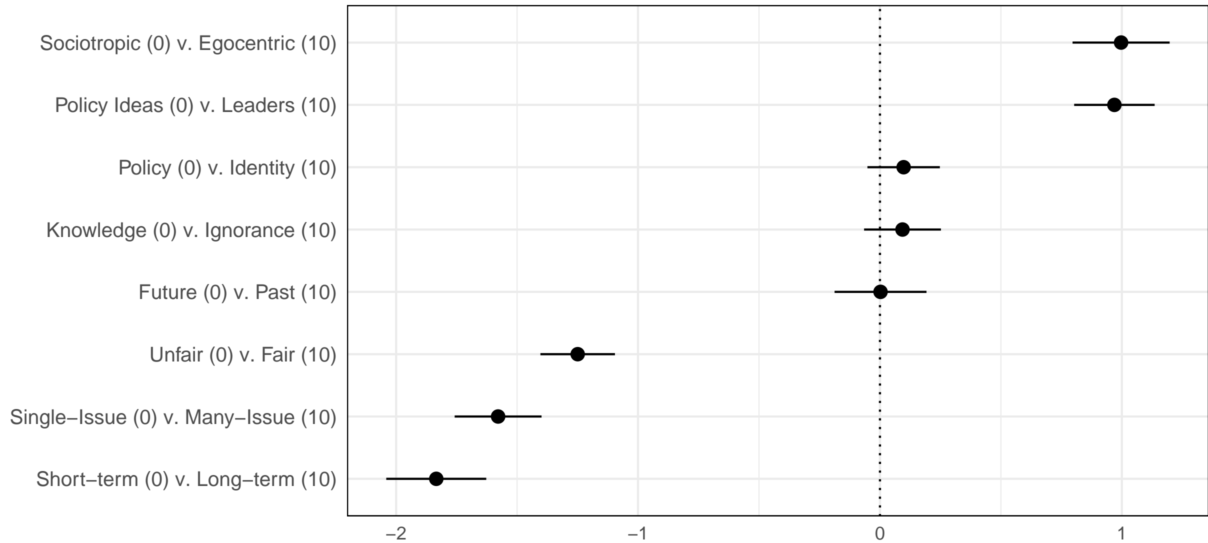


Figure SM.5: **Multinomial Logit, Politician vs. Citizen Responses**.

are more likely than citizens to endorse egocentric rather than sociotropic voting and leader-driven rather than issue-driven voting; there are no meaningful differences between politicians and citizens on policy vs. identity or knowledge vs. ignorance; and politicians are less likely than citizens to think that voters are clear-eyed in their retrospection, vote on the basis of many issues, or long-term in their orientations.

We find only one difference in this model when compared to the main text analysis: in this model, there are no meaningful differences between politicians and citizens on the prospective vs. retrospective variable. This is unsurprising; as we note in the main text, this difference is not consistent across countries. In other words, when we recode the data to ignore the extremity of responses and focus entirely on the *position* that the respondent takes on one side or the other of each theoretical debate, our results strongly reinforce the findings from the simpler OLS models reported in the main text.

3 Citizen Responses: Additional Data

3.1 Who Do Citizens Have in Mind?

When comparing how politicians and citizens answer our theory items, we might worry that while politicians have *voters* in mind, citizens have *themselves* in mind when answering the questions. If some forms of voting behaviour are more socially desirable than others (e.g. knowledgeable rather than ignorant voting), and if citizens are thinking of their own behaviour when answering the questions, then the observed differences between the two groups may simply emerge from differences in social desirability. In the main text, we argued that worries about differences in social desirability are less pronounced than one might at first believe; after all, politicians may be equally tempted to select socially desirable responses because the questions are ultimately about the individuals who elected them to office.

Fortunately, however, we can go further and test this possibility empirically, because we randomly assigned half of our citizen respondents to describe their *own* voting behaviour, while the other half of citizen respondents received questions about voting behaviour in general, identical to the questions asked of politicians. We summarize the differences between the two questions in Figure SM.6 below; the figure summarizes models (including country fixed effects) in which we compare the responses of citizen respondents randomly assigned to self-description to citizen respondents assigned to general description of voters' behaviour. The two groups are dramatically different: citizens asked about themselves tend strongly in the direction of long-term orientation, multiple-issue voting, fair blame, policy ideas, future orientation, knowledge, policy orientation, and sociotropic voting.

If we interpret these effects as reflecting the kinds of voting behaviour that citizens see in themselves and would like to see in others, these results offer a fascinating glimpse into citizens' implicit theories of normatively desirable voting behaviour. For our purposes, however, they also offer something more immediately practical: they provide strong evidence that, when answering the ordinary items about voting behaviour in general, citizens are *not* thinking only of themselves. These results suggest that citizens are not only able to understand the eight questions, but also understood that they were being asked to report their beliefs about how voters' behave in general.

This finding also has implications for our interpretation of the citizen-politician comparison in the main text. In Figure SM.7, we replicate the top panel of Figure 2 in the main text (the black coefficients) but add what the coefficients would look like if we instead compared citizens' self-perceptions to politicians' theories (the orange coefficients). Across all items, we see that the differences are considerably more extreme in the case of the orange coefficients, indicating even greater distance between the two positions.

Overall, then, while citizens are surely incorporating some degree of introspection in their theories of voting behavior, these results suggest that citizens are genuinely reflecting on voting behaviour in general when asked to respond to the items that are identical to the politician items and used in the main text. Citizens thus appear to be able not only to understand the eight theory items and offer responses, but also to be able to do so in a way that steps outside a (likely idealized) perception of self to reflect on voting behavior more generally.

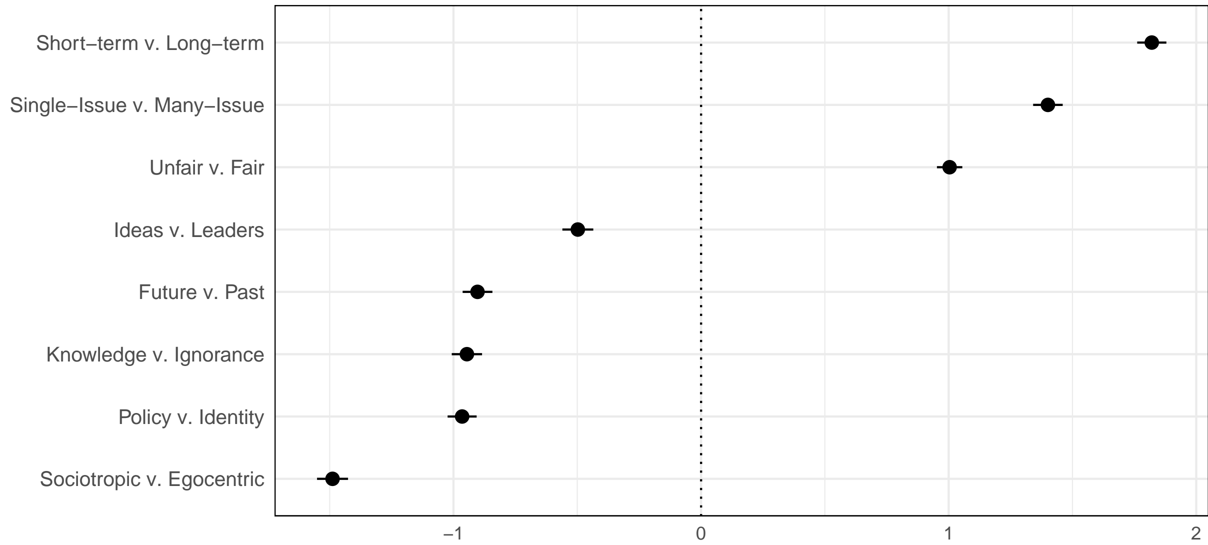


Figure SM.6: **Citizen Responses; Self-Description vs. Description of All Voters**. Difference in responses between citizens who were randomly assigned to the general theory question (identical to those answered by politicians) versus a question that asked how they themselves vote. Positive values indicate that respondents who received the "how you vote" frame were more likely to choose the right-hand pole of the debate; negative values indicate that they were more likely to choose the left-hand pole of the debate.

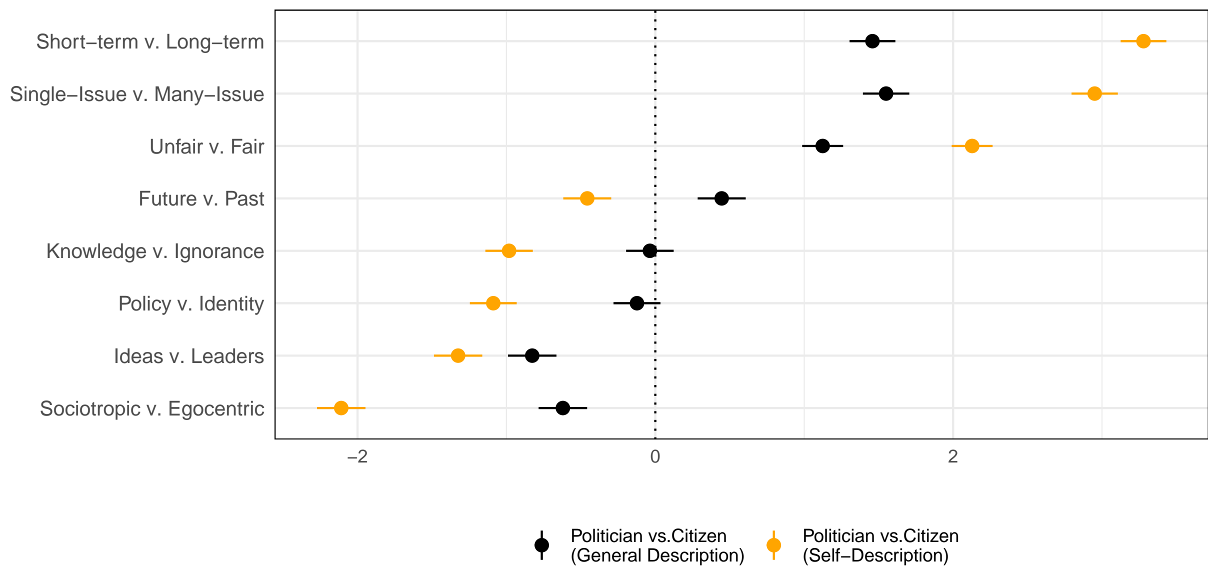


Figure SM.7: **Politicians vs. Citizens, by Citizen Question Type**. Average difference in responses between politicians and citizens when we use identical questions (black coefficients) or estimate citizen responses using the alternative question about how they themselves vote (orange coefficients).

3.2 Variation in Citizen Types

Are the citizen-politician differences that we observe in the main text due to *compositional* differences between politicians and citizens? In other words, are these differences a result of the fact that politicians are more likely than the citizens they represent to be older, better educated, and men? To test this possibility, Figure SM.8 summarizes the probability of belonging to each of our four latent classes among politicians (in green) and various subgroups of citizens (in blue).

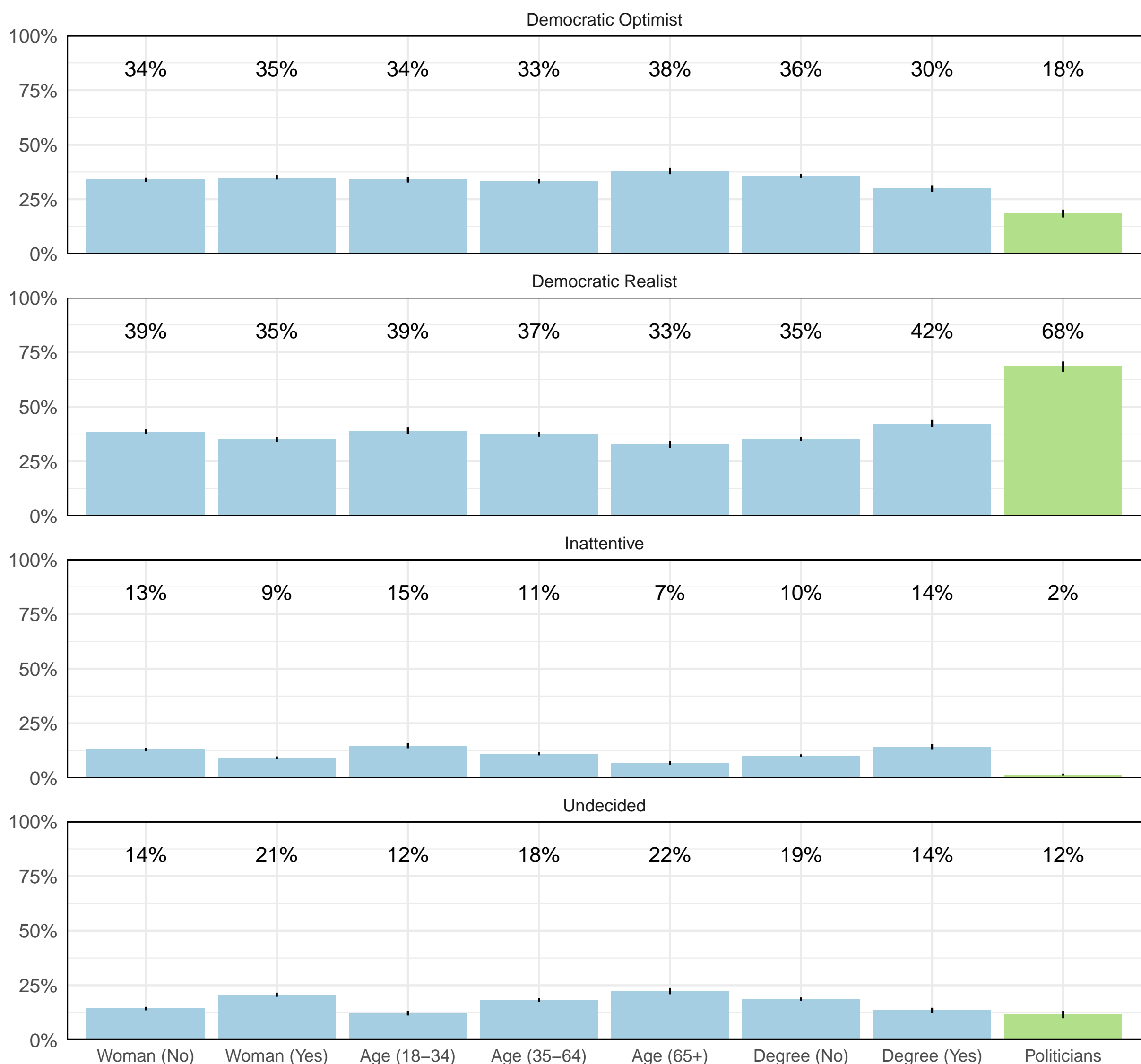


Figure SM.8: **Latent Class Membership, by Demographic Subgroups of Citizens.** Latent class membership among demographic subgroups of citizens (in blue) and politicians (in green). Politician-citizen differences persist within all demographic subgroups.

The results in Figure SM.8 suggest that there are indeed meaningful sources of variation in citizens' theories; for instance, those with university degrees are substantially more likely

to be democratic realists than those without university degrees. Still, what stands out most in Figure SM.8 is the much higher likelihood of democratic realism among politicians than among *any* of the demographic subgroups in the figure. In other words, while some subsets of the population are more or less likely to resemble politicians' theories, something about *being* a politicians appears to push individuals toward more "realist" theories even aside from their underlying socio-demographic characteristics.

4 Politicians' Theory Types: Country-Level Variation

Figure SM.9 provides a complete version of main text figure 4.

Figure SM.9: Politicians' LCA Types, by Country

5 Variance in Theoretical Beliefs: Additional Analysis

To assess within-country and across-country variance, we fit null multilevel models for each theory question – that is, multilevel models containing only varying country-level intercepts – and calculate Intraclass Correlation Coefficients for each item: $\frac{\sigma_j^2}{\sigma_j^2+\sigma_i^2}$, where σ_j^2 is between-group variance and σ_i^2 is within-group variance.

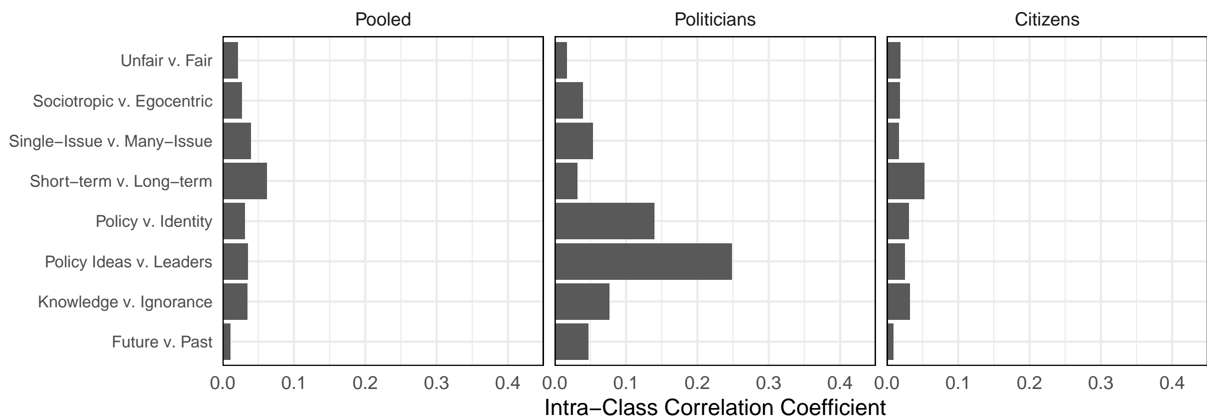


Figure SM.10: **Intra-Class Correlation Coefficients**.

Figure SM.10 summarises these analyses. ICC values are well below 0.1 in all but two cases: policy versus identity among politicians, and policy ideas versus leaders among politicians.

6 LCA: Robustness Tests and Alternative Clustering Approaches

As is standard in many Latent Class Analyses (Weller, Bowen and Faubert, 2020), our LCA began by recoding all theory questions into three theoretically salient basic types: a position on one side of the debate, a position in the exact centre of the debate, and a position on the other side of the debate. We then estimate latent classes using the poLCA package (Linzer and Lewis, 2011) in R (for "polytomous latent class analysis") for latent class solutions ranging from two to twenty classes, estimating each model with five different starting values to obtain global rather than local optimum solutions (Linzer and Lewis, 2011) and recording fit statistics for each latent class solution.

Methodologists recommend using multiple fit statistics to make decisions about the latent class solution to selection (Weller, Bowen and Faubert, 2020). We visualize three fit statistics in figure SM.11. To select an appropriate number of classes, researchers typically look for visible "elbows" in the fit statistics – points at which the marginal increase in fit begins to level off. Figure SM.11 reveals a distinct elbow for the four-class solution in all three fit statistics.

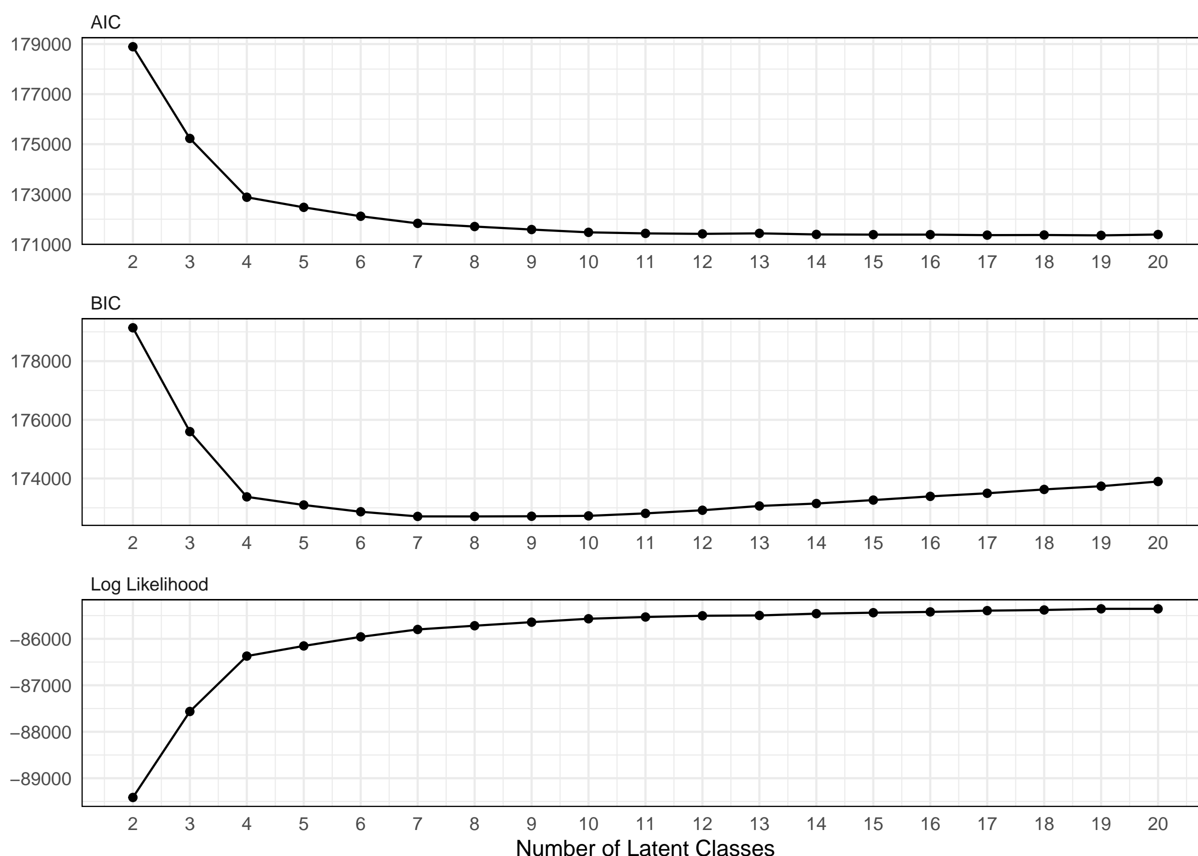
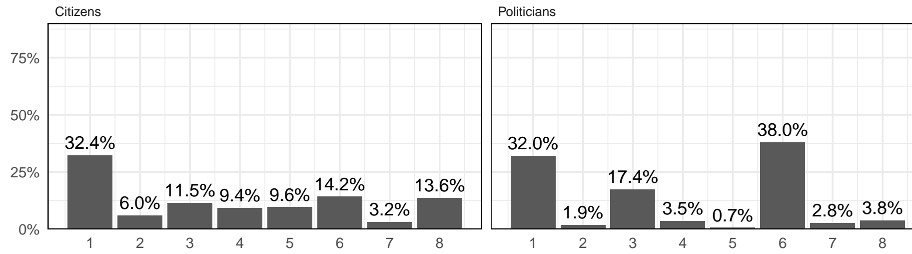


Figure SM.11: **Latent Class Analysis Fit Statistics**.

Some methodologists recommend using BIC as a criteria for selecting a class solution (Nylund, Asparouhov and Muthén, 2007). In our case, an eight-class solution minimizes BIC. Figure SM.12 visualizes this solution and demonstrates that, while necessarily more



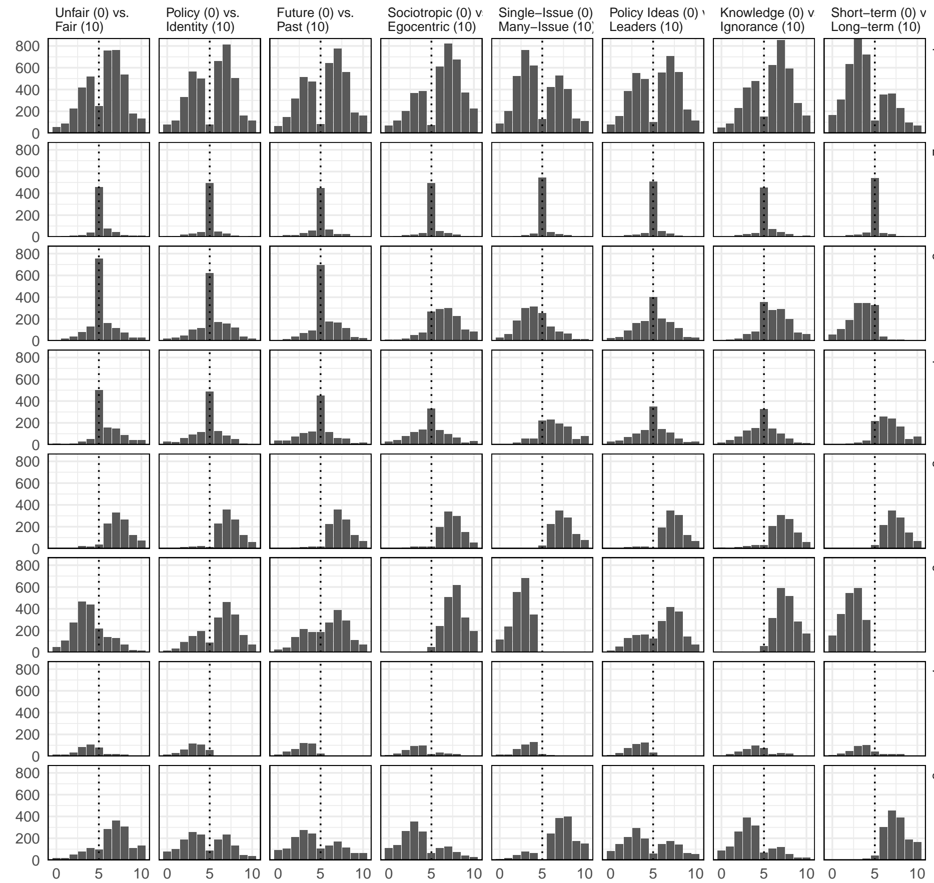


Figure SM.12: **Eight-Class LCA Solution**.

complex than the four-class solution, this alternative solution reinforces our interpretation in the main text. Notice that the most common class for politicians is characterized by strong "democratic realist" views, and that politicians are much more likely than citizens to belong to this class. A strong "democratic optimism" class is fairly common among citizens (13.6%) but very uncommon among politicians (3.8%). Politicians and citizens are equally likely to belong to a class with "realist" positions on most but not all issues (1), and politicians are more likely than citizens to belong to an "undecided weak realist" class (3). The remaining classes capture idiosyncratic responses or undecided respondents. Overall,

then, these findings reinforce our interpretation while adding little additional theoretical substance, supporting the value of the four-class solution. Following recommendations in the methodological literature, we rely on a combination of statistical fit and theoretical interpretability to select the four-class solution (Nylund, Asparouhov and Muthén, 2007).

Our main-text latent class analysis recodes each response into three simple types: one side, middle position, and the other side. This isolates the most theoretically important differences in our responses and makes the LCA solution as straightforward as possible to interpret. However, some may consider this too extreme: perhaps we want to distinguish between those who *strong* and *weak* positions on each theoretical debate. We believe that the three-category coding is most theoretically appropriate, because we are interested in understanding latent clustering for respondents' *beliefs* on each theory item, rather than clustering based on the strength of those beliefs. Nevertheless, to test the robustness of our findings, we carried out four-class LCA using an alternative coding that distinguishes the strength of each respondent's response.[2] We report the results of this analysis in figure SM.13.

Given the additional information contained in this second LCA model, we would not expect the results to be identical. Broadly speaking, however, the results reinforce our findings in the main text. Class one captures a "democratic optimism" perspective; citizens are much more likely to belong to this class. Classes two and four are broadly "realist" positions; politicians are more likely to belong to both. Class three are "undecideds" with a small minority of both citizens and politicians falling into this class. In general, then, we find that our interpretation of the differences between politicians and citizens are robust to this alternative (and in our view less theoretically defensible) coding of our variables.

6.1 Continuous Variable Approach: HCA

An even more extreme alternative to this recoding procedure could be to preserve the entire distribution of responses in the recoded data. We believe this approach is clearly inferior to our preferred approach on theoretical grounds, because it places much more weight on the extremity of the positions that respondents adopt rather than their actual *positions* on one side or the other of the debate. Even more importantly, this approach fails to distinguish theoretically important differences (such as the difference between choosing four and five on the scale) from less theoretically important differences (such as the difference between choosing three and four on the scale). This approach is also susceptible to variation in response extremity described in SM 2.4 above.

Nevertheless, it may be valuable to demonstrate that our results are broadly consistent even when we employ this less theoretically satisfactory clustering method. We fit a hierarchical cluster analysis (complete linkage) on our eight items and extract four classes from the resulting model. We visualize the results of this HCA approach in figure SM.14.

Cluster one captures more strongly realist views; politicians are more likely than citizens to belong to this cluster. Cluster two captures more weakly realist views; politicians and citizens are equally likely to belong to this cluster. Cluster three captures a strongly optimist

[2] The coding was 0:2 = strong view on one side, 3:4 = weak view on one side, 5 = middle position, 6:7 = weak view on the other side, and 8:10 = strong view on the other side.

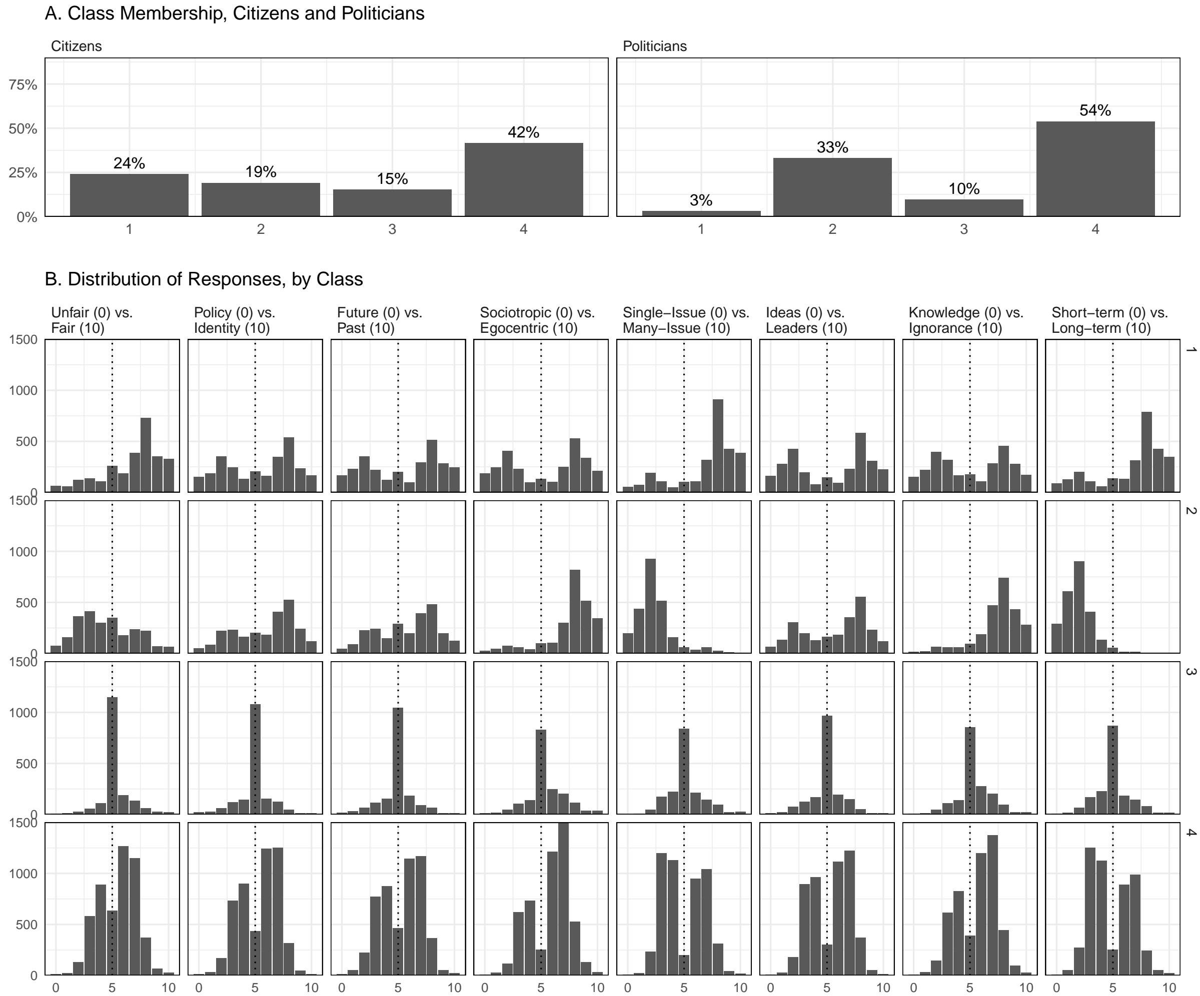


Figure SM.13: **Summary of LCA with Recoded Theory Items**.

position, and citizens are much more likely than politicians to belong to this cluster. Cluster four captures a more mixed position. Thus the hierarchical cluster analysis recovers similar findings to the latent class analysis that we employ in the main text. We note, however, the important absence here of a theoretically important group: those who tend to select the middle value (the "undecided" group) across many questions. In our view, this difference illustrates one of the important advantages of the LCA procedure using recoded question responses.

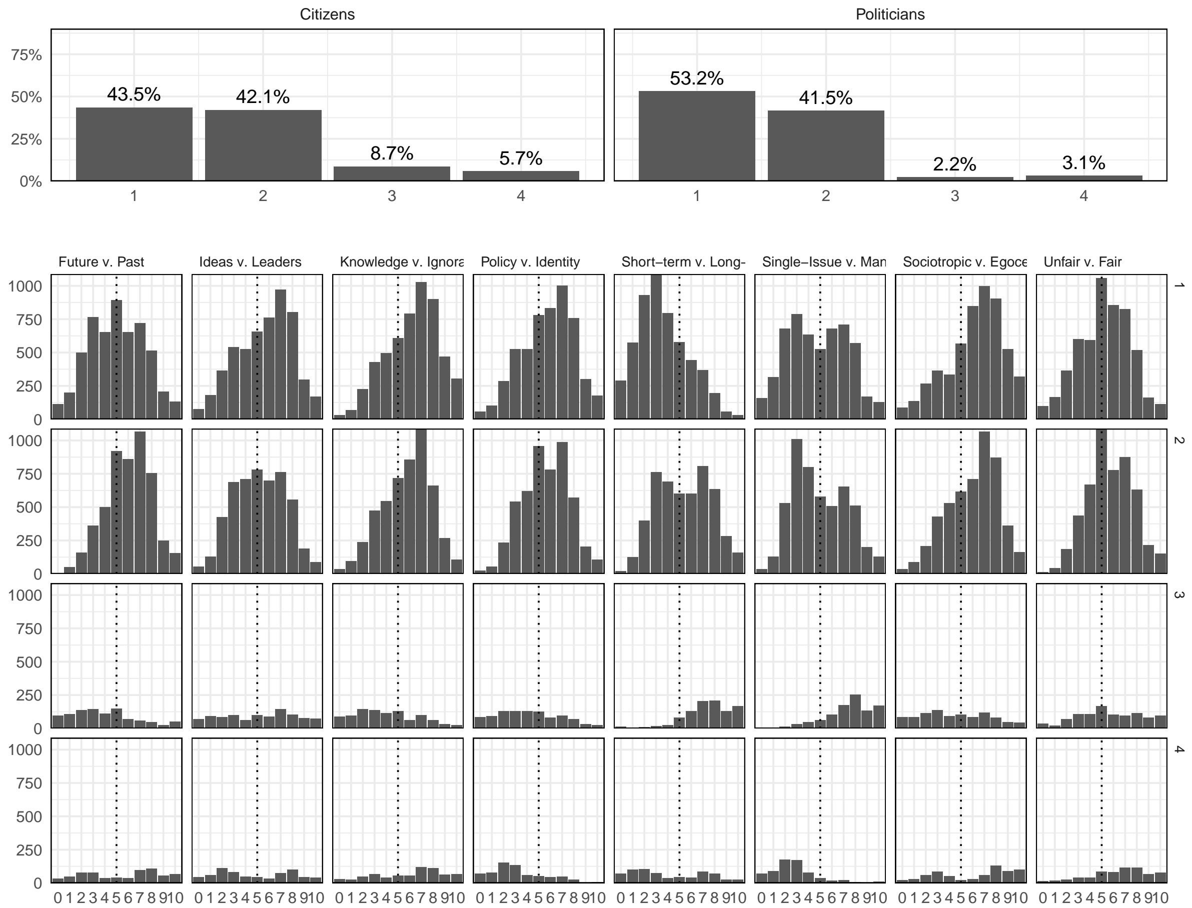


Figure SM.14: **Alternative Model: Hierarchical Cluster Analysis**.

7 Citizen-Politician Types: Additional Analysis

To confirm the visual differences in main text Figure 2 between politicians and citizens, we fit multinomial logit models in which class belonging is predicted by a politician vs. citizen indicator along with country fixed effects. Because the most theoretically important difference is between democratic optimists and democratic realists, we set democratic optimism as the base category in this analysis. Our results, reported in Table SM.5, confirm that the differences are statistically significant.

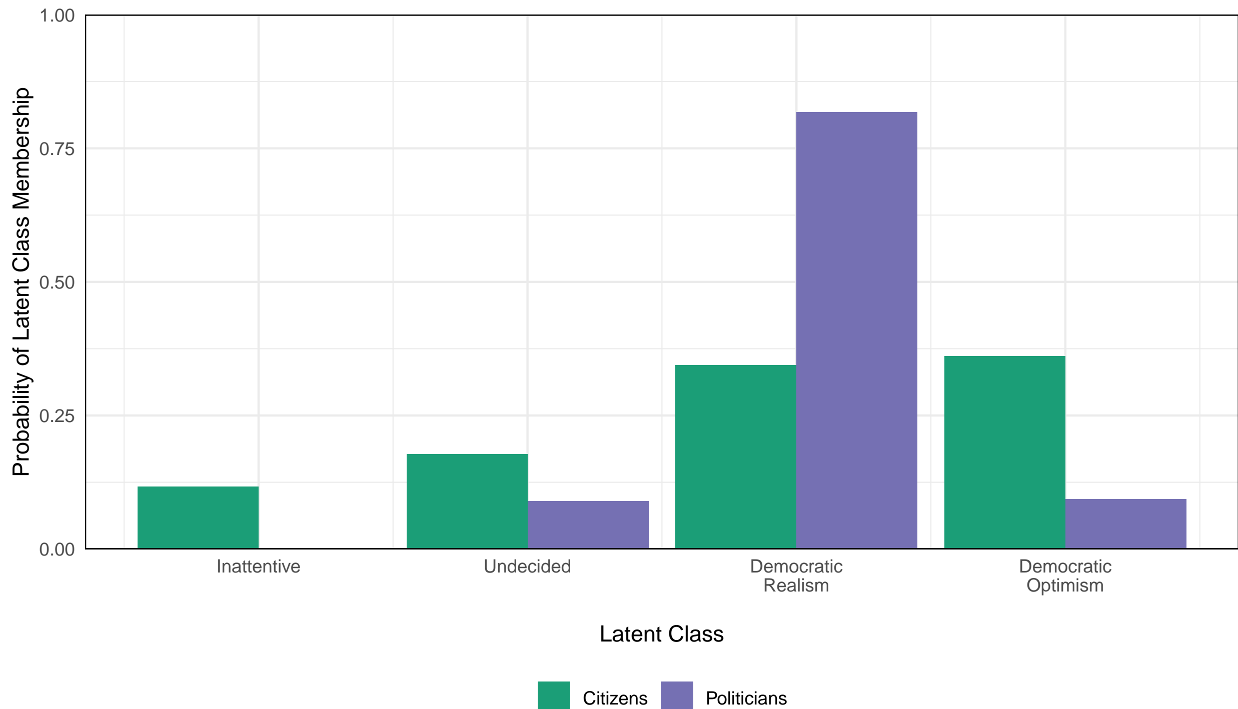


Figure SM.15: **Predicted Probabilities of Latent Class Membership, LCR Model**.

However, methodologists have demonstrated that this multi-step procedure produces biased estimates (Linzer and Lewis, 2011). We therefore fit a four-class Latent Class Regression model with the respondent type (Politician vs. Citizen) as a model covariate. Results confirm that politicians are significantly less likely than citizens to belong to the "democratic optimism" class ($p<0.01$). We plot the predicted probabilities of latent class membership drawn from this model in figure SM.15, confirming substantial differences between citizens and politicians.

	Democratic Realist	Undecided	Inattentive
	(1)	(2)	(3)
Politician	1.451***	0.265*	−1.528***
	(0.097)	(0.138)	(0.315)
Belgium	0.525***	0.366***	−0.145
	(0.110)	(0.133)	(0.132)
Canada	1.044***	0.572***	−0.696***
	(0.110)	(0.136)	(0.160)
Czechia	0.199*	0.409***	−1.160***
	(0.110)	(0.127)	(0.159)
Denmark	1.182***	0.500***	0.099
	(0.109)	(0.138)	(0.135)
Germany	0.357***	0.154	−0.425***
	(0.108)	(0.133)	(0.134)
Israel	0.908***	0.152	−0.621***
	(0.104)	(0.134)	(0.139)
Netherlands	1.088***	0.536***	−0.023
	(0.115)	(0.143)	(0.144)
Portugal	0.933***	0.275**	−0.280**
	(0.109)	(0.140)	(0.140)
Sweden	0.053	0.238*	−0.924***
	(0.110)	(0.128)	(0.144)
Switzerland	0.639***	0.529***	−0.515***
	(0.109)	(0.130)	(0.143)
Constant	−0.552***	−1.038***	−0.701***
	(0.082)	(0.098)	(0.088)
Akaike Inf. Crit.	29,706.050	29,706.050	29,706.050
Note:			*p<0.1; **p<0.05; ***p<0.01

Table SM.5: Citizen-Politician Comparison (Base = Democratic Optimism)

8 Additional Information: Ethics Protocols

This research project involved human participants. Political elite and public opinion surveys were approved by the following Research Ethics Boards: [Removed for review]

- Australia: Humanities and Social Sciences DERC, Australian National University (2022-408)
- Canada: University of Calgary Research Ethics Board (REB22-0205) and University of Toronto Research Ethics Board (REB 00043361)
- Czechia: Commission for Ethics in Research of Faculty of Social Sciences, Charles University
- Denmark: Ethics Committee, Department of Political Science, University of Copenhagen (2022-04)
- Flanders (Belgium): Ethical Advice Committee, Social and Human Sciences, University of Antwerp (SHW_22_032)
- Francophone Belgium: Ethical Committee, Social and Human Sciences, Université libre de Bruxelles (R2022-004)
- Germany: Ethical Advice Committee, University of Konstanz (10-2021)
- Israel: University Committee for the Use of Human Subjects in Research, Hebrew University of Jerusalem (29042022)
- Luxembourg: LISER Research Ethics Committee
- Netherlands: Ethics Committee, Faculty of Behavioral Sciences (2022-PCJ-1477)
- Norway: Data Protection Services, Norwegian Agency for Shared Services in Education and Research (770184)
- Portugal: Ethical Committee of the Institute of Social Sciences, University of Lisbon (07-2022)
- Sweden: Ekprövningsmyndighetens (2022-00734-01)
- Switzerland: University of Geneva Ethics Commission (CUREG-2021-10-10), Government of the Canton of Geneva (379-2022)

In this section, we describe our research procedures in relation to APSA Council's 2020 Principles and Guidance for Human Subjects Research.

None of the researchers involved in this study have any potential or perceived conflicts of interest in relation to this research. Participants in the survey of political elites were not compensated for their participation. Participants in the public opinion surveys were online panel members recruited by Dynata, a commercial survey sample firm. All participants were

compensated in keeping with Dynata's recruitment policy. As is customary for commercial sample providers, the exact terms of compensation are proprietary and were not shared with the researchers.

Consent. All participants provided informed consent prior to starting the online surveys, and were free to withdraw from the study at any time by closing their browsers. Informed consent documents were written in accessible language.

Deception. This project did not involve deception.

Harm and trauma. Our surveys were assessed by the research ethics review committees and boards listed above as having minimal risk to participants. The participant pool was not primarily comprised of members of vulnerable or marginalized groups, and we did not anticipate differential benefits or harms for particular groups.

Confidentiality. Confidentiality was guaranteed to all participants. All replication data and code are pseudonymized to protect the confidentiality of both public and elite respondents.

Impact. Our research did not involve intervention in political processes.

Laws and Regulations. Our research complies with applicable laws and regulations on human subjects research in the case countries.

Shared responsibility. All members of the research team, including research assistants, were aware of applicable ethics requirements and the necessity of protecting respondents' privacy and confidentiality.

Power. Respondents to public opinion surveys in our study were members of an online panel and their participation in the survey was entirely voluntary. For this reason, we are unaware of power imbalances that may have caused participants to feel compelled to participate. This is all the more true of our politician sample, which consisted of elected representatives at the national and regional levels; these public figures are in positions of power and are unlikely to have experienced power imbalances in relation to a request to participate in a confidential academic survey.

9 Citizen-Politician Differences: Full Models

Table SM.6 provides full results (plotted in figure 2 in main text). All models are OLS.

	Unfair v. Fair	Policy v. Identity	Future v. Past	Sociotropic v. Egocentric	Single-Issue v. Many-Issue	Ideas v. Leaders	Knowledge v. Ignorance	Short-term v. Long-term
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Politician	-0.454^{***}	0.841^{***}	0.036	0.127^{*}	-1.492^{***}	-1.534^{***}	0.639^{***}	-1.171^{***}
	(0.080)	(0.081)	(0.078)	(0.077)	(0.084)	(0.084)	(0.082)	(0.074)
Belgium	0.279^{***}	-0.498^{***}	0.500^{***}	0.361^{***}	-1.314^{***}	-1.051^{***}	0.930^{***}	-0.439^{***}
	(0.099)	(0.100)	(0.097)	(0.095)	(0.104)	(0.104)	(0.101)	(0.091)
Canada	-0.064	-0.334^{***}	0.131	0.033	-0.669^{***}	-0.580^{***}	0.292^{***}	-0.509^{***}
	(0.102)	(0.103)	(0.099)	(0.098)	(0.107)	(0.107)	(0.104)	(0.093)
Czechia	-0.126	-0.341^{***}	0.459^{***}	-0.110	-1.588^{***}	-0.959^{***}	0.777^{***}	-0.559^{***}
	(0.102)	(0.103)	(0.100)	(0.098)	(0.107)	(0.107)	(0.105)	(0.094)
Denmark	-0.399^{***}	-0.710^{***}	-0.634^{***}	-0.541^{***}	-0.947^{***}	-0.537^{***}	-0.098	-0.368^{***}
	(0.102)	(0.104)	(0.100)	(0.098)	(0.107)	(0.107)	(0.105)	(0.094)
Germany	-0.137	-0.595^{***}	-0.452^{***}	-0.018	-0.483^{***}	-0.446^{***}	0.383^{***}	-0.220^{**}
	(0.100)	(0.102)	(0.098)	(0.097)	(0.105)	(0.105)	(0.103)	(0.092)
Israel	0.121	0.202^{**}	0.025	1.025^{***}	-1.782^{***}	-1.116^{***}	0.162	-1.061^{***}
	(0.097)	(0.099)	(0.095)	(0.094)	(0.102)	(0.102)	(0.100)	(0.089)
Netherlands	0.093	-0.582^{***}	0.437^{***}	0.421^{***}	-1.296^{***}	-0.960^{***}	0.719^{***}	-0.651^{***}
	(0.105)	(0.107)	(0.103)	(0.102)	(0.111)	(0.111)	(0.108)	(0.097)
Portugal	0.264^{***}	-0.196^{*}	0.630^{***}	0.225^{**}	-1.498^{***}	-0.689^{***}	0.359^{***}	-0.346^{***}
	(0.102)	(0.103)	(0.100)	(0.098)	(0.107)	(0.107)	(0.104)	(0.094)
Sweden	-0.437^{***}	-0.978^{***}	-0.388^{***}	0.086	-0.279^{***}	-0.510^{***}	-0.100	-0.500^{***}
	(0.101)	(0.103)	(0.099)	(0.098)	(0.107)	(0.106)	(0.104)	(0.093)
Switzerland	-0.161	-1.266^{***}	-0.257^{***}	0.066	-1.036^{***}	-0.907^{***}	0.299^{***}	-0.465^{***}
	(0.101)	(0.102)	(0.098)	(0.097)	(0.106)	(0.106)	(0.103)	(0.093)
Constant	5.452^{***}	5.767^{***}	5.789^{***}	5.251^{***}	5.828^{***}	5.794^{***}	5.586^{***}	6.103^{***}
	(0.074)	(0.075)	(0.072)	(0.071)	(0.078)	(0.078)	(0.076)	(0.068)
Observations	12,383	12,396	12,400	12,377	12,394	12,392	12,386	12,393
Adjusted R^2	0.011	0.035	0.031	0.028	0.068	0.042	0.025	0.032

Note: *p<0.1; **p<0.05; ***p<0.01

Table SM.6: Citizen-Politician Comparison: Pooled Data

	Unfair v. Fair										
	Australia	Canada	Czechia	Denmark	Belgium	Germany	Israel	Netherlands	Portugal	Sweden	Switzerland
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Politicians	-0.451	-0.960^{***}	0.108	0.076	-0.761^{**}	-0.974^{***}	-0.026	-0.433	-0.167	-0.653^{**}	0.438^{**}
	(0.356)	(0.172)	(0.274)	(0.316)	(0.325)	(0.196)	(0.342)	(0.389)	(0.314)	(0.284)	(0.220)
Constant	5.451^{***}	5.815^{***}	5.345^{***}	5.295^{***}	5.066^{***}	5.390^{***}	5.557^{***}	5.544^{***}	5.699^{***}	5.027^{***}	5.215^{***}
	(0.082)	(0.070)	(0.076)	(0.076)	(0.067)	(0.075)	(0.065)	(0.076)	(0.075)	(0.069)	(0.064)
Observations	1,001	1,276	1,105	1,074	1,081	1,185	1,345	948	1,095	1,122	1,151
Adjusted R^2	0.001	0.023	-0.001	-0.001	0.004	0.020	-0.001	0.0003	-0.001	0.004	0.003

Note: *p<0.1; **p<0.05; ***p<0.01

Table SM.7: Citizen-Politician Comparison by Country

	Policy v. Identity										
	Australia	Canada	Czechia	Denmark	Belgium	Germany	Israel	Netherlands	Portugal	Sweden	Switzerland
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Politicians	0.276	1.077***	1.527***	1.164***	0.561*	0.940***	1.559***	1.420***	0.740**	0.837***	−0.704***
	(0.347)	(0.173)	(0.278)	(0.306)	(0.324)	(0.193)	(0.346)	(0.387)	(0.323)	(0.300)	(0.231)
Constant	5.798***	5.230***	5.380***	5.407***	5.069***	5.158***	5.941***	5.164***	5.577***	4.789***	4.633***
	(0.081)	(0.071)	(0.078)	(0.073)	(0.067)	(0.074)	(0.068)	(0.075)	(0.078)	(0.073)	(0.068)
Observations	998	1,269	1,103	1,092	1,087	1,192	1,346	947	1,094	1,121	1,147
Adjusted R^2	−0.0004	0.029	0.026	0.012	0.002	0.019	0.014	0.013	0.004	0.006	0.007
Note:											*p<0.1; **p<0.05; ***p<0.01

Table SM.8: Citizen-Politician Comparison by Country

	Future v. Past										
	Australia	Canada	Czechia	Denmark	Belgium	Germany	Israel	Netherlands	Portugal	Sweden	Switzerland
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Politicians	−0.093	0.091	0.386	0.547*	0.086	0.157	0.753**	−0.237	−0.793***	−0.091	−0.530**
	(0.341)	(0.158)	(0.258)	(0.289)	(0.338)	(0.188)	(0.349)	(0.346)	(0.297)	(0.306)	(0.233)
Constant	5.796***	6.280***	5.893***	6.218***	5.153***	5.320***	5.787***	6.237***	6.465***	5.409***	5.581***
	(0.079)	(0.065)	(0.072)	(0.070)	(0.070)	(0.071)	(0.067)	(0.067)	(0.070)	(0.074)	(0.068)
Observations	997	1,269	1,109	1,094	1,089	1,190	1,344	945	1,095	1,120	1,148
Adjusted R^2	−0.001	−0.001	0.001	0.002	−0.001	−0.0003	0.003	−0.001	0.006	−0.001	0.004
Note:											*p<0.1; **p<0.05; ***p<0.01

Table SM.9: Citizen-Politician Comparison by Country

	Sociotropic v. Egocentric										
	Australia	Canada	Czechia	Denmark	Belgium	Germany	Israel	Netherlands	Portugal	Sweden	Switzerland
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Politicians	−0.156	−0.183	0.752***	0.201	−0.453	0.039	1.388***	0.839**	−0.069	0.133	−0.113
	(0.341)	(0.157)	(0.265)	(0.294)	(0.332)	(0.184)	(0.324)	(0.359)	(0.319)	(0.266)	(0.228)
Constant	5.267***	5.665***	5.236***	5.138***	4.735***	5.246***	6.227***	5.647***	5.488***	5.337***	5.337***
	(0.079)	(0.064)	(0.073)	(0.070)	(0.069)	(0.069)	(0.064)	(0.069)	(0.076)	(0.065)	(0.067)
Observations	999	1,276	1,103	1,080	1,081	1,177	1,349	949	1,097	1,119	1,147
Adjusted R^2	−0.001	0.0003	0.006	−0.0005	0.001	−0.001	0.013	0.005	−0.001	−0.001	−0.001
Note:											*p<0.1; **p<0.05; ***p<0.01

Table SM.10: Citizen-Politician Comparison by Country

	Single-Issue v. Many-Issue										
	Australia	Canada	Czechia	Denmark	Belgium	Germany	Israel	Netherlands	Portugal	Sweden	Switzerland
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Politicians	−1.847***	−1.179***	−2.164***	−1.326***	−0.944***	−2.192***	−1.092***	−0.910**	−0.807**	−1.917***	−1.117***
	(0.363)	(0.178)	(0.291)	(0.325)	(0.350)	(0.196)	(0.356)	(0.411)	(0.332)	(0.321)	(0.238)
Constant	5.847***	4.461***	5.211***	4.230***	4.857***	5.446***	4.031***	4.510***	4.291***	5.574***	4.760***
	(0.084)	(0.073)	(0.081)	(0.078)	(0.072)	(0.075)	(0.068)	(0.079)	(0.079)	(0.078)	(0.070)
Observations	1,000	1,269	1,105	1,092	1,091	1,188	1,341	945	1,094	1,123	1,146
Adjusted R^2	0.024	0.033	0.047	0.014	0.006	0.095	0.006	0.004	0.004	0.030	0.018
Note:											*p<0.1; **p<0.05; ***p<0.01

Table SM.11: Citizen-Politician Comparison by Country

	Ideas v. Leaders										
	Australia	Canada	Czechia	Denmark	Belgium	Germany	Israel	Netherlands	Portugal	Sweden	Switzerland
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Politicians	−1.809***	−1.599***	−2.107***	−1.521***	−0.519	−1.731***	−1.577***	−1.211***	−0.944***	−1.554***	−1.402***
	(0.361)	(0.173)	(0.289)	(0.324)	(0.358)	(0.201)	(0.367)	(0.383)	(0.328)	(0.315)	(0.238)
Constant	5.809***	4.754***	5.259***	4.834***	5.214***	5.377***	4.680***	4.822***	5.071***	5.286***	4.876***
	(0.084)	(0.071)	(0.081)	(0.078)	(0.074)	(0.076)	(0.070)	(0.075)	(0.079)	(0.077)	(0.069)
Observations	996	1,269	1,103	1,094	1,091	1,189	1,344	946	1,095	1,121	1,144
Adjusted R^2	0.024	0.063	0.045	0.019	0.001	0.058	0.013	0.009	0.007	0.020	0.029
Note:											*p<0.1; **p<0.05; ***p<0.01

Table SM.12: Citizen-Politician Comparison by Country

	Knowledge v. Ignorance										
	Australia	Canada	Czechia	Denmark	Belgium	Germany	Israel	Netherlands	Portugal	Sweden	Switzerland
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Politicians	0.538	0.537***	0.734***	0.919***	0.847**	0.816***	0.297	0.409	0.619*	0.537*	0.590**
	(0.367)	(0.157)	(0.279)	(0.330)	(0.347)	(0.190)	(0.361)	(0.344)	(0.338)	(0.306)	(0.235)
Constant	5.592***	6.533***	5.870***	6.346***	5.479***	5.943***	5.761***	6.314***	5.946***	5.492***	5.889***
	(0.085)	(0.064)	(0.078)	(0.080)	(0.071)	(0.073)	(0.071)	(0.067)	(0.080)	(0.075)	(0.068)
Observations	999	1,269	1,104	1,089	1,086	1,191	1,345	945	1,094	1,119	1,145
Adjusted R^2	0.001	0.008	0.005	0.006	0.005	0.014	−0.0002	0.0004	0.002	0.002	0.005
Note:											*p<0.1; **p<0.05; ***p<0.01

Table SM.13: Citizen-Politician Comparison by Country

	Short-term v. Long-term										
	Australia	Canada	Czechia	Denmark	Belgium	Germany	Israel	Netherlands	Portugal	Sweden	Switzerland
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Politicians	−1.358***	−1.162***	−1.461***	−1.466***	−0.943***	−1.666***	−1.057***	−0.573	−0.647**	−0.922***	−0.747***
	(0.322)	(0.159)	(0.260)	(0.289)	(0.303)	(0.168)	(0.316)	(0.360)	(0.288)	(0.275)	(0.196)
Constant	6.113***	5.662***	5.616***	5.561***	5.725***	5.955***	5.038***	5.430***	5.728***	5.588***	5.602***
	(0.074)	(0.065)	(0.072)	(0.070)	(0.062)	(0.064)	(0.063)	(0.069)	(0.069)	(0.067)	(0.057)
Observations	1,001	1,274	1,108	1,083	1,087	1,181	1,344	949	1,097	1,123	1,146
Adjusted R^2	0.017	0.039	0.027	0.022	0.008	0.076	0.008	0.002	0.004	0.009	0.012
Note:											*p<0.1; **p<0.05; ***p<0.01

Table SM.14: Citizen-Politician Comparison by Country

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