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In Defiance of Duverger: The Class Cleavage and the Emergence of District-Level Multiparty Systems in Western Europe

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Party systems, social cleavages, Duverger’s Law

Abstract
At its core, Duverger’s Law—holding that the number of viable parties in first-past-the-post systems should not exceed two—applies primarily at the district level. While the number of parties nationally may exceed two, district-level party system fragmentation should not. Given that a growing body of research shows that district-level party system fragmentation can indeed exceed two in first-past-the-post systems, I explore whether the major alternative explanation for party system fragmentation—the social cleavage approach—can explain such violations of Duverger’s Law. Testing this argument in several West European elections prior to the adoption of proportional representation, I find evidence favouring a social cleavage explanation: with the expansion of the class cleavage, the average district-level party system eventually came to violate the two-party predictions associated with Duverger’s Law. This suggests that sufficient social cleavage diversity may produce multiparty systems in other first-past-the-post systems.

Acknowledgments
I would like to thank the Editor and three anonymous reviewers for their comments and critiques of earlier drafts of this piece. Such insights have significantly improved both the quality of the argument presented in this paper and the way in which it has been presented. All remaining errors belong to me.
Over the past few decades, party system fragmentation has increased in most advanced industrial democracies, including those not operating under proportional representation (PR). This increase in party system fragmentation has occurred despite the fact that third parties are not winning seat shares proportional to their vote shares (Best, 2010). While this is evidence of Duverger’s (1963; see also Cox, 1997) ‘mechanical’ effect (i.e. the way that electoral systems translate votes into seats), it suggests that the ‘psychological’ effect (whereby third-party supporters desert parties with no chance of winning seats) is not operating as it should. Even if multiparty systems emerge in one election, electoral coordination should improve over time, resulting in fewer wasted votes and lower levels of party system fragmentation (e.g. Crisp, Olivella, and Potter, 2012; Lago and Martinez i Coma, 2012; Tavits and Annus, 2006).

Despite arguments showing how multiparty systems may emerge at the national level while district-level competition in first-past-the-post (FPTP) systems features only two parties (Cox, 1999), recent research shows that party system fragmentation in FPTP systems often exceeds the two-party expectations of Duverger’s Law (e.g. Diwakar, 2007; Gaines, 1999; Singer, 2013). Some have made the case that this is due in part to federalism and/or multilevel elections, which allows third parties to develop in elections at one level that allows them to compete as third parties in future elections at another level (Gaines, 1999, 2009; Chhibber and Kollman, 2004). However, the fact remains that party system fragmentation exceeds two-party predictions in unitary systems as well (Raymond, 2013).

One is left, then, with a theoretical puzzle: if district level party system fragmentation in some FPTP systems exceeds two-party predictions, what explains the development of these multiparty systems? It may be that party system fragmentation is shaped by the social cleavage structure of society (e.g. Lipset and Rokkan, 1967). In FPTP systems, party system fragmentation at the district level may increase beyond two-party competition when the social
structure becomes sufficiently diverse to sustain multiparty systems. This is in keeping with previous research, which has found that cleavage diversity may produce party systems in which the number of parties may exceed two-party predictions (Dickson and Scheve, 2010; Stoll, 2013). Few studies have examined and confirmed such arguments at the district level in elections held under FPTP rules (see Singer [2013] for a notable exception).

One factor inhibiting the analysis of the impact of social cleavages on the development of multiparty systems is that most of the countries which have developed multiparty systems also adopted PR systems. As a growing body of research maintains (e.g. Boix, 1999; though see also Cusack, Iversen, and Soskice, 2007), the choice of electoral system is endogenous to the incentives facing parties, leading party leaders to choose the electoral system that best serves their partisan interests. This complicates the estimation of social cleavage effects on party system fragmentation: it is difficult to tell if the larger party systems at the district level in PR systems is due to cleavage diversity per se because PR is seen as a necessary condition for social cleavages to produce multiparty systems (e.g. Clark and Golder, 2006; Duverger, 1963; Singer and Stephenson, 2009). Thus, in order to determine whether an increase in cleavage diversity is sufficient to produce and sustain multiparty systems at the district level, one would need to examine the relationship between cleavage diversity and party system fragmentation under FPTP rules.

To test the social cleavage explanation for the emergence of multiparty systems, I examine the effect that the emergence of the class cleavage in Western Europe had on district-level party systems around the time that countries began adopting PR. While previous research has documented the emergence of multiparty systems prior to the adoption of PR at the national level (Shamir, 1985), it is possible that multiparty systems developed at the district level as well. If the conventional wisdom is correct (e.g. Cox, 1999), multiparty systems should not have emerged at the district level, or at least should not have developed
due to the emergence of the class cleavage. If the social cleavage approach is correct, then the diversification of the social cleavage structure produced sustained multiparty systems at the district level.

Data Analysis

I test the argument outlined above using data from several West European countries covering elections from the mid-to-late nineteenth century until the last election before the advent of the Second World War. The list of countries and elections includes Denmark (1849-1939), Germany (1874-1933), the Netherlands (1888-1937), Norway (1882-1936), Switzerland (1848-1939), and the United Kingdom (1832-1935). While only one country (Denmark) used a pure FPTP system prior to the adoption of PR with single-member districts, I am able to simulate the conditions under pure FPTP systems through the use of a few key control variables (described below). This allows me to determine if changes in the cleavage structure—namely, the emergence of the class cleavage—were sufficient to produce and sustain multiparty competition in defiance of Duverger’s Law.

The dependent variable measures average district-level party system fragmentation in each election using district-level data taken from Caramani (2000). Specifically, I calculate the effective number of electoral parties (ENEP: Laakso and Taagepera, 1979) in each district and use the mean for each election. I employ ENEP as a measure of party system fragmentation because it is a conservative measure of the number of parties: by weighting each party’s contribution to the overall number of parties by its respective vote share, ENEP values of two allow for the presence of third parties failing to win meaningful vote shares. Thus, when ENEP significantly exceeds two, this would provide evidence that party system fragmentation exceeds the two-party predictions associated with Duverger’s Law. Because I calculate ENEP summing the vote shares for all of a party’s candidates instead of treating
each candidate separately, this has the effect of reducing the number of parties, providing an even more conservative estimate of the number of parties.

I use mean district-level ENEP instead of treating districts as the units of analysis for two reasons. One is that both the number and boundaries of districts change over time. This complicates the analysis because the units examined are not consistent from one election to the next. Instead, using the mean allows us to avoid such issues by examining whether the average district exceeds two-party predictions. Additionally, given the time period examined here, district-level data measuring the class cleavage and control variables like district magnitude are not available. Because national-level data are available, this allows us to examine whether changes in national-level conditions produce changes in the average district.

Figure 1 presents mean district-level party system fragmentation (ENEP) over time in each country. The data show that district-level party system fragmentation eventually exceeded two-party predictions in each country during the period under investigation. While the degree to which this was the case varies from country to country—i.e. Denmark exceeds two-party predictions prior to the adoption of PR only slightly, while others like Germany significantly exceed two throughout most of the time period—the fact remains that each country saw the development of multiparty systems at the district level prior to the adoption of PR.

In addition to the adoption of PR, this period also saw the development of class cleavages. As people began leaving the farms for industrial work in the cities, this allowed for the emergence of leftist parties (primarily socialist, though also Communists and a few centre-left ‘radical’ parties) representing the working classes. Prior to the emergence of these parties, party politics in most West European countries tended to focus on two major parties: conservatives and liberals. As a functional cleavage—meaning that individuals belonging to
this cleavage are present in districts across the entire country—the emergence of the class cleavage allowed leftist parties to compete in districts across the entire country (Caramani, 2003, 2004). The greater contestation by leftist parties did not result in the displacement of one of the two existing parties. Instead, the development of the class cleavage sustained leftist parties, allowing them to compete alongside the existing conservative and liberal parties. As a functional cleavage, the development of the class cleavage produced greater party system fragmentation because it meant the expansion of the class cleavage allowed leftist parties to compete and winning more votes in more districts across the country.

To measure the class cleavage, I use Vanhanen’s (2003) Index of Occupational Diversification. This variable is created as the arithmetic mean of two variables essential to the emergence of the class cleavage: the percentage of the population living in urban areas and the percentage of the population employed in non-agricultural jobs. Lower values represent more rural farming populations while higher values represent more urban populations involved in non-agricultural employment. As occupational diversification increases (i.e. as countries’ social structures become more urbanized and less agricultural), in turn producing class cleavages present across more of the country’s territory, leftist parties are able to compete alongside the existing parties in more districts. As this happens, party system fragmentation in the average district should increase. Because this variable is measured only once per decade, I use linear interpolation to fill in missing values.4

Figure 2 plots occupational diversification in each country over time. Over the same period that multiparty systems began to emerge at the district level, the economies of Western Europe became more diverse, producing more urban societies that increasingly divided the bourgeoisie and working classes in ways that facilitated the emergence of leftist parties to represent the working classes (whose interests did not fit neatly with those of the existing liberal and conservative parties’ social bases—the bourgeoisie and upper classes). Such a
development would have been favourable to leftist parties, potentially allowing them to emerge and compete alongside the existing parties in each district without significant desertion from their supporters. This suggests that the development of these multiparty systems may be due at least in part to the emergence of the class cleavage.

Figure 2 about here

In order to estimate the precise relationship between occupational diversification and district-level party system fragmentation, I include several control variables related to differences in the electoral systems of each country. Most prominent among these is a variable measuring elections held after the adoption of PR. This variable is coded one for all elections held after the adoption of PR while all other elections are coded zero.

A second variable controls for the fact that British and Swiss elections prior to the adoption of PR had district magnitudes greater than one. Because the data on the number of seats allocated to each district is not available for each election, I control for differences between elections held in single-member districts and those with district magnitudes greater than one. To do so, I include a variable coded one for elections in which mean district magnitude exceeds one, and zero otherwise, using information from Caramani (2000) regarding the use of multimember districts.

An additional control variable needed to estimate party system fragmentation in the simulated condition of a pure FPTP system differentiates between elections that used plurality rules versus those using majority rules. Because the conditions favouring strategic voting in FPTP systems largely disappear in under two-round majority rules (e.g. Cox, 1997), party system fragmentation may exceed the two-party predictions associated with Duverger’s Law in elections with majority rules even if district magnitude equals one. To account for this, I include a variable coded one for majority systems and zero otherwise.

To test the argument that PR is necessary for social cleavages to produce multiparty
systems (Clark and Golder, 2006; Duverger, 1963; Singer and Stephenson, 2009), I interact this variable with occupational diversification. In order to determine whether the effects of occupational diversification are conditioned by the multimember district or majority system variables as well, I interact occupational diversification with both the multimember and majority system variables. If the partial effect of occupational diversification (simulating conditions in which PR had never been adopted, and thus reflecting the effect of occupational diversification in FPTP systems) reaches statistical significance, this would provide evidence that occupational diversification is able to produce multiparty systems.

I estimate this model ordinary least squares linear regression. To eliminate any country-specific variance not captured by the more substantive variables included in the model, I include country dummy variables (leaving Denmark as the baseline). To reduce the likelihood that the results are influenced by potentially outlying elections, I use jackknifed standard errors. An alternative means of dealing with unmeasured country-specific effects is to use a multilevel model treating elections as nested within countries. While the small number of countries requires caution in interpreting the results, I re-estimated the first model allowing for random intercepts in order to demonstrate the robustness of the first model.

The results of both models are presented in Table 1.

Table 1 about here

The results in model 1 using bootstrapped standard errors show that occupational diversification is positively and significantly associated with mean district-level party system fragmentation. Even after controlling for differences in electoral systems and the resulting interaction effects with occupational diversification, the emergence of the class cleavage had an independent effect on mean district-level party system fragmentation. A one-unit increase in occupational diversification in FPTP systems (assuming all other variables are held to zero) is associated with an increase of effectively 0.50 parties. This finding holds when using
a random intercept model, as demonstrated in model 2. Here, the partial effect of occupational diversification remains significant and roughly the same size as model 1: a one-unit increase in occupational diversification in FPTP systems is associated with an increase of effectively 0.48 parties.

The results demonstrate that increases in occupational diversification would have produced values of district-level party system fragmentation significantly greater than two-party predictions. This can be seen in Figure 3, which displays the predicted values of mean district-level party system fragmentation across the range of occupational diversification using the results in model 1 (holding all other variables at zero). These predicted values begin to exceed two at the middle of the scale (occupational diversification values of 4.25); this effect becomes significantly greater than two at values of 5.08 and greater. Thus, the findings demonstrate that had each country’s economy developed enough, they would have seen the emergence of district-level multiparty systems nationwide without the adoption of PR. Furthermore, these results suggest that the emergence of the class cleavage played a significant part—indeed, independent of the choice of electoral system—in the development of multiparty systems at the district level in several West European countries.

*Figure 3 about here*

**Conclusion**

As noted above, previous research shows that party system fragmentation in FPTP systems has at times exceeded two-party predictions even at the district level. Consistent with these recent findings, the analysis performed here suggests that even if countries had not adopted PR (and even if they had all employed pure FPTP systems), the increase in cleavage diversity resulting from the emergence of the class cleavage may have facilitated the development of multiparty systems in Western Europe anyway. While it is difficult to
generalise based on a sample that includes only one country using pure FPTP with single-member districts, these results support an understanding of party systems rooted in the social cleavage approach.

Due to the difficulty of generalising based on this sample, future research is needed to confirm these findings. First, further research is needed to show that district-level multiparty systems emerge in districts where cleavage diversity is greatest, while two-party systems remain in less diverse districts, even in the absence of PR. This could be achieved by examining variation in district-level party systems in contemporary FPTP systems.

Second, more research is needed to understand why voters in FPTP systems vote non-tactically (or at least seemingly so). In keeping with one of the explanations of non-tactical voting behaviour derived from Cox (1997: 79), a social cleavage perspective holds that non-tactical voting occurs because class and other social group identities lead individuals belonging to one group to care so much about their first preferences that they find parties representing other groups completely unsatisfactory. The fact that multiparty systems emerged as the class cleavage expanded supports this point: rather than desert leftist parties for the most-preferred of the remaining parties standing a better chance of winning seats, most working class voters would find liberal and conservative parties completely unacceptable representatives of their interests, and therefore would never vote tactically for either party (and likewise among most bourgeois/upper class voters). To demonstrate this point, however, further research must rule out another explanation holding that voters do not desert third parties because they lack accurate information about the parties’ chances of winning (Cox, 1997: 79; Blais and Turgeon, 2004; Clough, 2007). While some recent research casts doubt on this second argument (Raymond and Tromborg, 2014), further research is needed to sort out which of these two arguments best explains non-tactical voting behaviour, even if the survey data needed to test such arguments are available only for recent
elections.
References


Table 1: The Determinants of Mean District-Level Party System Fragmentation

<table>
<thead>
<tr>
<th>Independent Variables</th>
<th>Models</th>
<th>1 (Jackknifed SEs)</th>
<th>2 (Random Intercepts)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Occupational Diversification</td>
<td></td>
<td>0.50**</td>
<td>0.48**</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(0.13)</td>
<td>(0.09)</td>
</tr>
<tr>
<td>PR Systems</td>
<td></td>
<td>-3.45**</td>
<td>-3.53**</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(0.77)</td>
<td>(0.57)</td>
</tr>
<tr>
<td>Occupational Diversification x PR Systems</td>
<td></td>
<td>0.77**</td>
<td>0.81**</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(0.15)</td>
<td>(0.12)</td>
</tr>
<tr>
<td>Multimember Districts</td>
<td></td>
<td>1.93**</td>
<td>1.89**</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(0.52)</td>
<td>(0.39)</td>
</tr>
<tr>
<td>Occupational Diversification x Multimember</td>
<td></td>
<td>-0.23*</td>
<td>-0.24*</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(0.12)</td>
<td>(0.10)</td>
</tr>
<tr>
<td>Majority System</td>
<td></td>
<td>0.95**</td>
<td>0.91**</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(0.33)</td>
<td>(0.34)</td>
</tr>
<tr>
<td>Occupational Diversification x Majority System</td>
<td></td>
<td>-0.27**</td>
<td>-0.25**</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(0.09)</td>
<td>(0.09)</td>
</tr>
<tr>
<td>Intercept</td>
<td></td>
<td>-0.13</td>
<td>-0.06</td>
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<tr>
<td></td>
<td></td>
<td>(0.40)</td>
<td>(0.45)</td>
</tr>
<tr>
<td>( \sigma ) Intercept</td>
<td></td>
<td>-</td>
<td>0.80**</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(0.24)</td>
</tr>
<tr>
<td>( \sigma ) Residual</td>
<td></td>
<td>-</td>
<td>0.28**</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(0.02)</td>
</tr>
<tr>
<td>F/Chi(^2)</td>
<td></td>
<td>120.17**</td>
<td>1080.81**</td>
</tr>
<tr>
<td>Adjusted R(^2)</td>
<td></td>
<td>0.91</td>
<td>-</td>
</tr>
</tbody>
</table>

* \( p < 0.05 \), ** \( p < 0.01 \), one-tailed tests. \( n = 147 \). Standard errors in parentheses. Country dummies used in model 1 are omitted.
Figure 1: Mean District-Level Party System Fragmentation (ENEP) over Time in Each Country

Note: horizontal reference lines are given for ENEP = 2. Dashed vertical reference line is given to indicate when Norway adopted its majority system, while solid vertical reference lines are given to indicate the year PR first went into effect (except in the United Kingdom).
Figure 2: Occupational Diversification over Time

Dashed vertical reference line is given to indicate when Norway adopted its majority system, while solid vertical reference lines are given to indicate the year PR first went into effect (except in the United Kingdom).
Figure 3: Predicted Party System Fragmentation across the Range of Occupational Diversification

Note: dashed lines represent 90% confidence intervals, with a reference line at ENEP = 2.
Because district-level data for Italy and Switzerland were not available, I use the lowest levels of aggregation (*regioni* and *cantons*, respectively) for which data were available. However, the results presented here do not change if these countries are excluded from the regression models.

To provide a more conservative measure of ENEP in the Netherlands, where there is only one district following the adoption of PR, I take the mean value of ENEP at the *kamerkieskringen* level (at which level party lists are established). The results treating the Netherlands as a single district from 1918-on are nearly identical to those presented here.

The results are robust to the use of an alternative measure of two-party dominance, namely, the (mean) percentage of votes going to parties placing third or worse in each district. Results using this measure show that increasing class diversity yielded vote shares for parties placing third or worse that were significantly greater than zero. Another popular measure proposed to test aspects of Duverger’s Law—Cox’s (1997) S-F Ratio, which measures the ratio of third- and second-placed parties’ vote shares (in turn allowing us to measure the degree of tactical voting across districts)—does not allow us to infer about the overall size of the party system, and therefore is not used here.

While linear interpolation makes the use of time-series methods problematic (as linear interpolation makes occupational diversification dependent upon time by definition), the relationship between occupational diversification and ENEP seen in Table 1 remains positive and significant after these two variables are de-trended.

Rather than controlling for federalism as a separate variable, this approach accounts for the effect of federalism that might lead to the development of multiparty systems (e.g. Chhibber and Kollman, 2004; Gaines, 1999). Additionally, because dynamic measures of other cleavages (ethnic, religious, etc.) are not readily available for the period under study, this
approach captures country-specific variance that static measures of ethnic or religious fragmentation would estimate.

6 Random coefficients models allowing for variation in the effect of occupational diversification could not be estimated due to the small number of countries.

7 In order to determine whether the time-ordering of this relationship is correctly specified (i.e. that increases in occupational diversification produce increases in party system fragmentation, and not the other way around), I re-estimated both models using lagged occupational diversification. The results using this approach confirm the results presented here.

8 Consistent with previous research, the effect of occupational diversification is stronger in PR systems; combining the effects of PR and multimember districts shows that high levels of occupational diversification produce larger party systems in elections held under PR with multimember districts than FPTP systems. While the partial effect of majority systems is positive, the negative interaction term defies the expectations of previous research. Although it is beyond the scope of this paper to explore this finding fully, this finding suggests that the threat of a second ballot in majority systems may have done a better job of forcing inter-party cooperation than FPTP systems. When incentives for voters to vote tactically break down (Cox, 1997: chapter 4), the fact that parties in FPTP systems can win with only a plurality may give parties incentives not to cooperate.