Short communication

Powers that be? Political alignment, government formation, and government stability

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ARTICLE INFO

Dataset link: https://www.openicpsr.org/openicpsr/project/195361

JEL classification:
D72
H2
H77

Keywords:
Government stability
Government formation
Political alignment
Inter-governmental relations

ABSTRACT

We study how partisan alignment across levels of government affects coalition formation and government stability using a regression discontinuity design and a large dataset of Spanish municipal elections. We document a positive effect of alignment on both government formation and stability. Alignment increases the probability that the most-voted party appoints the mayor and decreases the probability that the government is unseated during the term. Aligned parties also obtain sizeable electoral gains in the next elections. We show that these findings are not the consequence of favoritism in the allocation of transfers towards aligned governments.

1. Introduction

In parliamentary democracies, the head of government is chosen by the legislature after bargaining among parties. The most-voted party typically proposes a coalition to potential allies promising cabinet seats, some control over the agenda, or other benefits in exchange for support. If the proponent party gathers sufficient backing from other parties, then a government is formed. The stability of the resulting government is tightly linked to that of the majority that supports it, as the government might be unseated if some of the coalition partners quit to join an alternative coalition.

However, no government is an island, and external factors will affect its fate. Local governments cooperate and wrangle with those in the upper tiers, such as the region or the state. Similarly, national governments deal with international institutions and organizations. Partisan affinities cut through these layers and affect how different tiers of government interact with each other. A party aligned with upper-levels of government enjoys several benefits that can be offered to potential coalition members. To start, alignment comes with connections with high-ranking politicians that can help build trust and favor the transfer of government funds (Bracco et al., 2015; Curto-Grau et al., 2018). These connections can then also help in career-building efforts and grant local politicians greater visibility in the media or during electoral campaigns. In turn, an aligned party might have better chances to gather a coalition than a proponent which is not aligned. Moreover, a coalition formed by an aligned proponent might be more likely to survive and last all the way through the term.

\(\ast\) Acknowledgments: We would like to thank the editor, two referees, Ilyana Kuziemko, Eva Mörk, Pilar Sorribas-Navarro, and seminar participants at the 78th Annual Congress of the International Institute of Public Finance, the Catholic University of Milan, Harvard University, LSE, Central European University and Universidad de la Plata for useful comments and suggestions. Some of the results in this paper were previously circulated under the title “Divided they Fall. Fragmented Parliaments and Government Stability”. Davide Cipullo gratefully acknowledges funding from the Jan Wallander and Tom Hedelius Foundation scholarship, grant n. P2017-0185.

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https://doi.org/10.1016/j.jpubeco.2023.105017

Received 31 October 2022; Received in revised form 21 September 2023; Accepted 27 October 2023
Available online 20 December 2023

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Although rigorous empirical evidence is lacking, anecdotes about the importance of political alignment in shaping government dynamics are common. In 2015, Italian president Sergio Mattarella deemed Paolo Savona unfit as potential minister for the economy and finance because Savona had previously expressed anti-euro views. Conversely, later in the same term, Mattarella appointed the former European Central Bank governor and vigorously pro-EU Mario Draghi as the Prime Minister of a large government coalition. Unaligned politicians also suffer on the revenues side. In 2022, the European commission called for an estimated €7.5 billion in European funds to be withheld from Hungary, led by euro-sceptic Viktor Orbán, shortly after Orbán’s faction left the People’s Party in the European Parliament.

This paper investigates how political alignment shapes (i) the formation of governments, (ii) the survival of these governments over time, and (iii) the electoral fortunes of parties in the next election. We study this question in the context of a parliamentary democracy, Spain, focusing on the local (municipal) councils and their alignment with the regional government (Comunidad Autónoma). This context allows us to deploy quasi-experimental methods to obtain credible estimates of the effects of interest. We define a municipality to be aligned with the regional government if the coalition in power at the regional level also has the majority of seats in the local election. Our empirical approach is based on a regression-discontinuity design (RDD) with close elections (Lee, 2008; Folke, 2014). To implement this strategy, we construct a dataset with information on more than thirty thousand municipal legislatures in the period 1983–2014.

We find that local parties aligned with the regional government enjoy several advantages over non-aligned parties. To start, we document that the top party – i.e., the one with the most votes – is much more likely to appoint the mayor when parties belonging to the coalition in power at the regional level win the local elections. Correspondingly, we find a large negative effect of alignment on the probability that the runner-up appoints the mayor. Both of these results indicate that the aligned party has an advantage in the bargaining stage of coalition formation. Consistent with this interpretation, we find no effect of alignment in legislatures where one party wins the majority of municipal seats and, thus, can rule alone.

Aligned governments are also much more stable than unaligned ones. Estimates indicate that governments are 3 percentage points less likely to be unseated via a no-confidence vote when they are aligned. Compared to the baseline probability of being unseated of about 5% around the threshold, this effect is large and close in magnitude to the impact of having one party less in the local council estimated in a similar setting by Carozzi et al. (2022). In terms of resource allocation from upper tiers of government, we find that the large increase in transfers found by, e.g., Curto-Grau et al. (2018), arises entirely from terms where one party holds the majority – more than 50% – of seats. Minority and coalition governments, instead, receive no additional transfers from alignment. These results suggest that upper tiers are willing to distribute resources along political lines only when the aligned local party has full control of the government.

Gains from alignment do not end with the current legislature, but persist. RDD estimates show that the top party obtains a 1.5 percentage points higher vote share in the subsequent elections when aligned, while alignment decreases the vote share of the runner-up party by 2 percentage points. When no single-party majority is available – i.e., in the case of minority or coalition governments – our results suggest that both the top party and the junior coalition partners benefit from alignment. When a single-party majority is present, alignment results in a transfer of votes from the non-aligned to the aligned party.

Taken together, our results indicate that political alignment strengthens the bargaining power of local parties, and does so substantially. This effect does not operate through providing parties with more resources via additional transfers — which only happens in terms where the mayor rules with a single-party majority. Instead, benefits from alignment for government formation and survival are exclusively present when the local party needs to either form a coalition or avoid an opposing coalition to rule, suggesting that political connections with upper tiers of government (or implicit bargaining norms) may be even more important than inter-governmental transfers in these settings.

The Spanish context presents several methodological advantages when it comes to studying the impact of partisan alignment on government formation and survival. In the first place, all government levels in Spain operate as autonomous parliamentary democracies. Because both who is appointed to lead the local government and whether that government survives is often shaped by coalition formation mechanics, there is room for upper tiers of government to play a relevant role in the process. Secondly, during this period Spanish politics was dominated by two large parties which have substantial presence at all government levels. Thus, partisan alignment across tiers occurs frequently. Finally, the sample size given by the large number of municipal governments allows us to implement a regression-discontinuity design to exploit exogenous variation in alignment status. These three factors have implications for the external validity of our findings. In particular, our results provide useful insights to think about government formation and stability in parliamentary democracies with well-established parties.

A large empirical literature has shown that favoritism in the allocation of government resources across locations is common in many settings. Arulampalam et al. (2009), Bracco et al. (2015), Curto-Grau et al. (2018) and Brollo and Nannicini (2012) – among others – document large impacts of partisan alignment with upper tiers of government on budget transfers for different countries. Favoritism need not run along partisan lines only. Using cross-country data, Gehring and Schneider (2018) show that EU commissioners allocate more funds to their home countries. Ethnic favoritism has also been widely shown to be a relevant phenomenon (see, e.g., Hodler and Raschky, 2014; Burgess et al., 2015). We contribute to this literature by focusing our attention on the influence that other tiers of government may have on government formation and stability.

Previous work on the effect of political institutions on government stability studied the effects of the electoral system (e.g., Linz, 1994; Cheibub et al., 2004), electoral rules such as vote share thresholds (Carozzi et al., 2022), or the confidence vote (Huber, 1996). Our contribution to this literature lies in showing that political alignment has large effects at the government formation stage and also affects stability.

Finally, our paper also relates to the empirical literature on the determinants of government formation. Fujiwara and Sanz (2019) used data and a setting similar to ours to show that the rank ordering of parties in terms of electoral results determines their capacity to appoint the executive even when the number of seats won by each party is the same. Gonzalez-Eiras and Sanz (2021) study the impact of electoral systems on the propensity of women to be appointed as mayors. Using data for Finnish municipalities, Meriläinen and Tukiainen (2022) document the presence of an incumbency advantage in the allocation of executive roles across parties with representation in the local council. Our contribution to this growing literature is to emphasize the role of alignment as an important determinant of the capacity of parties to appoint the executive in parliamentary democracies.

2. Context and data

2.1. Context

Spain has, as of 2011, 8,166 municipalities, covering all its territory. Municipalities are the smallest unit of government and take care of urban planning, upkeep of the transport network, provision of local services (e.g., sport facilities), waste disposal, and mass transit.

Municipal expenditures are predominantly financed by local taxes (the largest of which are a business tax and a property tax) and fiscal transfers from the national and regional governments and the EU. On average, taxes contribute to over half of all municipal revenues.
Municipalities are governed by a mayor (alcalde) and the municipal council (pleno o concejo municipal). In municipalities with more than 250 inhabitants, council members are elected directly by citizens every four years via a closed-list proportional system. Council seats are assigned following a D'Hondt rule with a 5% entry threshold. The mayor is chosen with a majority of the municipality council, that meets right after the election for this purpose. If no candidate reaches the required support, then a default rule applies and the most-voted party has the right to appoint the mayor. Analogously, the president of regional governments (presidente de la comunidad autonoma) and the prime minister (presidente del gobierno) are elected by the regional council and by Congress, respectively. The heads of the executive at all levels of government can be replaced during the term with a vote of the majority of members of the legislative (moción de censura).

Spanish politics has traditionally been dominated by two large national parties, the center-left socialists PSOE and the center-right people's party PP (which ran as Alianza Popular in the 1980s). These two parties alone account for over 70% of all mayors in our sample. The third party running in all jurisdictions in this period is IU, a left-wing platform including the Spanish communist party. In addition, regional parties are often very important in their area of influence. For example, the center-right coalition CIU ruled over 50% of all municipalities in Catalonia between 1979 and 2014. About 95% of all mayors come from parties that also participate in elections at the national or regional level. The fact that most mayoralities are held by parties with national representation is, arguably, an advantage of the Spanish setting in studying effects of political alignment.

After the transition to democracy, municipal elections have been taking place simultaneously across the country every fourth year since 1979. Regional elections take place every four years too. The first round of regional elections took place between 1979 (Navarra) and 1985 (Galicia), with most regions holding their elections in 1983. Due to these initial differences in the electoral calendar, regional elections continue to be scheduled at different points in time in different regions.

2.2. Data

Our dataset consists of a panel of municipalities covering the period 1983–2014. Our main data sources consist of electoral records, data on individual mayors and mayoral changes, municipal demographics (population, surface), and data on the composition of regional governments. Electoral outcomes in municipal and regional elections are obtained from the Ministry of Internal Affairs. We complement this dataset with information on mayors and their party of affiliation from the same source. Population data are taken from the residential registry (Padrón continuo). Finally, we use data on capital transfers from regional to municipal governments – available since 1999 – as a measure of resource transfers between government levels.

We only include municipalities with more than 250 inhabitants in our sample because of a different electoral system in small towns, leaving us with just under 6000 municipalities in the original dataset. We impose additional sample restrictions based on missing data or inconsistencies between sources, and exclude cases in which the party of the mayor cannot be identified, only one party runs in the election, or the first and second (or second and third) parties tie in votes. For each election in our sample, we have information on all party votes and seats received in the council, as well as blank and void votes. Our final sample relies on 38,412 observations.

Panel A of Table 1 provides municipal-level descriptive statistics for our sample. The average municipal population is just under 8000 inhabitants, and the average surface is 242 km². Panel B includes descriptions on local governments. PP and PSOE are the dominant parties in this period, and together account for 78 percent of all mayors. In 64% of municipalities, the municipality council is aligned — that is, parties forming the governing block at the regional level hold the majority of seats in the municipality council. We code parties as belonging to the regional bloc if they supported the regional president in the investiture vote. The most-voted party appoints the mayor in the vast majority of cases (92%), while the runner-up does so in 7% of the terms.

3. Research design and results

3.1. Regression-discontinuity design

The goal of our analysis is to estimate the impact of partisan alignment with upper tiers of government on local government formation and survival. This can be empirically challenging because the alignment status of a municipality is likely to be correlated with unobservable features of the local electoral landscape, such as the strength of local parties or the competence of elected representatives. Reverse causality can also be an issue, particularly in the case of large municipalities where municipal outcomes can affect regional or even national politics and, hence, determine alignment status indirectly.

To overcome these issues, we implement a regression-discontinuity design (RDD) using close elections (Lee and Lemieux, 2010; Curto-Grau et al., 2018). The RDD relies on comparing municipalities where the parties in the regional bloc command a majority in the council with municipalities where these parties just failed to achieve that goal. The focus on regional alignment — instead of, say, alignment with the national government — is motivated by both institutional features and identification concerns. Regarding the former, regional governments are much closer to local governments and may be more likely to modify their decisions to pursue objectives at the level of municipalities. Regarding identification, the use of regional-level variation in the identity of ruling parties allows us to control for any direct impact of parties on the outcome variables of interest.

We define \( D_{ir} \) as an indicator taking value 1 if the parties in the coalition currently in the regional government of region \( r \) win a majority of seats in municipality \( i \) and election year \( t \) — i.e., if the combined seat share of those parties is larger than the combined seat share of parties belonging to the regional opposition. In these cases, we say that the local council is aligned with the region. To measure the vote share distance to (or from) being aligned, we construct our running variable \( W_{ir} \), building on recent work by Folke (2014) and Fiva et al. (2018) that adapts the close-elections RDD method to proportional systems.

Our baseline regression-discontinuity model is then as follows:

\[
Y_{ir} = a + \beta D_{ir} + \gamma_1 W_{ir} + \gamma_2 W_{ir} D_{ir} + \delta_i + \epsilon_{ir},
\]

where \( Y \) is the outcome of interest, e.g., an indicator equal to one if the mayor was unseated with a no-confidence vote. Coefficient \( \beta \)

Note that this definition of alignment includes parties that give external support to the regional president but do not enter the government directly. In particular, we follow Curto-Grau et al. (2018) and redistribute votes to (or from) the opposition bloc until a majority change takes place. In each case, the transfer of votes is carried out by apportioning votes based on initial party vote shares. Details on the calculation of the running variable can be found in Appendix B.
RDD estimates, in an effort to ensure that our design has enough power to detect effects of interest of reasonable sizes. Reassuringly, we find that power is high for the main outcomes, reaching the conventional threshold of 0.8 for effects as small as one-tenth of a standard deviation for the government formation and stability outcomes.

### 3.2. Aligned councils and government formation

We start by testing whether aligned parties are more likely to appoint a mayor using our regression-discontinuity design. To do so, we need to show that an aligned party is more likely to appoint the mayor than a unaligned one with similar electoral outcomes and, crucially, similar support in the council. We focus our attention on the top party, i.e., the most-voted party in a municipal election. The top party is generally also the party which obtains the largest number of seats in the council and, by law, has the right to appoint the mayor if other parties are unable to form an opposing coalition (see Section 2). We compare the probability that the top party appoints the mayor when it is aligned and when it is not. Because of the RD design, municipalities close to the alignment threshold should be similar in all respects and only differ by alignment status. Importantly, the vote share and seat share of the top party should, on average, be very similar at either side of the threshold.

In Fig. 1, we illustrate this exercise graphically by showing reduced-form relationships between the distance to council alignment $W_0$ and four outcomes of interest. We report binned-scatter plots and estimated regression lines in each panel to illustrate the change in each outcome at the threshold. Panels A and B of Fig. 1 show, respectively, that both the vote share and the seat share of the top party are smooth at the threshold. Panels C of Fig. 1 show large jumps in the probability that the top party is aligned with the regional bloc at the threshold. This is in line with the balancing checks reported in the Appendix and confirms the assumption that top parties at either side of the threshold have comparable electoral performance and seats in the council. Panel C shows a large jump in the probability that the top party is aligned with the regional bloc at the threshold. This is not a concern in practice, as the proportion of neighbors of a municipality that are aligned varies smoothly at the threshold, as is the case for other predetermined covariates.

A final note on the research design is due regarding issues of lack of power in regression-discontinuity designs recently raised in, e.g., Stommes et al. (2023). One limitation RD designs is that, by relying on relatively few observations for estimation, they may at times be underpowered to detect small effects. In Appendix C, we follow Cattaneo et al. (2019) and estimate power functions for our main RDD estimates, in an effort to ensure that our design has enough power to detect effects of interest of reasonable sizes. Reassuringly, we find that power is high for the main outcomes, reaching the conventional threshold of 0.8 for effects as small as one-tenth of a standard deviation for the government formation and stability outcomes.

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In column 1 of Table 2 we estimate that the effect of alignment on the probability that the top party appoints the mayor is 3.9 percentage

### Table 1

Descriptive statistics.

<table>
<thead>
<tr>
<th>Panel A. General information</th>
<th>Mean</th>
<th>Std. dev.</th>
<th>Min</th>
<th>Max</th>
</tr>
</thead>
<tbody>
<tr>
<td>Population (×1000)</td>
<td>7.83</td>
<td>55.00</td>
<td>0.25</td>
<td>3273.05</td>
</tr>
<tr>
<td>Surface (km²)</td>
<td>242.52</td>
<td>326.22</td>
<td>0.09</td>
<td>5023.12</td>
</tr>
<tr>
<td>N. Terms</td>
<td>7.04</td>
<td>1.42</td>
<td>1.00</td>
<td>8.00</td>
</tr>
<tr>
<td>Regional transfers (logs)</td>
<td>11.61</td>
<td>1.51</td>
<td>−5.30</td>
<td>17.32</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Panel B. Municipal elections and governments</th>
<th>Mean</th>
<th>Std. dev.</th>
<th>Min</th>
<th>Max</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aligned council 1/0</td>
<td>0.64</td>
<td>0.48</td>
<td>0.00</td>
<td>1.00</td>
</tr>
<tr>
<td>PP mayor 1/0</td>
<td>0.36</td>
<td>0.48</td>
<td>0.00</td>
<td>1.00</td>
</tr>
<tr>
<td>PSOE mayor 1/0</td>
<td>0.42</td>
<td>0.49</td>
<td>0.00</td>
<td>1.00</td>
</tr>
<tr>
<td>Municipal vote share of PSOE</td>
<td>0.40</td>
<td>0.17</td>
<td>0.00</td>
<td>0.99</td>
</tr>
<tr>
<td>Municipal vote share of PP</td>
<td>0.38</td>
<td>0.20</td>
<td>0.00</td>
<td>1.00</td>
</tr>
<tr>
<td>Mayor unseated 1/0</td>
<td>0.03</td>
<td>0.16</td>
<td>0.00</td>
<td>1.00</td>
</tr>
<tr>
<td>Top party appoints mayor 1/0</td>
<td>0.92</td>
<td>0.27</td>
<td>0.00</td>
<td>1.00</td>
</tr>
<tr>
<td>Runner-up party appoints mayor 1/0</td>
<td>0.07</td>
<td>0.25</td>
<td>0.00</td>
<td>1.00</td>
</tr>
<tr>
<td>Observations</td>
<td>38412</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Notes: Population and regional capital transfers are term-level averages. Surface is in km². Number of terms counts the number of full terms we have for each municipality in the sample. Mayor unseated takes the value 1 if the mayor is replaced at some point during the term by a new mayor belonging to a different party.

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7 $\lambda_t$ is the region-year (i.e., cutoff) fixed effect, whose inclusion assures we only compare aligned and unaligned councils exposed to the same incumbent regional government.
Fig. 1. Alignment and Government Formation — Reduced-form plots.
Notes: The horizontal axis is the running variable in all figures. Observations to the right of the zero threshold correspond to municipalities where the regional bloc coalition has the majority of seats in the municipal council. Correspondingly municipalities where the regional opposition has the majority are to the left of the threshold. The outcomes are: in the upper-left panel, the vote share of the most-voted party in the council; in the upper-right, its seats share; in the lower-left, the probability that it is aligned; and in the lower-right, an indicator equal to one when the most-voted party appoints the mayor. Dots are averages in 0.05 percentage point bins of the running variable, and lines are linear regressions estimated on both sides of the threshold separately using the \textit{lfitci} command in Stata. Shaded areas are the corresponding 95% confidence intervals.

Hence, alignment appears to either facilitate the formation of a coalition for parties in the aligned bloc, or to make it harder for other parties. This effect can be explained by the fact that when the top party belongs to the coalition in power in the region, it enjoys greater visibility, is directly connected to higher tiers of the administration, and has potentially more to offer to potential allies in the bargaining stage of coalition formation. Part of the effect could also be explained by the existence of an implicit norm that designates the aligned party as the one to appoint the mayor in dubious cases.

To investigate this result further, we decompose this effect by distinguishing between cases in which the top party obtains the absolute majority (>50%) of seats and cases in which it does not. Corresponding estimates are provided in column 1 of Panels B and C and show that the change in the propensity to appoint the mayor is driven entirely by municipal councils where no single party has the majority of seats. This is to be expected, as single-party majorities successfully appoint the mayor in virtually all cases. Hence, the effect detected in the full sample must be originating from municipal councils where bargaining is needed to form a coalition government or to avoid an opposing coalition.

Reproducing this analysis by focusing instead on the runner-up (the second most-voted party) yields very similar insights. Results are illustrated in Appendix Figure A.3 and show that the electoral performance of the runner-up party is smooth at the threshold, both in terms of vote and seat shares; that the probability that the runner-up is aligned with the regional government decreases discontinuously at the threshold; and, finally, that the probability that it appoints the mayor drops discontinuously at the council alignment threshold. Unaligned runner-ups in municipal elections find it much harder to appoint the mayor than otherwise comparable runner-ups that are aligned. This
alignment on government survival is driven entirely by councils in aligned councils are more likely to support appointed mayors. All the unseating the mayor is about 5% in the sample, and indicates that we show that aligned councils are 3.1 percentage points less likely to pass a successful vote of no confidence against the appointed mayor. This is a large effect, as the baseline probability of the incumbent mayor are reported in column 2 of Table 2. In Panel A, we use the full sample; in Panel B, we restrict to terms where no party has the absolute majority of seats; in Panel C, we restrict to terms where one party has the absolute majority of seats. The optimal bandwidth is calculated using the CCT criterion. Robust bias-corrected confidence interval calculated using Calonico et al. (2014)’s method are also reported. Standard errors clustered at the municipality level. *, **, and *** represent 10%, 5%, and 1% significance levels, respectively.

### Table 2

<table>
<thead>
<tr>
<th>Panel A. Full sample</th>
<th>Top party mayor</th>
<th>Mayor unseated</th>
<th>Log(Transfers)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aligned council</td>
<td>0.039**</td>
<td>−0.031***</td>
<td>0.156**</td>
</tr>
<tr>
<td>(0.014)</td>
<td>(0.010)</td>
<td>(0.079)</td>
<td></td>
</tr>
<tr>
<td>Robust 95% c.i. Bandwidth</td>
<td>[0.015; 0.075]</td>
<td>[−0.057; −0.013]</td>
<td>[−0.025; 0.337]</td>
</tr>
<tr>
<td>Mean dep. var.</td>
<td>0.076</td>
<td>0.052</td>
<td>0.067</td>
</tr>
<tr>
<td>Observations</td>
<td>12770</td>
<td>8813</td>
<td>5163</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Panel B. No single-party majority</th>
<th>Top party mayor</th>
<th>Mayor unseated</th>
<th>Log(Transfers)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aligned council</td>
<td>0.132***</td>
<td>−0.057***</td>
<td>−0.041</td>
</tr>
<tr>
<td>(0.032)</td>
<td>(0.022)</td>
<td>(0.114)</td>
<td></td>
</tr>
<tr>
<td>Robust 95% c.i. Bandwidth</td>
<td>[0.074; 0.216]</td>
<td>[−0.113; −0.018]</td>
<td>[−0.298; 0.214]</td>
</tr>
<tr>
<td>Mean dep. var.</td>
<td>0.042</td>
<td>0.041</td>
<td>0.069</td>
</tr>
<tr>
<td>Observations</td>
<td>3374</td>
<td>3251</td>
<td>2202</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Panel C. Single-party majority</th>
<th>Top party mayor</th>
<th>Mayor unseated</th>
<th>Log(Transfers)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aligned council</td>
<td>−0.003</td>
<td>0.000</td>
<td>0.410***</td>
</tr>
<tr>
<td>(0.004)</td>
<td>(0.003)</td>
<td>(0.098)</td>
<td></td>
</tr>
<tr>
<td>Robust 95% c.i. Bandwidth</td>
<td>[−0.012; 0.009]</td>
<td>[−0.007; 0.008]</td>
<td>[0.165; 0.598]</td>
</tr>
<tr>
<td>Mean dep. var.</td>
<td>0.061</td>
<td>0.114</td>
<td>0.069</td>
</tr>
<tr>
<td>Observations</td>
<td>5718</td>
<td>11360</td>
<td>3059</td>
</tr>
</tbody>
</table>

Notes: Reduced-form estimates, from Eq. (1), of the effect of council alignment on the probability that the top party appoints the mayor (column 1); that the mayor is unseated during the term with a no-confidence vote (column 2); and the log of regional capital transfers (column 3). In Panel A we use the full sample; in Panel B, we restrict to terms where no party has the absolute majority of seats; in Panel C, we restrict to terms where one party has the absolute majority of seats. The optimal bandwidth is calculated using the CCT criterion. Robust bias-corrected confidence interval calculated using Calonico et al. (2014)’s method are also reported. Standard errors clustered at the municipality level. *, **, and *** represent 10%, 5%, and 1% significance levels, respectively.

### 3.3. Alignment affects government stability and transfers

The benefits of alignment may go beyond the government formation stage and persist throughout the term. In particular, aligned local governments may be more stable and harder to unseat. To study this possibility, we use information on votes of no confidence at the municipality-term level. Successful votes of no confidence result in the incumbent mayor being ousted in favor of a new one from a different party, with a process similar to the replacement of prime ministers in parliamentary democracies. The successful approval of a no-confidence vote thus constitutes a good indicator of the government’s inability to maintain the support of the council throughout the term.

The impact of council alignment with the regional bloc on government survival is illustrated in the top panel of Fig. 2. We present results separately for councils where a party has the absolute majority of seats and councils where no party has it. As expected, single-party majorities are virtually never unseated, and whether they are aligned or not has no effect on stability. Instead, we document a large discontinuity at the threshold in the probability that coalition or minority governments are unseated. In particular, aligned councils are substantially less likely to unseat the mayor. This is a large effect, as the baseline probability of

which no party enjoys a majority of seats, consistently with the findings in Fig. 2.**

What is the origin of this effect of alignment on government stability? A natural explanation is that political alignment affects the stream of revenues from upper-tiers of government. In fact, the presence of a large, positive alignment effect on transfers has been documented for Spain (Curto-Grau et al., 2018) and several other countries (see, e.g., Bracco et al., 2015).

In the bottom panel of Fig. 2, we show the effect of alignment on the (log of) regional capital transfers received by the municipality in the term. Interestingly, we observe that aligned local governments indeed receive more transfers from the region, but only if there is a single-party majority in power. The corresponding reduced-form regression estimates are reported in column 3 of Table 2. Collectively, these results confirm that regional governments are more willing to distribute resources to aligned mayors, but only where these mayors are appointed by a party which has control of the council. Given that single-party evidence is again consistent with the notion that partisan affinities with higher government tiers facilitate government formation.

### Table A.4

| Observations | 5718 | 11360 | 3059 |

#### Notes

9 Table A.4 in the Appendix reports the 2SLS coefficients obtained from instrumenting an indicator equal to 1 if the mayor belongs to one of the parties in the regional coalition government with our Aligned Council indicator, consistently with Curto-Grau et al. (2018). Table A.4 also documents that the estimates are robust to the In Figures A.6 and A.7 we document that the effects are stable when removing one election year at a time, while in Figure A.8 and A.9 we show that the effects survive when removing data from one comunidad autonoma at a time.

10 Cases in which the municipality government is appointed a handful of days before the regional government result are not infrequent in our data, occurring in approximately 50 percent of the sample. In Table A.5, we replicate our main RD analysis excluding from the sample cases in which the regional government has not been appointed by the date in which the local government is decided. The overall validity of the results holds and, as expected, the estimated coefficient on the probability that the most voted party appoints the mayor increases substantially.


majorities are stable regardless of alignment status, transfers alone cannot explain the effect of alignment status on government survival.

While aligned mayors in coalition or minority governments do not receive more transfers, they nonetheless appear to benefit from the connection with the upper tier through an effect on stability. This effect may be due to better coordination with the regional government – providing a better technology for coalition formation – or fear of retaliation on the newly appointed government.

Anecdotal evidence indicates that the role of regional party authorities in promoting votes of no confidence against their opponents has been important in the past. Perhaps the most significant municipal vote of no confidence in our sample is the one that took place in the provincial capital of Tarragona in August 1989. In that case, CIU led a vote of no confidence against the socialist mayor, again with the support of CDS. Remarking on his recent removal from office, the ousted mayor Mr Josep Maria Recasens, mentioned that this action was done in retaliation for a vote of no confidence led by the socialists against CIU in Lleida. According to the ex-mayor’s account, the support from CDS was secured by the regional CIU government in Barcelona in exchange for a better treatment in the Catalan parliament and an executive role in the regional broadcaster.11 A review of the news coverage of votes of no confidence taking place in our sample indicates the presence of regional and province-level politicians to support their local-level colleagues is frequent when votes of no confidence takes place. Examples include the case of León in 2004, Leganés in 2007 and Chiclana de la Frontera in 2008, to name a few.12

3.4. Electoral effects of alignment

Being aligned with the regional government may also yield an advantage in the following elections, for at least two reasons. First, aligned local governments that receive extra transfers may provide more public goods and, as a result, be rewarded by voters in the next election. Second, aligned governments are more likely to survive until the end of the term – and, hence, to benefit from the incumbency advantage – than unaligned ones.

To study the impact of alignment on future electoral returns, in Table 3 we use as outcomes the vote share of the top party and the runner-up in the next election. Recall that council alignment increases the probability that the top party is aligned and reduces this probability for the runner-up (see e.g., Fig. 1). Therefore, by focusing on these two parties, we can evaluate whether aligned parties at the time of one election perform better on average in the next election

The top party reaps significant electoral gains from being aligned, with effects ranging from 1.5 to 2.0 percentage points. At the same time, the runner-up performs substantially worse in the next election, with vote shares lowered by 1.8–2.5 percentage points. These results indicate that partisan affinities with upper levels of government not only affect the outlook of local governments in the short-run, but translate into better electoral results in future elections. In this way, the control of regional (and potentially state) governments can be instrumental in promoting the success of parties locally.

In panel (B), the damages of (lacking) alignment for the runner-up party are larger than the benefits from alignment enjoyed by the most voted party when a single-party majority is not feasible. This evidence suggests that junior coalition partners may benefit from alignment too. In column 3 of Table 3, we construct a dependent variable measuring the aggregate vote share of all other parties in the next municipality election and we use it as a proxy for the benefits enjoyed by junior coalition partners. The results estimated in Panel B are not statistically significant, yet suggestive that other parties may have benefited from supporting an aligned municipality government.

4. Discussion and conclusions

We study the effect of political alignment on government formation and stability. Consistently with the hypothesis that alignment endows the local government with additional bargaining resources and connections, we find that aligned local parties are more likely to form the government than parties that are non-aligned. Governments headed

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11 See interview (in Spanish) here.

12 See this link for León, this link for Leganés, this link for Chiclana de la Frontera, and this link for Vélez Málaga.
Perhaps the key feature here is precisely the presence of strong parties, to other similar contexts (Pearl and Bareinboim, 2022). The findings. Spain has a parliamentary system with strong parties and changes in the preferences of voters. The dynamic consequences, as circumstantial electoral victories at a higher identity of governments in other tiers. This mechanism can have findings is that local political outcomes are also directly affected by who wins and who loses an election. An important implication of our characteristics – such as their competence and ideology – in determining party receiving an electoral boost in the next elections at the expense of the second most-voted party, that suffers large electoral losses. Overall, our results suggest that political alignment has important and long-lasting effects that extend beyond the transfer of additional resources traditionally emphasized and documented in the literature.

Our results are relevant to understand differences in the geographic polarization of voting preferences (Fiorentino and Abrams, 2008). Previous work has emphasized the potential role of sorting in shaping apparent patterns of increased spatial polarization in voting preferences — occasionally referred to as the “big sort” in the political science literature (Bishop, 2009; Brown and Enos, 2021; Maxwell, 2019). Our results indicate an alternative mechanism that can drive the spatial segregation of electoral preferences. The control of intermediate levels of government – such as regions or states – can provide partisan support for aligned local governments, contributing to their appointment, survival, and success in subsequent elections.

Classic models of electoral competition (Downs, 1957; Osborne and Sliwinski, 1996) stress the role of voter preferences and candidate characteristics — such as their competence and ideology — in determining who wins and who loses an election. An important implication of our findings is that local political outcomes are also directly affected by the identity of governments in other tiers. This mechanism can have dynamic consequences, as circumstantial electoral victories at a higher level of government can influence who wins locally, hence affecting the long-term electoral performance of parties even in the absence of changes in the preferences of voters.

A final comment is due regarding the external validity of our findings. Spain has a parliamentary system with strong parties and closed lists, hence we expect our findings to be applicable, at least to some extent, to other similar contexts (Pearl and Bareinboim, 2022). Perhaps the key feature here is precisely the presence of strong parties, which makes alignment consequential. Our results are less informative about contexts where parties’ control over local politics is weaker and where allegiances are more transient – as observed in some developing countries – or where local politics are sharply separated from regional or national organizations.

Declaration of competing interest

With respect to possible conflicts of interest related to this submissions, we declare we have none.

Data availability

Data and replication package related to this article can be found online at https://www.openicpsr.org/openicpsr/project/195361.

Appendix A. Supplementary data

Supplementary material related to this article can be found online at https://doi.org/10.1016/j.jpubeco.2023.105017.

Table 3
Electoral returns of alignment — Reduced-form estimates.

<table>
<thead>
<tr>
<th></th>
<th>Panel A: Full sample</th>
<th>Panel B: No single-party majority</th>
<th>Panel C: Single-party majority</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Top party V.S. (t+1)</td>
<td>Runner-up V.S. (t+1)</td>
<td>Other V.S. (t+1)</td>
</tr>
<tr>
<td><strong>Aligned council</strong></td>
<td>0.016*** (0.005)</td>
<td>-0.022*** (0.005)</td>
<td>0.002 (0.007)</td>
</tr>
<tr>
<td><strong>Robust 95% c.i.</strong></td>
<td>[0.003; 0.025]</td>
<td>[-0.033; -0.010]</td>
<td>[-0.014; 0.015]</td>
</tr>
<tr>
<td><strong>Bandwidth</strong></td>
<td>0.074</td>
<td>0.087</td>
<td>0.076</td>
</tr>
<tr>
<td><strong>Mean dep. var.</strong></td>
<td>0.461</td>
<td>0.375</td>
<td>0.167</td>
</tr>
<tr>
<td><strong>Observations</strong></td>
<td>10,218</td>
<td>11,824</td>
<td>9,928</td>
</tr>
<tr>
<td><strong>Panel B: No single-party majority</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Aligned council</strong></td>
<td>0.015* (0.008)</td>
<td>-0.026*** (0.009)</td>
<td>0.011 (0.011)</td>
</tr>
<tr>
<td><strong>Robust 95% c.i.</strong></td>
<td>[-0.003; 0.033]</td>
<td>[-0.045; -0.006]</td>
<td>[-0.011; 0.037]</td>
</tr>
<tr>
<td><strong>Bandwidth</strong></td>
<td>0.057</td>
<td>0.051</td>
<td>0.052</td>
</tr>
<tr>
<td><strong>Mean dep. var.</strong></td>
<td>0.457</td>
<td>0.384</td>
<td>0.168</td>
</tr>
<tr>
<td><strong>Observations</strong></td>
<td>3,482</td>
<td>3,249</td>
<td>3,059</td>
</tr>
<tr>
<td><strong>Panel C: Single-party majority</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Aligned council</strong></td>
<td>0.014* (0.008)</td>
<td>-0.018*** (0.006)</td>
<td>-0.004 (0.007)</td>
</tr>
<tr>
<td><strong>Robust 95% c.i.</strong></td>
<td>[-0.004; 0.029]</td>
<td>[-0.032; -0.003]</td>
<td>[-0.019; 0.012]</td>
</tr>
<tr>
<td><strong>Bandwidth</strong></td>
<td>0.058</td>
<td>0.090</td>
<td>0.087</td>
</tr>
<tr>
<td><strong>Mean dep. var.</strong></td>
<td>0.458</td>
<td>0.374</td>
<td>0.167</td>
</tr>
<tr>
<td><strong>Observations</strong></td>
<td>4,516</td>
<td>7,426</td>
<td>6,877</td>
</tr>
</tbody>
</table>

Notes: Reduced-form estimates, from Eq. (1), of the effect of council alignment on the vote share of the top party (col. 1) and the runner-up (col. 2). In Panel A we use the full sample; in Panel B, we restrict to terms where no party has the majority of seats; in Panel C, we restrict to terms where one party has the majority of seats. Controls (surface and logged population) and region-election year FE are always included. The optimal bandwidth is calculated using the CCT criterion. Robust bias-corrected confidence interval calculated using Calonico et al. (2014)’s method are also reported. Standard errors clustered at the municipality level. *, **, and *** represent 10%, 5%, and 1% significance levels, respectively.

References


