The Opinion-Policy Nexus in Europe and the Role of Political Institutions

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Abstract

A strong link between citizen preferences and public policy is one of the key goals and criteria of democratic governance. Yet, our knowledge about the extent to which public policies on specific issues are in line with citizen preferences in Europe is limited. In this article, we report the first study of the link between public opinion and public policy that covers a large and diverse sample of concrete public policy issues in 31 European democracies. The findings demonstrate a strong positive relationship and a substantial degree of congruence between public opinion and the state of public policy. We also examine whether political institutions, including electoral systems and the horizontal and vertical division of powers, influence the opinion-policy link. The evidence for such effects is limited, which suggests that the same institutions might affect policy representation in countervailing ways through different mechanisms.

Keywords: policy representation, policy congruence, policy responsiveness, public opinion, institutions

INTRODUCTION

It is a defining feature of any liberal and democratic political system that policy reflects the will of the people (see e.g. Dahl 1956; Pitkin 1967 and, more recently, Przeworski 2010). The match between public preferences and public policy cannot be expected to be perfect and instantaneous. In some cases – for example, when it comes to possible infringements of fundamental human rights or the repression of minorities – it might not even be normatively desirable. However, no political system that allows for gross, sustained, and systematic differences between what the public wants and what policies the government delivers can be considered liberal and democratic (cf. Rehfeld 2009: 214).

Therefore, it is important to assess how strong the link between public opinion and public policy is in order to obtain a comprehensive and nuanced picture of the quality of democracy in Europe. Yet, our knowledge about the link between public opinion and the public policies in place across European democracies is still limited. Previous studies have investigated a large number of countries but along very general policy dimensions, like leftright (Powell 2006; Golder and Stramski 2010; Blais and Bodet 2006; Golder and Lloyd 2014; Ferland 2016), general government spending (Wlezien and Soroka 2012) or broader policy areas (Hobolt and Klemmensen 2008; Soroka and Wlezien 2010). We contribute to this literature with a study of the link between public opinion and policy that simultaneously includes a large number of European countries, uses data on concrete policy outcomes, and covers a relatively large number of different policy areas. Specifically, we compare public opinion towards 20 specific policy issues with the status of these policies in 31 European countries in a cross-sectional design. Instead of relying on aggregate or indirect measures of policy, we determine the actual state of policy for specific policy issues within broader policy domains in each country. This approach has the advantages of not requiring the assumption that citizens' policy preferences neatly map onto a single dimension, such as liberalism (Converse 1964; Lax and Phillips 2012), and allowing us to measure opinion and policy on the same specific issues (Berry et al. 1993; Lax and Phillips 2012; Wlezien 2017).

The second aim of this study is to examine whether the opinion-policy link varies with some of the political institutions that differentiate the political systems found across Europe. It is widely believed that political institutions can fundamentally affect the quality of democratic governance. Yet, in many cases opposing theoretical expectations exist about the nature and direction of an institution's influence. For instance, electoral systems with proportional representation (PR) rules are more likely to produce multi-party governments, which can make

legislating in line with public opinion difficult (Wlezien and Soroka 2012; Jones, Larsen-Price and Wilkerson 2009; Coman 2015). At the same time, governments in majoritarian systems might not always be incentivized to look out for the median voter either (Persson and Tabellini 2004; Hobolt and Klemmensen 2008; Milesi-Ferretti, Perotti and Rostagno 2002).

Similarly, the horizontal separation of powers embodied in institutions like bicameralism or rules allocating considerable discretion to the executive vis-à-vis the parliament may influence the opinion-policy nexus in contingent ways, which do not make them generally better or worse at producing a strong link between opinion and policy. On the one hand, veto players can act as safeguards to protect the public from policies that only serve a minority (Wlezien and Soroka 2012). On the other hand, they can also prevent governments from enacting policies that are congruent with public opinion (Tsebelis 1995; Hobolt and Klemmensen 2008). Hence, the provisional conclusion that emerges from the theoretical predictions of the existing literature as well as the empirical findings is that institutions can steer policy simultaneously towards and away from public opinion. Therefore, rather than arguing that specific institutions affect congruence in a single direction, we suggest that countries with different institutional set-ups may exhibit little to no net systematic differences in the strength of the relationship and congruence between opinion and policy. The exception is the vertical separation of powers through multi-level government in federalist systems and EU member states, where a lower clarity of responsibility might lead to public opinion being less well reflected in policy (Wlezien and Soroka 2012).

Our sample of 31 countries features significant variation along this set of institutional dimensions, while the 20 policy issues are of differing salience and from various policy types and areas. This allows us to test the potential impact of institutions on a diverse set of issues, extending previous research examining the association between institutions and the opinion-policy link among a small number of countries (Hobolt and Klemmensen 2008), among many countries but with respect to overall public spending (Wlezien and Soroka 2012), or at the subnational level (Lax and Phillips 2012).

We find a strong and statistically significant positive relationship between public support for a policy and the likelihood that the policy is in place. Moreover, in two-thirds of the cases, we observe that policy is congruent with the opinion of the majority of citizens. Thus, the opinion-policy link and level of congruence observed in the European countries are not perfect, yet relatively high compared to the US states (cf. Lax and Phillips 2012). At the same time, we find no association between the two aspects of the opinion-policy linkage that we

study and any of the institutional features we analyze, apart from the number of chambers in parliament. We are led to conclude that the different and often opposing ways in which electoral systems, the horizontal division of powers, and the vertical separation of powers can be expected to affect policy representation may cancel out in the aggregate. The study thus contributes with new empirical insights to the debate on the impact of political institutions on the opinion-policy linkage and the quality of democracy more generally.

THE OPINION-POLICY NEXUS

Due to the centrality of the link between public opinion and policy to the core concept of representative democracy, a range of studies have used multiple approaches and data sources to examine it. They have investigated how closely public opinion matches different indicators of public policy such as the degree of policy liberalism, government agendas, budgetary spending, or specific policy issues (e.g. Page and Shapiro 1983; Erikson, Wright, and McIver 1993; Wlezien 1995; Monroe 1998; Jones, Larsen-Price, and Wilkerson 2009; Lax and Phillips 2009; 2012). The vast majority of research on the opinion-policy linkage focuses on single or small numbers of countries (e.g. Burstein 2014; Lax and Phillips 2012; Monogan, Gray, and Lowery 2009; Stimson, Mackuen, and Erikson 1995; Rasmussen, Romeijn, and Toshkov 2018; Wlezien 1995; Soroka and Wlezien 2004) and often uses aggregate indicators of policy (Stimson, Mackuen, and Erikson 1995; Erikson, Mackuen, and Stimson 2002) or analyzes broader policy areas, such as labor and employment or defense (e.g. Jennings and John 2009; Wlezien 1995). Recent years have witnessed an increase in the number of studies that take a comparative approach, often investigating the role of political institutions. However, they rely on broader measures of policy than specific policy issues (e.g. Wlezien and Soroka 2012; Hobolt and Klemmensen 2008; Kang and Powell 2010) and often also focus on one policy area, such as immigration or social welfare (e.g. Eichenberg and Stoll 2003; Brooks and Manza 2006; Peters and Ensink 2014; Morales, Pilet, and Ruedin 2015).

The problem with looking at one policy area only is that we might not be able to generalize findings about the opinion-policy linkage and the impact of political institutions and other cross-country differences to other policy areas, as they may differ for different policy domains and issues of varying salience. Meanwhile, the use of broad policy categories or dimensions does not consider the possibility that citizens', and political elites', preferences over specific policies within broader policy areas are not necessarily consistent. In Golder and

Ferland's (2017) words, a "strong positive correlation between policy adoption and state ideology says little about whether implemented policies are congruent with citizens' preferences because we do not know how broad measures of state ideology should be translated into preferences for actual policies" (cf. also Burstein 2014; Lax and Phillips 2012).

Several studies overcome this problem by comparing public opinion with policy change or with existing legislation across a range of specific policy issues. This approach also allows examining how the opinion-policy linkage varies with issue characteristics. Yet, since these studies have generally been restricted to a single country (cf. Brettschneider 1996; Brooks 1987; 1990; Burstein 2014; Gilens 2012; Gilens and Page 2014; Lax and Phillips 2012; Monroe 1979; 1998; Page and Shapiro 1983; Petry and Mendelsohn 2004)ⁱ, it is difficult to assess the applicability of their findings in other contexts. In order to simultaneously achieve the aims of making observations that are – to a certain extent – generalizable across both countries and issues and of avoiding a potential mismatch between public opinion and policy, we examine variation in the opinion-policy linkage across a *large* set of *specific* policy issues and a *high* number of national contexts.

We focus on two aspects of the opinion-policy linkage: the *relationship* between public opinion and policy and *congruence* between them. The former refers to the idea that changes in public opinion should be reflected in corresponding changes in policy. This relationship is often understood in a dynamic way, with policy being responsive to changes in public opinion (Achen 1978). Yet, it is equally possible that a high correlation between opinion and policy exists because citizens have adapted their preferences to information and arguments provided to them by political elites (Esaiasson and Holmberg 1996; Holmberg 2011). This conceptual understanding is reflected in our methodological design: By examining the relationship between public opinion and policy measured at the same point in time across countries, we allow the causality between public opinion and policy to flow in both directions. In addition to the relationship between opinion and policy, we study congruence, which indicates whether the policy in place has the support of a majority of the population. Both aspects of policy representation capture important normative intuitions about the concept, are empirically distinct (Achen 1978), and need to be analyzed separately (Lax and Phillips 2012).ⁱⁱ

The impact of political institutions

In addition to assessing the link between opinion and policy in Europe, we are interested in the extent to which, and why, it varies across countries. Political institutions are amongst the most prominent factors hypothesized to affect the opinion-policy linkage. The main institutional characteristics assumed to play a role in existing studies are electoral systems and the horizontal and vertical separation of powers in the country (Wlezien and Soroka 2012). While several studies have examined the effects of these institutions, they often conduct an analysis of policy responsiveness over time for a set of broader policy areas and in a limited number of countries (Hobolt and Klemmensen 2008; Soroka and Wlezien 2010; see also Wlezien and Soroka 2012 and Kang and Powell 2010 who cover many countries but only one dimension of public spending). In addition, several of the studies interested in assessing the impact of electoral institutions focus on left-right congruence between citizens and governments rather than the link between public opinion and policy output (e.g. Blais and Bodet 2006; Ferland 2016; Golder and Stramski 2010; Golder and Lloyd 2014; Powell 2009). The expectations and findings of these previous studies vary quite substantially, which is partly due to the different ways in which they conceptualize and measure representation. We adapt the expectations about the effects of institutions on representation to the opinion-policy link across a set of concrete policy issues in a cross-national design.

Electoral systems

The impact of electoral institutions on representation has been examined by looking at both ideological congruence and policy responsiveness. In the past, it was widely believed that proportional representation (PR) systems generate a better match between public opinion and policy than majoritarian or plurality systems. After all, the system was designed with the aim of achieving a high level of vote-seat proportionality and, hence, guarantee the representation of as many views in society as possible (Lijphart 1984). Yet, while earlier studies provided support for this expectation (see Huber and Powell 1994; Powell 2000, 2006; McDonald, Mendes and Budge 2004), there is now widespread agreement that, through different mechanisms and if certain conditions are met, PR and majoritarian systems generate governments that represent citizens similarly well (Blais and Bodet 2006; Ferland 2016; Golder and Stramski 2010; Golder and Lloyd 2014; Powell 2009; see also Golder and Ferland 2017). However, this literature conceptualizes and measures representation in terms of congruence

between the left-right positions of citizens and the government rather than between citizens' policy preferences and policy output (cf. Kang and Powell 2010), which may be understood as coming later in the 'chain' of representation. While the ideological orientation of the government might be a powerful predictor of legislation, there are additional mechanisms through which electoral system characteristics may influence both the ability and the willingness of governments to change or maintain policy in line with the wishes of the public (cf. Coman 2015; Golder and Ferland 2017).

An important factor are the policy-making dynamics of multi-party governments, which are more likely to emerge in PR systems where higher numbers of parties tend to enter parliament. Government coalitions require compromise (Müller and Strøm 2000). In such systems, it can be difficult to reach agreements and implement policy that would improve the representation of the public majority but hurt the constituencies of some coalition partners (Wlezien and Soroka 2012, 2015). In the words of Jones and colleagues (2009), coalition governments increase the 'institutional friction' that hinders policy change. Coman (2015) illustrates these dynamics with the example of spending cuts that are desired by the overall public but whose burden none of the coalition partners wants their constituencies to bear. But the issue also pertains to other types of policy where the government parties disagree and use their veto powers (Tsebelis 1995).

What is more, single-party governments have a higher clarity of responsibility than multi-party governments (Fisher and Hobolt 2010; Powell and Whitten 1993). If citizens can more easily determine which party is to praise or blame for a policy or its absence, and reward or punish it at the next election, government parties have a stronger incentive to bring policy in line with public opinion by adjusting legislation or by convincing the public of their policies. As a result, one might expect policy to reflect public opinion better under majoritarian than PR rules, even if governments represent the median voter equally well in both systems (Coman 2015; Golder and Ferland 2017). Support for such a prediction can for example be found in Wlezien and Soroka's work (2012), which demonstrates that electoral system proportionality has the potential to decrease the link between spending preferences and actual spending.

Yet, there are also factors that might weaken the opinion-policy link in majoritarian systems. Since in single-member district (SMD) systems seat shares are increased by winning pluralities in additional districts rather than gaining additional votes in 'safe seats', parties looking for re-election often have an incentive to please voters in a few pivotal districts rather than the nation-wide median voter (Persson and Tabellini 2004; Hobolt and Klemmensen

2008). There is also evidence that SMD systems incentivize politicians to cultivate a personal rather than a party vote, resulting in representatives' catering to the more narrow interest of their districts rather than those of the national public (Milesi-Ferretti, Perotti and Rostagno 2002).ⁱⁱⁱ In line with such a view, Hobolt and Klemmensen (2005) found that the government's policy intensions were less responsive to public opinion in the British plurality system than in the Danish proportional system.

We are thus faced with different and partly opposing arguments for why majoritarian or PR systems might foster stronger opinion-policy linkages, and it is not entirely clear which side assembles more powerful mechanisms. This leaves the option that, in the aggregate, we may find no net differences in the strength of the opinion-policy linkage between the different electoral systems.

Horizontal division of powers

Similar counteracting pressures are likely to exist with regard to the horizontal division of powers between executive and legislative. It may be easier to adopt policy that reflects public opinion in systems where the legislature is more powerful. Legislatures in parliamentary systems face fewer constraints when passing laws desired by the public than those in (semi-)presidential systems, in which checks and balances are generally stronger (Tsebelis 1995). Using a similar argument, Jones, Larsen-Price and Wilkerson (2009) posit that the requirement that laws enjoy the support of both president and parliament may be another source of friction hampering the adoption of policy. Particularly – though not exclusively – in cases where the presidency and the parliament are controlled by different parties, presidential and semi-presidential systems can experience gridlock (Monroe 1998). In fact, even parliamentary systems display variation in the division of powers between legislative and executive (as a result of, for instance, differences in the government's ability to influence the legislative agenda and the degree of parliamentary scrutiny), which may lead to differences in the opinion-policy link.

However, a strong horizontal division of powers may not only affect the opinion-policy linkage in a negative manner. Similarly to veto players within government coalitions, requirements to obtain executive-legislative agreement can also block policy changes that are not desired by the public and thereby positively affect the opinion-policy linkage (cf. Hobolt and Klemmensen 2008). For example, Wlezien and Soroka (2012) find that weaker executive

discretion strengthens the link between the public's spending preferences and actual spending. Hobolt and Klemmensen (2008) provide a similar explanation for their finding of high responsiveness in the US. Whether a stronger horizontal division of power weakens or strengthens the opinion-policy link in a specific case thus likely depends on whether the public desires a policy change or the status quo. With such counteracting pressures, there might thus be no net effect of the horizontal distribution of power on the opinion-policy linkage.

A similar argument applies to bicameral and unicameral systems: an upper chamber with (strong) veto powers can generate 'friction' and thwart policy change that is in the interest of the public (Jones et al. 2009), but it can also prevent unpopular decisions — especially if the two chambers are controlled by different parties (Tsebelis 1995). Again, whether a more extensive division of powers is beneficial for stimulating a strong linkage between opinion and policy is thus contingent on situational factors, providing the possibility that we find no net differences in the strength of the opinion-policy link between the different systems.

Vertical division of powers

In complex systems of multilevel governance it should be more difficult for voters to assign responsibility for policy, as it is often unclear which government level deals with a particular issue (see also Jones, Larsen-Price and Wilkerson 2009). This lowers the pressure on governments to respond to the public's wishes as they are less likely to be punished for it (Soroka and Wlezien 2004; Wlezien and Soroka 2012). The opinion-policy link at the national level might thus be weaker in countries with federal systems. Similarly, the representation of public opinion in national policy that is not affected by EU legislation is likely to be lower in countries that are members of the EU, since the division of competences between the EU and the national level is not always clear-cut. The blurring of responsibilities may thus act as a strain on responsiveness not only in EU policy-making itself (Alexandrova, Rasmussen and Toshkov 2016) but also in the spheres of national policy-making analyzed here. As a result, it can be expected that the opinion-policy linkage is weaker in countries which have a federal as opposed to a unitary system and in countries that are members of the EU.

DATA AND METHOD

In order to investigate the link between public opinion and policy, we collected public opinion data and mapped policy for 20 policy issues in 31 European countries. iv Our unit of analysis is

a policy in a country. Since we aimed at analyzing the same policy issues across countries, we systematically screened a set of cross-national public opinion surveys conducted among representative samples in at least fifteen European countries, such as the Eurobarometer, European Social Survey, and European Election Study, to single out questions about respondents' preferences concerning specific policy issues. We selected 20 items in the period between 1998 and 2013 which cover a broad range of different policy areas, including, among others, economic, health, defense, and retirement policy, and which met our selection criteria. These criteria included, among others, that an item referred to a specific policy issue rather than a broad policy area (e.g. smoking bans in bars and pubs rather than health policy; military involvement in Afghanistan rather than defense policy) with national competence, that the response scale indicated respondents' agreement or disagreement, and that it was possible to determine whether the policy was in place when the survey was conducted (i.e., questions asking about preferences for future changes in policy were excluded). The 20 policy issues together with the year, the survey, and the number of countries in which the item was asked are listed in the Appendix.

Although the set of policies covers a diverse range of policy areas, it does not constitute a random sample from the universe of policy issues. This universe is extremely difficult to define, and so far Burstein's (2014) is the only study of public opinion and policy that attempts it. Yet, while Burstein's interpretation of the set of all bills introduced in Congress as the universe of potential policies may be valid in the US, it is not easily transferrable to the European context. In many European countries, governments have traditionally initiated the majority of laws and these proposals often have a high chance of being adopted (Andeweg and Nijzink 1995). Thus, information about potential policies with low chances of adoption is difficult to acquire. Furthermore, it would be virtually impossible to obtain public opinion data on a randomly selected sample of policy issues for a large number of countries. Selecting policy issues based on their availability in surveys is thus the best viable method for the moment for a cross-national study as ours.

While there is certainly a risk that the results obtained on the basis of our sample cannot be generalized to other policy issues, this risk should be relatively low for several reasons. First, the issues cover a range of policy areas. Second, they vary strongly in salience, which has been shown to be an important predictors of the opinion-policy link (Lax and Phillips 2012; Monroe 1998; Page and Shapiro 1983). Third, it is unlikely that the sample is biased due to an underlying logic that guides the inclusion of survey items in the surveys, as we rely on many

different surveys. Moreover, this point is more relevant with respect to national surveys, where the selection of questions may be driven by current policy debates. While this may be the case for some of our policies, for instance military involvement in Afghanistan, it is unlikely to be the case for many of them.^{vi}

Measuring policy and public opinion

After selecting the policy issues, we mapped the state of public policy in the countries included at the time when the survey was conducted. Information was obtained from relevant documents issued by government agencies, international organizations, non-governmental organizations, news outlets, and academics. We first coded the policy status for each issue into a unique ordinal scale with the number of levels reflecting the potential variation in policy. These scales were then transformed into a harmonized scale with three levels, where 0 indicates that the policy was not in place, 1 that it was partly in place, and 2 that it was in place. As an example, the scale for the smoking ban in bars and pubs reflects the differences in smoking regulation across Europe: 0=no ban, 1=partial ban with many or some exceptions (e.g. for small premises or smoking rooms), and 2=complete ban.

This ordinal measure of policy is used as the dependent variable in the analysis of the *relationship* between degrees of policy and public support. To analyze whether an increase in public support for a policy is related to a higher probability of the policy being in place, the policy measure is regressed on a variable that indicates the proportion of respondents in a country who were in favor of the policy amongst those who indicated a preference in favor or against it. In order to test the hypothesized effects on the relationship between public opinion and policy, we interact public opinion with the respective variable.

In a second step, we investigate opinion-policy *congruence*. This is operationalized as a dummy variable indicating whether policy was in line with the preferences of the majority of the citizens who expressed an opinion. In order to construct this variable, the original ordinal policy scales were collapsed into two categories: 'policy in place' or 'no policy in place'. The policies coded as 'partly in place' were recoded as either 'in place' or 'not in place' depending on the particular issue, as shown in Online Appendix B, which provides information on the original scales and their transformation into the three-level and binary measures. The resulting congruence variable is dichotomous and takes the value 1 if (a) the policy is in place and the majority of the public is in favor or (b) the policy is not in place and the majority of the public

is against it. Descriptive information about policy, public opinion, and congruence can be found in Online Appendix C.

Independent variables

The independent variables in our study are a range of indicators of the political institutions whose effects we seek to analyze. In line with Wlezien and Soroka (2012), we measure the proportionality of the electoral system by using the effective number of parliamentary parties (ENPP), developed by Golder (2010) and extended by Bormann and Golder (2013). We use the value from the last national election that took place prior to the year in which the public opinion data was collected. Next, we use two alternative measures of the executive-legislative balance. The first is a set of three regime type dummies indicating whether a country has a presidential, semi-presidential or parliamentary system (Cheibub, Gandhi and Vreeland 2010). We also use a more nuanced index of the legislature's influence over the executive, drawn from the Parliamentary Powers Index (Fish and Kroenig 2009). Its components are seven dimensions of the national legislature's power, for instance whether it can by itself impeach the president or replace the prime minister. It ranges from 0 to 9, with higher values indicating stronger influence. Our third measure of the horizontal division of powers is a dummy indicating whether a legislature is unicameral or has two chambers.

Finally, we measure the vertical division of powers with two variables: the first indicates whether a country was a member of the European Union when public opinion and policy were measured and the second whether the country was unitary or federal or had a hybrid structure, in which some central government powers were delegated to the regional level. The sources of all variables and each country's values are listed in the Online Appendix D.

Moreover, we control for the media salience of an issue, since the existing literature provides evidence that it strengthens the link between opinion and policy (e.g. Lax and Phillips 2012). If a policy issue is salient in the public debate, and particularly in the news media, the public will have access to more information in order to form policy preferences. In turn, political decision-makers will receive more information about public opinion on salient issues on which they can base their decisions. The heightened visibility of and public attentiveness to policy-makers' (in-)actions on these issues may also increase the pressure on them to be responsive or to convince the public of their policies (cf. e.g. Page and Shapiro 1983). We measure media salience through the relative number of articles in the *Financial Times*'s

coverage of Europe devoted to the policy issue over a three-year period, ending in the year in which the survey was conducted. Since most issues have very few articles devoted to them while a few were extremely salient (especially nuclear energy), we use the natural logarithm of the measure. The *Financial Times* certainly does not pay equal attention to the public and political debates in all European countries. However, in light of the difficulty of collecting data on the salience of the specific policy issues within each country, we believe that it constitutes a sufficiently valid proxy of the relative salience of the policy issues across countries. In addition, it can be argued that even if it were possible to measure media coverage of all 20 issues in the 31 European countries, such a measure would be endogenous to policy adoption, as issues would be more salient where they were on the government agenda (Lax and Phillips 2012).^x

We nevertheless construct an alternative measure to test the robustness of the results. This is an indicator of public rather than media salience and based on respondents' answers to the 'most important problem' (MIP) question posed by the European Election Study in each country. This measure is problematic, however, in that it links the specific policy issues in our sample to the very broad policy areas into which the responses are categorized. It is thus not a good indicator of the salience of the specific policy issue (e.g. respondents might consider the environment to be an important issue but not specifically whether plastic waste should be banned from landfills). Moreover, it does not indicate the degree of information transmission between the public and policy-makers through the media, which is a crucial aspect of the causal mechanisms we proposed. We therefore use the media salience indicator in the models reported but provide details about the construction of the MIP measure and estimates of the models in the Online Appendix F.

In the congruence models, we furthermore include a measure of the size of the opinion majority, whether in favor or against the policy (Lax and Phillips 2012). It accounts for the expectation that policy is the more likely to be line with the majority of the public the larger the majority. Lastly, we include the year in which public opinion and policy are measured in order to control for a potential time trend in the opinion-policy link as well as the fact that the more recent surveys tend to include more Central and Eastern European countries. All interval independent variables are grand-mean centered.

RESULTS

The relationship between opinion and policy in Europe

Our cases are clustered within both policy issues and countries. In order to determine whether there are dependencies between the cases within a cluster for which we should account in our models, we first estimated multilevel ordered logit regression models with policy as the dependent variable and public opinion as the only independent variable. In Model 1 (Table 1), we report the random variances of the intercept and the slope of public opinion at the level of policy issues. First of all, we find that public support for a policy is statistically significantly associated with the probability of the policy being in place. Secondly, this relationship varies systematically across policy issues, as the random slope variance suggests. Figure 1 illustrates this variation by showing the predicted coefficients of public opinion on policy for each issue when we allow the slope for public opinion to vary between issues. On some issues, including 'military in Afghanistan' and 'adoption by same-sex couples', policy is clearly more strongly related to public opinion than on other issues, such as 'ban on plastic waste in landfills', where the relationship is in fact negative. We obtain a significant likelihood-ratio test comparing the model to an ordered logit regression without the random intercept and slope, which shows that the multilevel model with issues at the higher level has a significantly better fit.

[TABLE 1 AROUND HERE]

[FIGURE 1 AROUND HERE]

In Model 2, we estimate the equivalent model with countries at the higher level and find that the slope variance is close to zero when we allow the relationship between public opinion and policy to vary between countries. This means that, as Figure 2 shows, the predicted coefficients of public opinion on policy are very similar across countries. The likelihood-ratio test comparing Model 2 to the equivalent model without the random variance components is insignificant.^{xii} In substantive terms, this means that there seems to be very little variation in the strength of the opinion-policy linkage across countries.^{xiii}

[FIGURE 2 AROUND HERE]

Despite this observation, we might find that the opinion-policy relationship varies with political institutions when we control for the other institutions. In Model 3, we test this by including interaction terms of each institutional indicator with the public opinion variable. We find that none of the institutions influences the relationship between public opinion and policy. This holds even when only including one indicator at a time (not shown). Only the control

measure for the year significantly interacts with public opinion, suggesting that the opinion-policy link has become weaker over time. This might, however, be due to the expansion of the country sample. Model 4 is equivalent to Model 3 but includes the measure of the legislature's influence instead of the regime type dummies. This variable does not seem to influence the relationship between opinion and policy either. As a robustness check we estimated a set of models equivalent to those in Table 1 but with a binary measure of policy (the one used to construct the congruence measure) and a multi-level logit specification. The results do not substantially differ except that the interaction term between public opinion and media salience is positive and significant at p<.05.

Explaining public opinion-policy congruence in Europe

While it is reassuring that the likelihood of having a particular policy rises with public support, this is not a sufficient standard for policy to reflect the views of the citizens. We therefore examine to what extent existing policy is in line with the preferences of the majority and whether political institutions influence it. We find that in the majority (63%) of cases, legislation is in line with the opinion of the majority of citizens (Table 2). A comparable study by Lax and Philips (2012) on the US states found congruence only about half of the time. While Table 2 shows that congruence varies across countries (from 41% of issues in Norway to 100% in Iceland, which is however an outlier and for which we have information on only a small number of issues), the differences across issues are again more striking: in only 7% of countries is the law on warnings on alcohol bottles directed at drivers and pregnant women congruent with public opinion, whereas congruence exists in 100% of the countries for military involvement in Afghanistan. Figure 3 underlines that there are no clear patterns in congruence with regard to the different regions in Europe.

[TABLE 2 AROUND HERE]

[FIGURE 3 AROUND HERE]

This observation is confirmed by the results of multi-level logistic regression analyses with random intercepts at the levels of issues and countries, respectively (Table 3). While a substantial degree of variation in congruence can be accounted for by policy issues (Model 5), a negligible share of it is related to countries (Model 6), mirroring our findings in the analysis of the opinion-policy relationship. Thus, even though there is clearly some degree of variation in congruence across countries, as Table 2 shows, it does not appear to be systematic. It would

therefore appear that countries' institutional configuration have no net impact on whether policy corresponds with the majority opinion. However, in order to test whether individual political institutions affect it we again need to control for the others.

[TABLE 3 AROUND HERE]

As Models 7 and 8 show, none of them do except one: countries with a bicameral system have a lower likelihood of opinion-policy congruence than countries with only one legislative chamber. This finding suggests that the checks and balances present in bicameral systems might make it more difficult for governments to provide the policies that the public wants. The average predicted probability of congruence (based on Model 8), with the covariates at their observed levels, is 69 per cent in unicameral systems, whereas it is only 57 per cent in bicameral systems. We also find that policy is more likely to reflect the opinion of the majority of the public the larger the majority; this corresponds with the finding that the likelihood of policy being implemented (not implemented) is correlated with the degree of support in favor of (against) it. Lastly, congruence is more likely the more salient a policy issue is in the news media. xvi

CONCLUSION

Whereas the quality of democratic governance in Europe and elsewhere has been subject to much criticism, our study finds a positive, large, and statistically significant association between public opinion and policy on a range of issues across the European continent. Moreover, in close to two-thirds of all cases policy is congruent with the majority opinion. Even though democratic politics is about more than the extent to which policies on specific issues reflect the wishes of the public, these results offer reassurance regarding the state of democratic governance in Europe. They indicate that the political institutions and practices in place are able to ensure, one way or another, that public opinion and policy do not deviate too much and too often from one another.

Importantly, we do not find systematic variation across the 31 countries we study in the extent to which policy is correlated with public preferences or in the likelihood of congruence between opinion and policy. In contrast, we find significant differences in policy representation across the 20 policy issues that we study, which are only partly accounted for by the differences in overall media salience between the issues. The low country-level variation in the opinion-policy link is intriguing because our sample of countries features both established and relatively

young democracies from all corners of the European continent – from Norway to Portugal and from Ireland to Bulgaria. These countries display a lot of variation in terms of political institutions, which are often assumed to have important effects on the opinion-policy link. Yet, apart from a relationship between the number of legislative chambers and congruence between policy and the majority opinion, we did not find evidence that institutions condition the opinion-policy linkage.

While there is increasing agreement that different electoral rules can generate high levels of left-right congruence between the government and the citizens (Golder and Lloyd 2014; Blais and Bodet 2006; Ferland 2016; Powell 2009), our results suggest that the policies in place also reflect public opinion to similar degrees in more and less proportional electoral systems. It thus appears that the factors that might obstruct responsive policy-making in PR systems, such as the need to bargain, veto points, and a low clarity of responsibility in multiparty governments, are balanced out by incentives to cater to specific constituencies rather than the median voter and other potential factors in majoritarian systems.

Moreover, in systems where the legislature has more power over the executive, this presence of a veto player might hinder policy change that responds to public opinion, but at the same time it can prevent unpopular policies. Whether the public prefers policy change or the status quo might thus be decisive, and on the aggregate these dynamics might cancel out. Surprisingly, even the vertical division of powers does not appear to affect the opinion-policy linkage, although we expected that governments in countries with multi-level structures and hence a lower clarity of responsibility would have lower incentives to bring policy and public opinion in line. We thus conclude that policy may be in line with public opinion in a variety of different institutional contexts. Yet, this certainly does not mean that the quality of democracy does not vary across Europe. Even though correspondence between public opinion and policy is an important aspect of representative democracy, it is not *sufficient* if the procedural aspects of the democratic political process are not respected.

Our results indicate that *at any given point of time* there might be no net differences in the aggregate opinion-policy linkage and congruence between countries with different institutions. Hence, while the institutions might have various well-defined *effects*, the results of their operation might not be different, *on average*, in the sample of countries that we have. It should also be acknowledged that institutions that produce year-to-year relationships between opinion and policy are not necessarily the same as institutions that co-occur with concurrent opinion-policy correspondence analyzed in this study. Future research should

therefore investigate the causes of the differences in opinion-policy linkage between issues as well as the patterns and relationships we observed in more detail, e.g. by analyzing whether and how institutions and issue characteristics influence the different causal links between opinion and policy. Longitudinal research designs and in-depth case studies searching for direct evidence of policy-makers listening to the public and the public adjusting its preferences to policy have great potential to address such questions. Importantly, such work could also consider whether not only individual institutions but also specific configurations of institutions affect the linkage between opinion and policy.

Moreover, it should be recognized that, beyond the difficulty of measuring comparative institutions, it is possible that the mechanisms through which institutional and issue characteristics influence this linkage vary between subsets of countries and issues. For instance, in countries where an institution has become consolidated and exerted its effects over many years, its potential to link opinion and policy might be different than in newly established democracies or countries where institutional changes took place recently. The fact that our sample is inclusive in terms of both issues and countries might also partly explain why our findings differ from those of some previous studies. Wlezien and Soroka (2012), for instance, who find effects of electoral system proportionality and executive power, include a smaller number of postcommunist countries. It is also possible that because we look further down the policy-making process than, for example, work that looks at agenda responsiveness, more institutional mechanisms may come into play and neutralize each other. Future research aiming at disentangling the potential countervailing effects of institutions should take such contingencies into consideration.

¹ Brooks (1985) is an exception to this pattern and includes information about opinion and policy on specific issues in three countries.

ⁱⁱ Online Appendix A illustrates that the degree to which a change in public support for a policy is associated with a change in the likelihood of the policy being in place is not linearly related to congruence between opinion and policy.

iii It should be noted, however, that other electoral system characteristics than the degree of proportionality, such as intra-party competition, also play important roles here (see e.g. Carey and Shugart 1995; Golden 2003; Hicken and Simmons 2008).

iv Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Norway, Poland, Portugal,

Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, the Netherlands, and the United Kingdom. For some policy issues, we only have data for a subset of these countries.

- Yeurther details about the selection and coding of policy items can be obtained upon request from the authors.
- vi For the variety of ways through which questions make it into the Eurobarometer surveys, see Haverland, de Ruiter and van de Walle (2018).
- vii Respondents who responded "don't know" or indicated neither a preference for nor against the policy were excluded, since including them when calculating the proportion is equivalent to inappropriately including them in the proportion that is against the policy. The average proportion of respondents in these categories is below 10 per cent.
- viii The effective number of parties provides a more fine-grained measure of the proportionality of electoral systems than a binary or ordinal categorizations. However, we also estimated the models with a dummy variable indicating whether the main system used for lower house elections is based on plurality or PR rules, with the Gallagher Index, which measures the vote-seat disproportionality, and with the average district magnitude. The results are reported in the Online Appendix E and do not substantially differ.
- ix Note that in our European sample, there is no strong presidential system like the USA, with the possible exception of Cyprus. Cheibub, Gandhi and Vreeland (2010) classify Switzerland as a presidential system because the executive cannot be removed by the legislature through a vote of no confidence. However, since its executive is not popularly elected but emerges from its legislature, Switzerland is often not considered a presidential system (e.g. Samuels and Shugart 2010). This issue is accounted for through the measure of the legislature's influence over the executive. Moreover, when estimating the models without Switzerland, the coefficients of the regime type measure remain statistically insignificant.
- ^x We also use an alternative indicator based on the *Financial Times* data which uses the ranking of the issues based on their salience. It is strongly correlated with the measure used in the analysis (Pearson's r=.98, p<.0005) and yields almost identical estimates.
- xi Ordered logit models rest on the assumption that the regression lines for the different outcomes are parallel. While we cannot test this assumption within the multi-level framework, we estimated a single-level ordered logit model equivalent to Models 1 and 2 and conducted a Brant Test, which indicated that the parallel lines assumption is not violated.
- xii Due to lack of variation between countries we do not present a cross-classified model with random intercepts for both policy issues and countries. A robustness check with such a model yields findings in line with those presented.
- xiii Since our sample has more countries than issues, we checked whether this might account for the fact that we find greater variation across issues than across countries. We sampled 20 countries randomly from the full set of observations, re-estimated the models, and repeated the process 50 times. In only a negligible fraction of these models, cross-country variation was found significant, while cross-issue variation remained so. This implies that our results are not driven by the different numbers of issues and countries in our data.
- xiv The statistically insignificant interaction terms indicate that the relationship between public opinion and policy does not significantly differ between different values on the institution variables. However, it might nevertheless

be the case that the relationship is statistically significantly different from zero at some but not other values of the institution variables. We plot the average marginal effects of opinion on policy along the range of each institution measure in Online Appendix G. The relationship remains statistically significant and at similar levels throughout, except at very high values of the Gallagher Index and in presidential systems, where the coefficients are smaller and statistically insignificant, whereby the latter appears to be due to low numbers of observations.

^{xv} The mixed-effect models presented here exploit the between-country variation in institutions present in our dataset. We also estimated equivalent models with country fixed effects displayed in the Online Appendix H, which also indicate that the opinion-policy relationship does not vary with institutional differences.

than an ordinal measure of policy as the dependent variable. That we find different effects of salience in Tables 1 and 3 should not surprise us since even though 'congruence with majority opinion' and 'the relationship between opinion and policy' are related concepts they measure different elements of the opinion-policy linkage (cf. Online Appendix A). The estimates of models using the alternative electoral system measures are provided in Online Appendix E. We also estimated a logistic regression model with country fixed effects, which includes the institutions with within-country variation from Models 7 and 8, namely ENPP and EU membership (Online Appendix H). Here, congruence increases significantly with EU membership. The results of the congruence analysis in Table 3 and in the Online Appendix E are robust to excluding the opinion majority measure, which could be relevant if certain institutional set-ups were more conducive to larger opinion majorities (see Online Appendix J). The results also hold when only one predictor at a time is included (not shown).

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TABLES AND FIGURES

Table 1. Effects on the relationship between public opinion and policy

	Model			
	1	2	3	4
Public opinion (PO)	4.91 (1.81)**	2.62 (.42)***	5.51 (2.67)*	4.18 (2.64)
Electoral system measure (ENPP)			11 (.08)	08 (.09)
PO * ENPP			.26 (.46)	.32 (.47)
Regime type				
(reference=parliamentary)				
Semi-presidential			.23 (.24)	
Presidential			04 (.55)	
PO * semi-presidential			-1.03 (1.20)	
PO * presidential			-2.48 (2.36)	
Legislature's influence				12 (.07)
PO * legislature's influence				00 (.34)
Bicameralism			.05 (.26)	.18 (.26)
PO * bicameralism			41 (1.35)	26 (1.38)
Federalism (reference=unitary)				
Hybrid			.36 (.33)	.40 (.33)
Federal			.02 (.36)	02 (.35)
PO * hybrid			1.78 (1.62)	1.73 (1.61)
PO * federal			2.67 (1.81)	2.34 (1.78)
EU member			.10 (.43)	.15 (.44)
PO * EU member			.58 (2.11)	1.85 (2.18)
Salience			.43 (.22)	.47 (.22)*
PO * salience			1.65 (.93)	1.35 (.89)
Year			.11 (.10)	.11 (.10)
PO * year			-1.14 (.49)*	-1.20 (.47)*
Issue intercept variance	3.30 (1.37)		2.46 (1.05)	2.37 (1.01)
Issue PO slope variance	43.98 (24.84)		32.59 (18.88)	27.19 (17.59)
Country intercept variance		.93 (.00)		
Country PO slope variance		.01 (.00)		
Intercept-slope covariance	4.25 (4.29)	.08 (.00)	3.29 (3.47)	4.01 (3.27)
Deviance	770	1035	745	688
N level 1 (level 2)	491 (20)	491 (31)	491 (20)	457 (20)

^{*} p<.05, ** p<.01, *** p<.0005.

 Table 2. Congruence by country and policy issue

Country	Congruence in % (no. of	Issue	Congruence in % (no. of
Country	issues)	Issue	countries)
Iceland	100 (4)	Military involvement in Afghanistan	100 (15)
Portugal	85 (20)	Progressive income tax	94 (16)
Estonia	77 (13)	Nation-wide minimum wage	89 (27)
Romania	77 (13)	State support for caregivers	86 (28)
France	75 (20)	Embryonic stem cell research	81 (31)
Sweden	75 (20)	Nuclear power	81 (27)
Austria	74 (19)	Adoption of children by same-sex couples	77 (31)
Greece	71 (17)	Banning of tobacco sale through vending machines	74 (27)
Hungary	71 (17)	Abortion	74 (27)
Malta	69 (13)	Smoking bans in bars and pubs	68 (28)
Netherlands	68 (19)	Same-sex marriage	63 (27)
Slovakia	67 (15)	Detaining terrorist suspects without charge	56 (18)
Cyprus	64 (14)	Right to earn an income while receiving a pension	56 (16)
Denmark	63 (19)	Mandatory retirement age	53 (30)
Finland	63 (19)	Experiments on animals like monkeys and dogs	52 (31)
Lithuania	62 (13)	Online voting	44 (16)
Bulgaria	60 (15)	<i>Ius soli</i> (citizenship on the basis of birth in a territory)	40 (20)
Germany	60 (20)	Asylum seekers' right to work	38 (21)
Spain	60 (20)	Banning disposal of plastic waste in landfills	21 (28)
Luxembourg	59 (17)	Warnings on alcoholic drink bottles	7 (27)
Croatia	57 (7)		
Latvia	56 (16)		
Norway	55 (11)		
UK	55 (20)		
Belgium	53 (17)		
Slovenia	53 (17)		
Switzerland	50 (6)		
Czech Republic	47 (17)		
Ireland	47 (19)		
Italy	41 (17)		
Poland	41 (17)		
Total	63 (20)		63 (31)

 Table 3. Effects on public opinion-policy congruence

	Model			
	5	6	7	8
Oninion majority			3.48	3.90
Opinion majority			(1.08)**	(1.14)**
Electoral system measure (ENPP)			10 (.08)	11 (.08)
Regime type				
(reference=parliamentary)				
Semi-presidential			.34 (.24)	
Presidential			11 (.56)	
Legislature's influence				14 (.08)
Bicameralism			74 (.26)**	66 (.27)*
Federalism (reference=unitary)				
Hybrid			.36 (.34)	.32 (.33)
Federal			.62 (.36)	.58 (.35)
EU member			.53 (.41)	.81 (.43)
Salience			.49 (.14)**	.48 (.15)**
Year			09 (.07)	09 (.07)
Intercept	.63 (.28)*	.51 (.09)***	.33 (.46)	.18 (.47)
Issue intercept variance	1.31 (.55)		.95 (.42)	1.06 (.47)
Country intercept variance		(00.) 00.		
Deviance	582	650	547	505
N level 1 (level 2)	491 (20)	491 (31)	491 (20)	457 (20)

^{*} p<.05, ** p<.01, *** p<.0005.

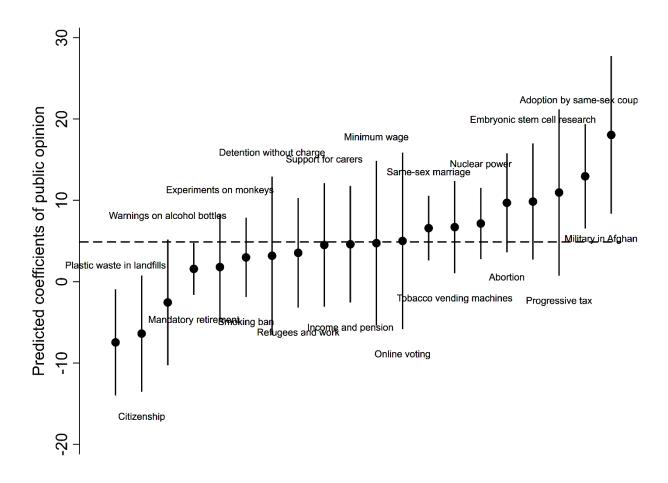


Figure 1. Predicted coefficients (log-odds) of public opinion on the policy being in place for each issue, with 95% confidence intervals

Notes: The dashed line indicates the mean coefficient across all issues. Coefficients are empirical Bayes predictions based on the coefficient of public opinion and its random slope variance in Model 1 (Table 1).

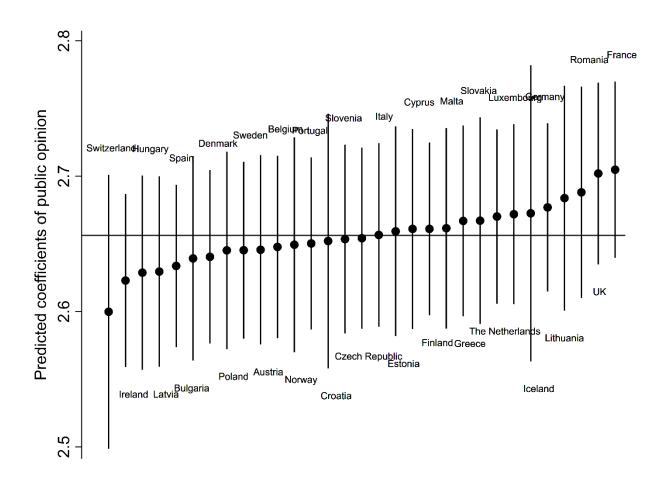


Figure 2. Predicted coefficients (log-odds) of public opinion on the policy being in place for each country, with 95% confidence intervals

Notes: The dashed line indicates the mean coefficient. Coefficients are empirical Bayes predictions based on the coefficient of public opinion and its random slope variance in Model 2 (Table 3).

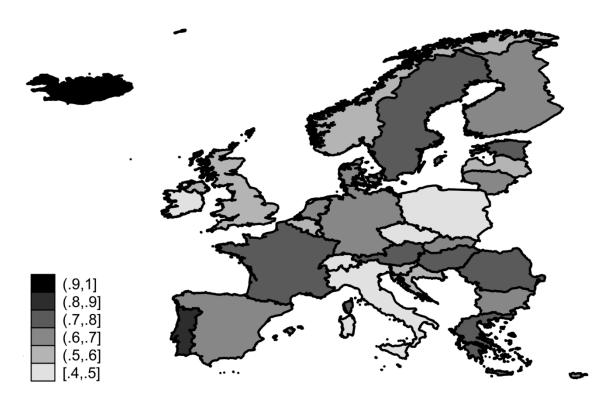


Figure 3. Congruence levels across Europe

Notes: Darker shades indicate higher opinion-policy congruence (cf. Table 2). The mean level is 63% (Denmark and Finland), the minimum is 41% (Italy and Poland), and the maximum is 100% (Iceland).

Online Appendix of

The Opinion-Policy Nexus in Europe and the Role of Political Institutions

Anne Rasmussen, Stefanie Reher and Dimiter Toshkov

ONLINE APPENDIX A: The relationship and congruence between public opinion and public policy

We use two distinct conceptions and measures of policy representation: a) The relationship between public opinion and policy, i.e. the degree to which a change in public support for a policy is correlated with a change in the likelihood of the policy being in place, and b) congruence between the majority of the public and the policy status quo. We can have different levels of congruence for the same relationship between opinion and policy. Similarly, the relationship between opinion and policy might vary between issues with the same level of congruence. Figure A1 illustrates this with five different scenarios represented in five panels.

The two scenarios represented on the top row of Figure A1 have the same basic relationship between opinion and policy, represented by β , which is the regression coefficient for public support in a logistic regression of the presence of the policy on public support. But congruence differs: in scenario A it is 51%, while in scenario B it is 89%. Note that α is the regression coefficient for the intercept in the same logistic regression of policy on public support. The locations of the observations are indicated as 'rugs' at the top and bottom of each plot.

The three scenarios depicted at the bottom row of Figure A1 have the same level of congruence (88%), but different relationships between opinion and policy. In scenario C, the regression coefficient β is 8, while in scenarios D and E it is 13. Furthermore, scenarios D and E have the same level of congruence and the same β , but differ in the estimates of the intercept, α .

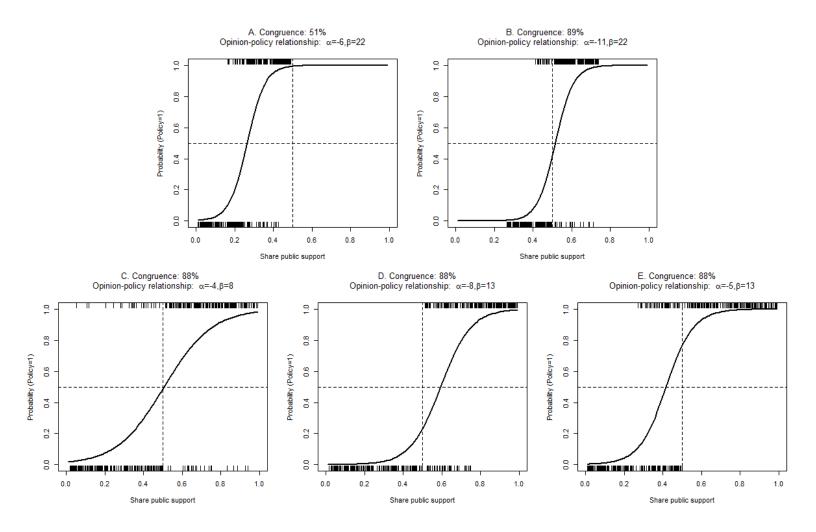


Figure A1. Congruence and relationship between public opinion and policy under five different scenarios.

Notes: Simulated data (N=400 for each panel). Observations represented by 'rugs' at the top and bottom of each panel. α and β are the intercept and public support coefficients, respectively, of logistic regressions of the presence of policy on public opinion support, estimated from the data for each panel.

ONLINE APPENDIX B: Policy scales

Issue	Original scale	Three-point scale	Binary scale
Warnings on alcoholic drink bottles	0=no warnings 1=warnings	0=no warnings 1= - 2=warnings	0=no warnings 1=warnings
Experiments on animals like monkeys and dogs	0=ban on experiments on monkeys and dogs 1=ban on experiments on great apes and gibbons 2=ban on experiments with great apes 3=no ban	0= ban on experiments on any monkeys and dogs or great apes and gibbons 1= ban on experiments with great apes 2=no ban	0=ban on experiments on any monkeys and dogs 1=no ban
Smoking bans in bars and pubs	0=no ban 1=partial ban with many exceptions or not enforced 2=partial ban with some exceptions 3=ban, but separate smoking rooms (no exceptions for small premises) 4=complete ban	0=no ban 1=partial ban with many exceptions or not enforced, or with some exceptions, or no exceptions but separate smoking rooms 2=complete ban	0=no ban or partial ban with many exceptions or not enforced 1=partial ban with some exceptions or no exceptions but separate smoking rooms or complete ban
Banning of tobacco sale through vending machines	0=no ban 1=restrictions 2=ban	0=no ban 1=restrictions 2=ban	0=no ban or restrictions 1=ban
Embryonic stem cell research	0=no ban 1=no ban but restrictive 2=ban but allowed with imported cells 3=absolute ban	0=no ban 1=no ban but restrictive 2=ban but allowed with imported cells or absolute ban	0=no ban or no ban but restrictive 1=ban but allowed with imported cells or absolute ban
Nuclear power	0=no nuclear energy with no plans to build or phase- out plan 1=no nuclear energy with no explicit policy 2=nuclear energy and plan to continue or none but explicit plans to build	0=no nuclear energy with no plans to build or phase- out plan 1=no nuclear energy with no explicit policy 2=nuclear energy and plan to continue or none but explicit plans to build	0=no nuclear energy with no plans to build or phase-out plan or no nuclear energy with no explicit policy 1=nuclear energy and plan to continue or none but explicit plans to build
Nation-wide minimum wage	0=no minimum wage 1=industry-wide 2=national or industry-wide with coverage >90%	0=no minimum wage 1=industry-wide 2=national or industry-wide with coverage >90%	0=no minimum wage or industry-wide 1=national or industry- wide with coverage >90%
State support to care for dependent persons	0=no support 1=support	0=no support 1 = - 2=support	0=no support 1=support
Detaining terrorist suspects indefinitely	0=very short detention limit (<=3 days) 1=short detention limit (4- 10 days) 2=long detention limit (>10 days) 3=no detention limit	0=very short or short detention limit (<= 10 days) 1=long detention limit (>10 days) 2=no detention limit	0=detention limit 2=no detention limit

Same-sex marriage	0=marriage legalized 1=registered partnership 2=not legalized 3=prohibited	0=marriage legalized 1=registered partnership 2=not legalized or prohibited	0=marriage legalized 1=registered partnership or not legalized or prohibited
Adoption of children by same-sex couples	0=not allowed 1=only internal adoption 2=internal and external	0=not allowed 1=only internal adoption 2=internal and external	0=not allowed or only internal adoption 1=internal and external
Abortion	0=banned 1=only if threat to life of mother 2=only if threat to health of mother 3=for social and economic reasons 4=on request	0=banned 1=only if threat to health of mother or for social and economic reasons 2=on request	0=banned or only if threat to life or health of mother or for social and economic reasons 1=on request
Ius soli (citizenship on the basis of birth in a territory)	0=only foundlings 1=only stateless children 2=only facilitated naturalization 3=double ius soli 4=weak ius soli 5=strong ius soli 6=unconditional ius soli at birth	0=only foundlings or stateless children or facilitated naturalization 1=double or weak <i>ius soli</i> 2=strong or unconditional <i>ius soli</i> at birth	0=only foundlings or stateless children or facilitated naturalization 1=double, weak or strong or unconditional ius soli at birth
Progressive income tax	0=regressive tax 1=flat tax 2=progressive tax	0=regressive tax 1=flat tax 2=progressive tax	0=regressive or flat tax 1=progressive tax
The right to earn while receiving a pension	0=not allowed to earn 1=limit on earnings/penalty 2=unlimited earnings	0=not allowed to earn 1=limit on earnings/penalty 2=unlimited earnings	0=not allowed to earn or limit on earnings/penalty 21=unlimited earnings
Asylum seekers' right to work	0=not allowed 1=allowed under certain conditions 2=allowed	0=not allowed 1=allowed under certain conditions 2=allowed	0=not allowed or only under strong conditions 1=allowed under (weak) conditions or allowed
On-line voting	0=no 1=yes	0=no 1= - 2=yes	0=no 1=yes
Military involvement in Afghanistan	0=no 1=yes	0=no 1= - 2=yes	0=no 1=yes
Mandatory retirement age	0=none 1=none, with few exceptions (e.g. military) 2=for public servants and/or a considerable no. of professions based on collective agreements and/or employers may set one 3=yes	0=none or none with few exceptions (e.g. military) 1=for public servants and/or a considerable no. of professions based on collective agreements and/or employers may set one 3=yes	0=none or none with few exceptions (e.g. military) 1=for public servants and/or a considerable no. of professions based on collective agreements and/or employers may set one or yes
Banning the disposal of plastic waste in landfills	0=no 1=yes	0=no 1= - 2=yes	0=no 1=yes

ONLINE APPENDIX C: Descriptive information on public opinion, policy, and congruence

Table C1. Descriptive information on public opinion, policy, and congruence

Country	Values	Empirical range	Mean (std. dev.)
Public opinion	0-1	.0598	.63 (.22)
Policy	0, 1, 2	0-2	1.00 (.89)
Congruence	0, 1	0-1	.63 (.48)

Table C2. Descriptive information on public opinion, policy, and congruence by country

			Mean (standard error)				
Country	No. of issues	Public opinion	Polic	cy Co	Congruence		
Austria	19	.59 (.06)	.89 ((.23) .74	(.10)		
Belgium	17	.62 (.04)	.88 ((.22) .53	(.12)		
Bulgaria	15	.73 (.05)	1.00 ((.26) .60	(.13)		
Croatia	7	.56 (.11)	.86 ((.34) .57	(.20)		
Cyprus	14	.63 (.08)	1.00 ((.23) .64	(.13)		
Czech Republic	17	.66 (.04)	1.00 ((.21) .47	(.12)		
Denmark	19	.59 (.05)	.79 ((.20) .63	(.11)		
Estonia	13	.68 (.06)	1.08 ((.26) .77	(.12)		
Finland	19	.60 (.05)	1.05 ((.19) .63	(.11)		
France	20	.60 (.04)	1.25 ((.20) .75	(.10)		
Germany	20	.63 (.05)	1.15 ((.18) .60	(.11)		
Greece	17	.57 (.07)	.94 ((.23) .71	(.11)		
Hungary	17	.67 (.05)	.88 ((.24) .71	(.11)		
Iceland	4	.63 (.15)	1.25 ((.48) 1.00	(.00)		
Ireland	19	.65 (.05)	.79 ((.20) .47	(.12)		
Italy	17	.61 (.05)	.94 ((.22) .41	(.12)		
Latvia	16	.67 (.06)	.81 ((.23) .56	(.13)		
Lithuania	13	.69 (.07)	1.23 ((.28) .62	(.14)		
Luxembourg	17	.59 (.05)	1.06 ((.20) .59	(.12)		
Malta	13	.60 (.08)	1.00 ((.23) .69	(.13)		
Norway	11	.63 (.06)	.91 ((.28) .54	(.16)		
Poland	17	.68 (.05)	1.00 ((.24) .41	(.12)		
Portugal	20	.62 (.05)	.95 ((.20) .85	(80.)		
Romania	13	.65 (.06)	1.23 ((.26) .77	(.12)		
Slovakia	15	.69 (.05)	1.13 ((.26) .67	(.13)		
Slovenia	17	.63 (.05)	1.00 ((.23) .53	(.12)		
Spain	20	.62 (.05)	.80 ((.17) .60	(.11)		
Sweden	20	.64 (.05)	.95 ((.21) .75	(.10)		
Switzerland	6	.58 (.09)	.50 ((.34) .50	(.22)		
Netherlands	19	.64 (.05)	1.11 ((.20) .68	(.11)		
UK	20	.68 (.05)	1.35 ((.20) .55	(.11)		
Total	20	.63 (.01)	1.00 ((.04) .63	(.02)		

Table C3. Descriptive information on public opinion, policy, and congruence by issue

		Mean (standard error)					
Issue	No. of countries	Public	opinion	Pol	licy	Cong	ruence
Warnings on alcoholic drink bottles	27	.80	(.02)	.15	(.10)	.07	(.05)
Experiments on animals like monkeys and dogs	31	.56	(.02)	1.68	(.12)	.52	(.09)
Smoking bans in bars and pubs	28	.68	(.02)	.96	(.10)	.68	(.09)
Banning tobacco sale through vending machines	27	.61	(.02)	1.48	(.10)	.74	(.09)
Embryonic stem cell research	31	.44	(.02)	.58	(.14)	.81	(.07)
Nuclear power	27	.46	(.04)	1.33	(.16)	.81	(.08)
Nation-wide minimum wage	27	.69	(.01)	1.85	(.09)	.89	(.06)
State support to care for dependent persons	28	.92	(.01)	1.71	(.13)	.86	(.07)
Detaining terrorist suspects indefinitely	18	.49	(.02)	.11	(.08)	.56	(.12)
Same-sex marriage	27	.48	(.05)	1.44	(.14)	.63	(.09)
Adoption of children by same-sex couples	31	.33	(.04)	.52	(.15)	.77	(.08)
Abortion	27	.86	(.02)	1.67	(.11)	.74	(.09)
<i>Ius soli</i> (citizenship on the basis of birth in a territory)	20	.82	(.02)	.60	(.18)	.40	(.11)
Progressive income tax	16	.81	(.02)	1.88	(.13)	.94	(.06)
The right to earn while receiving a pension	16	.65	(.03)	1.00	(.26)	.56	(.13)
Asylum seekers' right to work	21	.76	(.02)	.76	(.15)	.38	(.11)
On-line voting	16	.48	(.03)	.00	(.00)	.44	(.13)
Military involvement in Afghanistan	15	.38	(.05)	.67	(.25)	1.00	(.00)
Mandatory retirement age	30	.65	(.04)	.50	(.10)	.53	(.09)
Banning disposal of plastic waste in landfills	28	.83	(.02)	.50	(.17)	.21	(.08)
Total	31	.63	(.01)	1.00	(.04)	.63	(.02)

ONLINE APPENDIX D: Values on institutional variables by country

Table D1. Country values on institutional variables

	Effective number of parliamentary parties (ENPP) _a	Regime type _b	Legislature's influence over the executive	Bicameralism _b	Federalism _b
Values	1.99 – 9.05 (observed values)	0=parliamentary, 1=semi- presidential, 2=presidential	0 (least powerful) – 9 (most powerful)	0=no bicameralism, 1=bicameralism	0=unitary, 1=hybrid, 2=federal
Source	Bormann and Golder (2013)	Cheibub, Gandhi and Vreeland (2010)	Fish and Kroenig (2009)	Johnson and Wallack (2006)	Norris (2009)
Austria	3.74	1	5	1	2
Belgium	8.22	0	8	1	2
Bulgaria	3.94	1	7	0	0
Croatia	3.14	1	7	1	0
Cyprus	3.83	2	1	0	0
Czech Republic	3.49	0	8	1	0
Denmark	5.15	0	8	0	0
Estonia	4.31	0	8	0	0
Finland	5.19	1	6	0	0
France	2.66	1	3	1	0
Germany	4.07	0	8	1	2
Greece	2.49	0	8	0	0
Hungary	2.44	0	8	0	0
Iceland	3.96	1	-	0	0
Ireland	3.17	1	8	1	0
Italy	4.08	0	8	1	1
Latvia	5.59	0	7	0	0
Lithuania	5.70	1	6	0	0
Luxembourg	3.87	0	-	0	0
Malta	2.00	0	-	0	0
Norway	4.52	0	7	0	0
Poland	3.03	1	7	1	0
Portugal	2.72	1	6	0	1
Romania	3.55	1	6	1	0
Slovakia	4.73	1	6	0	0
Slovenia	4.58	0	7	1	0
Spain	2.45	0	8	1	2
Sweden	4.29	0	7	0	0
Switzerland	5.03	2	6	1	2
Netherlands	5.49	0	7	1	1
UK	2.38	0	8	1	1

a The values indicate the average ENPP value across all observations for a country. The measure used is 'enpp1' in Bormann and Golder's dataset, which 'corrects' for the influence of independents and 'other parties' (cf. the codebook at http://mattgolder.com/elections).

b The data is taken from the Quality of Government project (http://qog.pol.gu.se/data).

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ONLINE APPENDIX E: Estimations with alternative electoral system measures

Table E1. Effects on the relationship between public opinion and policy

	PR/majoritarian system dummy	Gallagher Index	Average district magnitude
Public opinion (PO)	5.45 (2.67)*	5.85 (2.73)*	5.52 (2.66)*
Electoral system measure	.90 (.38)*	.05 (.03)	00 (.00)
PO * Electoral system measure	.50 (2.04)	08 (.17)	.01 (.02)
Regime type			
(reference=parliamentary)			
Semi-presidential	.12 (.24)	.19 (.24)	.26 (.23)
Presidential	15 (.55)	08 (.56)	08 (.55)
PO * semi-presidential	-1.16 (1.23)	-1.06 (1.22)	-1.11 (1.20)
PO * presidential	-2.25 (2.35)	-2.47 (2.37)	-2.31 (2.35)
Bicameralism	12 (.27)	05 (.27)	.10 (.26)
PO * bicameralism	43 (1.42)	23 (1.41)	53 (1.35)
Federalism (reference=unitary)			
Hybrid	.36 (.33)	.34 (.33)	.42 (.35)
Federal	.16 (.37)	.09 (.36)	08 (.35)
PO * hybrid	1.62 (1.63)	1.85 (1.63)	1.56 (1.73)
PO * federal	2.65 (1.87)	2.45 (1.86)	2.80 (1.83)
EU member	02 (.43)	.10 (.43)	.13 (.43)
PO * EU member	.69 (2.13)	.60 (2.11)	.56 (2.11)
Salience	.43 (.22)*	.43 (.22)*	.43 (.22)*
PO * salience	1.48 (.91)	1.52 (.92)	1.55 (.92)
Year	.12 (.10)	.12 (.10)	.11 (.10)
PO * year	-1.13 (.48)*	-1.17 (.49)*	-1.14 (.48)*
Issue intercept variance	2.40 (1.03)	2.39 (1.02)	2.38 (1.02)
Issue PO slope variance	31.13 (18.13)	31.37 (18.27)	31.43 (18.33)
Intercept-slope covariance	3.59 (3.33)	3.23 (3.34)	3.45 (3.34)
Deviance	742	745	747
N level 1 (level 2)	491 (20)	490 (20)	491 (20)

^{*} p<.05, ** p<.01, *** p<.0005.

The models in Tables 1 and 3 include the Effective Number of Parliamentary Parties (ENPP) in the last election prior to the year in which public opinion and policy are measured as the measure of electoral system proportionality. Here, the measure is replaced with three alternative measures in order to test the robustness of the results: (1) a dummy indicating whether the main system used for lower house elections in a country is based on plurality or PR rules (Keefer 2015); (2) the Gallagher Index or Least Squares Index (Gallagher 2014), indicating the degree of vote-seat disproportionality of an election, at the last legislative election; and (3) a measure of the average district magnitude at the first tier at the last legislative election (Bormann and Golder 2013). In Table D1, Model 3 (Table 1) is replicated with these three measures. Table E2 replicates Model 7 (Table 3). The estimates show that neither the relationship between

public opinion and policy nor opinion-policy congruence are affected by variation in the electoral system.

Table E2. Effects on public opinion-policy congruence

	PR/majoritarian system dummy	Gallagher Index	Average district magnitude
Opinion majority	3.48 (1.07)**	3.47 (1.07)**	3.47 (1.07)**
Electoral system measure	.42 (.36)	00 (.03)	.00 (.00)
Regime type (reference=parliamentary)			
Semi-presidential	.30 (.24)	.37 (.24)	.37 (.24)
Presidential	12 (.56)	13 (.56)	10 (.56)
Bicameralism	79 (.27)**	68 (.27)*	69 (.26)**
Federalism (reference=unitary)			
Hybrid	.33 (.33)	.36 (.34)	.33 (.35)
Federal	.63 (.36)	.51 (.36)	.53 (.35)
EU member	.50 (.41)	.56 (.41)	.56 (.41)
Salience	.49 (.14)**	.48 (.14)**	.48 (.14)**
Year	09 (.07)	09 (.07)	09 (.07)
Intercept	.34 (.46)	.29 (.47)	.28 (.46)
Issue intercept variance	.94 (.41)	.93 (.41)	.94 (.41)
Deviance	547	549	549
N level 1 (level 2)	491 (20)	490 (20)	491 (20)

^{*} p<.05, ** p<.01, *** p<.0005.

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ONLINE APPENDIX F: Salience measure based on the 'most important problem' item

It is common in political science to use responses to the 'most important problem' (MIP) survey question as an indicator of the salience of an issue. We chose to use an indicator of the media salience of the policy issues in our sample instead, since we hypothesize that representation should function better if the public has more information about the issue at stake and about political elites' positions and if policy-makers are, in turn, better informed about the preferences of the public. The media plays an important role in the transmission of this information. We nevertheless construct an alternative indicator using the MIP item.

Obtaining data on the 'most important problems' of the publics from all countries included in our study over the time period covered (1998-2013) is problematic. The first option is to use data from the Eurobarometer, which started to regularly include the MIP item in 2002. In this case, we would need to use data on salience in 2002 for the issues where policy and public opinion were measured between 1998 and 2001 (4 issues). But the more serious problem is that the item in the Eurobarometer (EB) is closed-ended and includes a very limited range of broad policy categories EB 57.2, conducted in 2002, contains the following issue categories: (1) crime, (2) public transport, (3) economic situation, (4) rising prices/inflation, (5) taxation, (6) unemployment, (7) terrorism, (8) defense/foreign affairs, (9) housing, (10) immigration, (11) health care system, (12) educational system, (13) pensions, and (14) protecting the environment. These categories change slightly over time. It is apparent that issues such as 'online voting' or 'adoption of children by single-sex couples' do not easily fit into any of these categories.

The other option is to use surveys that include open-ended items, where the response categories that were matched to the responses and are included in the dataset are generally more detailed. We chose this option and used the data from the European Election Studies (EES) from 1999, 2004, and 2009. We matched each policy issue in our sample with a response category in the last survey that was conducted before the respective policy and public support for it were measured. We then calculated the percentage of survey respondents in each country who mentioned the issue category among all respondents who gave a valid answer to the MIP question, which becomes the MIP salience measure. The policy issues and the response categories matched to them are listed in Table F1.

Table F1. List of policy issues and the issue categories matched to them that summarize responses to the 'most important issue' question in the European Election Studies (EES)

Policy issue	Year of public opinion and policy	Year of EES	MIP issue category
Warnings on alcoholic drink bottles directed at pregnant women and drivers	2009	2009	Health care
Experiments on animals like monkeys and dogs	2010	2009	Animals
Smoking bans in bars and pubs	2008	2004	Health care
Banning of tobacco sale through vending machines	2012	2009	Health care
Embryonic stem cell research	2010	2009	Health care
Nuclear power	2008	2004	Energy
Nation-wide minimum wage	2010	2009	Wages and earnings
State support for those who leave work to care for dependent persons	2007	2004	Welfare policy
Detaining terrorist suspects indefinitely without charging them	2005-2008	2004	Terrorism
Same-sex marriage	2009	2009	Civil rights, civil liberties, rights in general; homosexuals
Adoption of children by same-sex couples	2008-2009	2004	Politics of minorities
Abortion	2009	2009	Abortion
Ius soli (citizenship on the basis of birth in a territory)	2003-2005	1999	Politics of minorities/integration
Progressive income tax	1998-2001	1999	Taxes
The right to earn an unlimited income while receiving a pension	2001	1999	Pensions, retirement policy, retirement options
Asylum seekers' right to work while waiting for the decision	2002-2003	1999	Immigration
On-line voting	1999	1999	Other election-related issues
Military involvement in Afghanistan	2001	1999	Defense and national security; foreign affairs
Mandatory retirement age	2011	2009	Pensions; national employment policies
Banning the disposal of plastic waste in landfills	2013	2009	Environment

It is clear that the categories are still much broader than the policy issues in most cases, whereas in some they fit very well (in particular for the issue of abortion). It is therefore not surprising that the MIP salience variable is uncorrelated with the media salience variable (Pearson's r=.02, p=.65), which measures the salience of the specific policy issues rather than the broader policy areas. The media salience measure is arguably not equally valid for all countries, since the Financial Times covers, and is read in, some countries more than in others. On these grounds, it should have a particularly high degree of validity for the UK. Yet, even here, it is entirely uncorrelated with the MIP salience measure. This suggests that the MIP salience measure is not

a good indicator of the salience of the policy issues in the public debate – and especially in the media.

Table F2. The effects of media and MIP salience on the relationship between opinion and policy

	Model			
	1	2	3	4
Public opinion (PO)	6.29 (1.71)***	5.99 (1.83)**	5.32 (3.39)	4.15 (3.55)
ENPP	05 (.09)	04 (.09)	02 (.09)	02 (.09)
PO * ENPP	.60 (.48)	.63 (.49)	.75 (.49)	.80 (.50)
Regime type (reference=parliamentary)				
Semi-presidential	.35 (.26)	.36 (.26)		
Presidential	37 (.82)	25 (.84)		
PO * semi-presidential	-1.38 (1.32)	-1.69 (1.34)		
PO * presidential	-2.32 (4.98)	-3.69 (5.24)		
Legislature's influence			14 (.08)	15 (.09)
PO * legislature's influence			.13 (.44)	.22 (.45)
Bicameralism	.02 (.28)	.04 (.28)	.17 (.29)	.18 (.29)
PO * bicameralism	12 (1.46)	06 (1.49)	27 (1.50)	26 (1.53)
Federalism (reference=unitary)				
Hybrid	.01 (.35)	06 (.36)	.07 (.35)	.02 (.36)
Federal	00 (.38)	.02 (.39)	04 (.38)	01 (.38)
PO * hybrid	1.34 (1.67)	1.79 (1.72)	1.29 (1.67)	1.73 (1.71)
PO * federal	.68 (1.99)	.70 (2.01)	.66 (1.98)	.81 (2.00)
Media salience	.39 (.22)		.42 (.22)	
PO * media salience	1.17 (.83)		.82 (.80)	
MIP salience		.06 (.03)*		.05 (.03)
PO * MIP salience		17 (.15)		10 (.15)
Year	.04 (.10)	.04 (.11)	.04 (.10)	.04 (.11)
PO * year	-1.09 (.44)*	-1.10 (.48)*	-1.15 (.44)**	-1.12 (.48)*
Issue intercept variance	2.45 (1.10)	3.45 (1.53)	2.46 (1.10)	3.37 (1.48)
Issue PO slope variance	19.53 (15.07)	27.60 (20.32)	16.35 (15.04)	24.12 (19.50)
Intercept-slope covariance	4.28 (3.18)	6.46 (4.42)	4.80 (3.08)	6.62 (4.19)
Deviance	620	618	577	578
N level 1 (level 2)	397 (20)	397 (20)	375 (20)	375 (20)

^{*} p<.05, ** p<.01, *** p<.0005.

In Tables F2 and F3, we re-estimate the models from Tables 1 and 3 that estimate the effects of salience on the opinion-policy relationship and congruence, respectively, substituting the MIP salience measure for the media salience measure. We also report the results of the models using the media salience measure on the same sample, since the sample decreases from 491 to 397 cases when using the MIP salience measure because the EES do not include all countries (most importantly, it only includes EU member states, which is why the EU dummy is excluded from the models). We find that neither the media salience nor the MIP measure moderate the relationship between opinion and policy in the reduced sample, no matter whether

the model includes the regime type dummies (Models 1 and 2, Table F2) or the indicator of the legislature's influence (Models 3 and 4).

In Table F3, we find that media salience maintains its significant positive effect on congruence in the reduced sample (Models 5 and 7). MIP salience, on the other hand, does not influence the relationship. Since the positive effect of issue salience on the strength of the opinion-policy link has been shown in a range of studies using different data and focusing on different periods and countries (e.g. Lax and Phillips 2012; Page and Shapiro 1983), this finding can be considered support for the claim that the media salience indicator is a more valid measure of our concept than the MIP salience variable.

Table F3. The effects of media and MIP salience on public opinion-policy congruence

	Model			
	5	6	7	8
Opinion majority	3.24 (1.17)**	3.08 (1.21)*	3.63 (1.23)**	3.43 (1.26)**
ENPP	03 (.08)	03 (.08)	05 (.09)	05 (.09)
Regime type				
(reference=parliamentary)				
Semi-presidential	.25 (.26)	.24 (.26)		
Presidential	86 (.78)	81 (.78)		
Legislature's influence			05 (.08)	05 (.08)
Bicameralism	79 (.29)**	78 (.29)**	81 (.30)**	80 (.30)**
Federalism				
(reference=unitary)				
Hybrid	.35 (.37)	.32 (.37)	.30 (.36)	.27 (.36)
Federal	.41 (.38)	.41 (.39)	.39 (.38)	.39 (.38)
Media salience	.43 (.14)**		.43 (.15)**	
MIP salience		.04 (.04)		.04 (.04)
Year	12 (.07)	13 (.08)	12 (.07)	12 (.08)
Intercept	1.01 (.31)**	1.00 (.35)**	1.15 (.31)***	1.14 (.35)**
Issue intercept variance	.84 (.40)	1.40 (.63)	.95 (.45)	1.48 (.66)
Deviance	449	455	419	425
N level 1 (level 2)	397 (20)	397 (20)	375 (20)	375 (20)

^{*} p<.05, ** p<.01, *** p<.0005.

REFERENCES

Lax, Jeffrey R., and Justin H. Phillips (2012). The Democratic Deficit in the States. *American Journal of Political Science* 56(1): 148-166.

Page, Benjamin I. and Robert Y. Shapiro (1983). Effects of Public Opinion on Policy. *American Political Science Review* 77(1): 175-190.

ONLINE APPENDIX G: Marginal effects plots of interactions

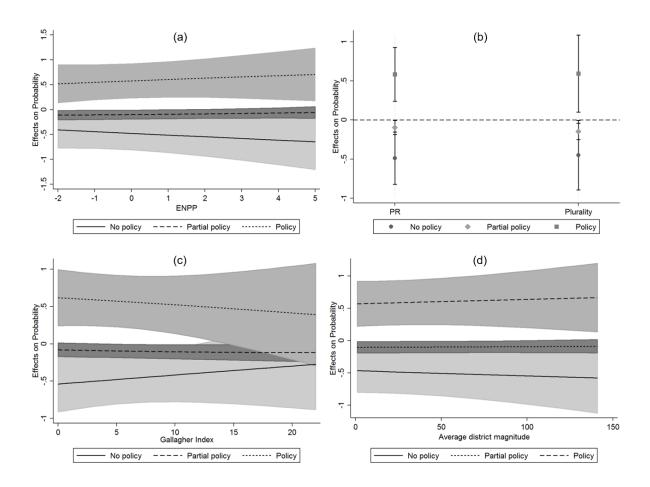


Figure G1. Marginal effects of public opinion on the probabilities of no policy, partial policy, and policy in different electoral systems

Notes: Average marginal effects with covariates at their observed values and 95% confidence intervals. (a) is based on Model 3 (Table 1); (b), (c), and (d) on equivalent models with ENPP replaced by the respective measure. ENPP is grand mean-centered.

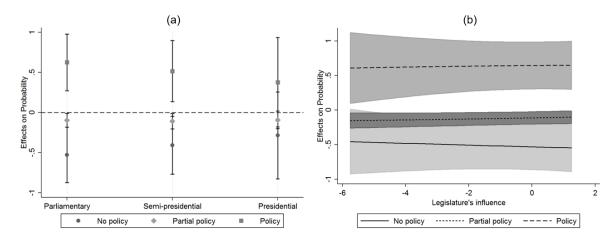


Figure G2. Marginal effects of public opinion on the probabilities of no policy, partial policy, and policy in different regime types

Notes: Average marginal effects with covariates at their observed values and 95% confidence intervals. (a) is based on Model 3, (b) on Model 4 (Table 1). Legislature's influence is grand mean-centered.

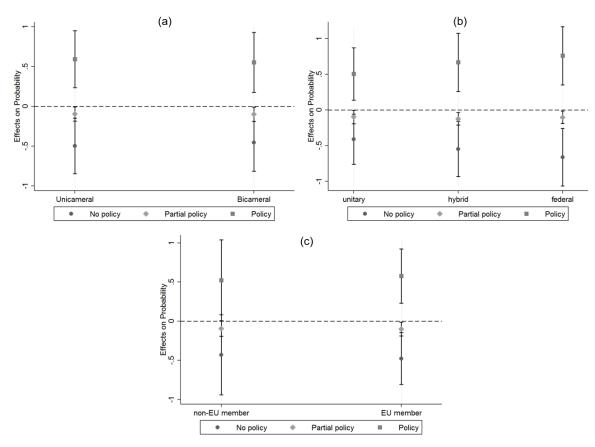


Figure G3. Marginal effects of public opinion on the probabilities of no policy, partial policy, and policy along variation in bicameralism, federalism, and EU membership status

Notes: Average marginal effects based on Model 3 (Table 1) with covariates at their observed values and 95% confidence intervals.

ONLINE APPENDIX H: Specifications with country fixed effects

Table H1. Ordinal logit regression with country fixed effects and robust standard errors (equivalent to Models 3 and 4 in Table 1)

	Mode	el
	3	4
Public opinion (PO)	4.25 (2.10)*	3.34 (2.22)
PO * ENPP	.13 (.37)	.06 (.41)
Regime type (reference=parliamentary)		
PO * semi-presidential	16 (.99)	
PO * presidential	83 (2.03)	
PO * legislature's influence		.00 (.31)
PO * bicameralism	.24 (1.11)	.16 (1.17)
Federalism (reference=unitary)		
PO * hybrid	.13 (1.34)	03 (1.36)
PO * federal	.18 (1.54)	.07 (1.53)
PO * EU member	1.10 (2.04)	2.29 (2.27)
Salience	.35 (.06)***	.36 (.06)***
PO * salience	.65 (.27)*	.63 (.31)*
Year	.11 (.04)**	.12 (.04)**
PO * year	-1.24 (.21)***	-1.31 (.21)***
Deviance	892	817
N	491	457

^{*} p<.05, ** p<.01, *** p<.0005

Notes: Models include country fixed effects and robust standard errors.

Table H2. Logistic regression with country fixed effects and robust standard errors (equivalent to Models 7 and 8 in Table 3, excluding variables with no within-country variation)

Opinion majority	2.06 (.80)*
ENPP	11 (.22)
EU member	1.24 (.58)*
Salience	.39 (.06)***
Year	07 (.03)*
Intercept	05 (.82)
Deviance	568
N	487

^{*} p<.05, ** p<.01, *** p<.0005.

Notes: Models include country fixed effects and robust standard errors. Iceland is excluded because its observations are predicted perfectly.

ONLINE APPENDIX J: Congruence models excluding opinion majority

Table J1. Effects on public opinion-policy congruence without the opinion majority measure (equivalent to Models 7 and 8 in Table 3 and models in Table E2)

	ENI	PP	PR/majoritarian system dummy	Gallagher Index	Average district magnitude
Electoral system measure	10 (.08)	11 (.08)	.42 (.36)	01 (.03)	.00 (.00)
Regime type					
(reference=parliamentary)					
Semi-presidential	.35 (.24)		.31 (.24)	.39 (.24)	.38 (.23)
Presidential	06 (.56)		07 (.56)	09 (.56)	04 (.56)
Legislature's influence		13 (.08)			
Bicameralism	79 (.26)**	73 (.27)**	84 (.27)**	72 (.27)**	74 (.26)**
Federalism					
(reference=unitary)					
Hybrid	.35 (.34)	.29 (.33)	.32 (.33)	.36 (.34)	.31 (.35)
Federal	.55 (.35)	.49 (.35)	.56 (.35)	.43 (.36)	.46 (.34)
EU member	.51 (.40)	.79 (.42)	.48 (.40)	.54 (.40)	.53 (.40)
Salience	.41 (.13)**	.40 (.14)**	.41 (.13)**	.41 (.13)**	.41 (.13)**
Year	08 (.06)	08 (.06)	08 (.06)	08 (.06)	08 (.06)
Intercept	.35 (.45)	.22 (.46)	.36 (.45)	.32 (.46)	.29 (.45)
Issue intercept variance	.83 (.37)	.92 (.41)	.82 (.37)	.81 (.37)	.82 (.37)
Deviance	559	518	559	560	560
N level 1 (level 2)	491 (20)	457 (20)	491 (20)	490 (20)	491 (20)

^{*} p<.05, ** p<.01, *** p<.0005.