

Acting Right? Privatization, Encompassing Interests, and the Left

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Abstract

I present a theoretical account of the politics of privatization that predicts left-wing support for the policy is conditional on the proportionality of the electoral system. In contrast to accounts that see privatization as an inherently right-wing policy, I argue that, like trade policy, it has the feature of creating distributed benefits and concentrated costs. Less proportional electoral systems create incentives for the Left to be responsive to those who face the concentrated costs, and thus for them to oppose privatization more strongly. More proportional systems reduce these incentives and increase the extent to which distributed benefits are internalized by elected representatives. Hypotheses are derived from this theory at both the individual and macro-policy level, and then tested separately. Quantitative evidence on public opinion from the 1990s and privatization revenues from Western European countries over the period 1980–2005 supports the argument.

Privatization, defined here as the sale of state-owned enterprises (SOEs),¹ is a phenomenon that has swept much of the world in the past 30 years. The process has been particularly striking across the so-called ‘developed democracies’, which have seen a post-war consensus regarding the benefits of state ownership erode sharply (Boix 1997). Between 1980 and 2004, privatization revenues across 11 West European countries totalled around \$380 billion.² At root, I argue that privatization has had two important characteristics that shaped the political processes that underpinned it. First, it has been associated with improved economic performance making it a potentially attractive policy choice for governments. Second, it has also been associated with the imposition of significant costs in terms of labor redundancies, employment reforms, and other associated ‘efficiencies’. This latter feature is particularly important politically because these costs are very often concentrated disproportionately on elements of the traditional left-wing coalition. Where electoral systems reduce the incentive for, especially, left-wing parties to respond to these constituencies facing concentrated costs, there is a greater likelihood that the benefits of improved economic performance will weigh more heavily in political decision-making — and thus that privatization will be a less party-political act.

This paper makes two contributions to the literature. First, it provides a rather distinctive theoretical approach to the study of privatization politics, for which the traditional position has been to view it as an inherently right-wing policy. Rather than assuming it should be placed at a particular point of an ideological spectrum, I build a theory that is grounded in the material costs and benefits of the policy to different constituencies and the electoral incentives of their representatives.³ One contribution of this paper, then is to add to a broader literature that has begun chipping away at some of the common views of public policies as exhibiting particular ideological traits. Examples of this development

¹This definition follows Megginson and Netter (2001) in their survey of the empirical literature. To clarify, the term privatization is used, here, exclusively to refer to the sale of SOEs, not to out-sourcing, private-finance, and other related activities which have grown in recent years. I make this distinction both because it seems plausible to think that the political implications of these different types of privatizing activity may be different, and for the pragmatic reason that the data I have available correspond to the tighter, SOE, conception.

²My own calculation based on data provided by *Privatization Barometer*. Included countries are: Austria, Belgium, Denmark, Finland, France, Germany, Ireland, Italy, Netherlands, Sweden, and the UK.

³In this way, I follow a venerable tradition in political economy that derives policy preferences from materialist interests and then aggregates these into partisan strategies (e.g. Alvarez, Garrett, and Lange 1991; Häusermann 2010; Iversen and Stephens 2008; Rueda 2005).

include work studying when, how, and why left-wing parties have used markets rather than state provision for the supply of public services to advance their goals (e.g. Gingrich 2011; Hicks 2013; Klitgaard 2008). Second, it provides a methodological advance to the modeling of macro-level privatization by showing that it is important to take account of the prevailing size of the SOE sector when studying how much privatization is conducted. While it may seem trivial to note that there can be little surprise at lower levels of privatization revenues when there is less available to privatize, the previous literature has ignored this point.

An existing literature has studied the specific question of whether left-wing parties are associated with lower privatization effort, but before outlining that literature, it is helpful to show why the simple partisanship story may not be correct. Figure 1 presents a scatter plot of the mean share of cabinet seats held by left-wing parties against the left-wing share of privatization revenues,⁴ with the areas of country identifiers scaled by total privatization revenues for each country. Thus, deviation from the marked 45° degree line indicates whether the left has privatized more or less than what might be considered their ‘fair’ share on the basis of cabinet control during the period. First, if there were a tendency for left-wing parties to privatize less than other parties, we would expect countries to cluster more in the bottom right portion of the figure, where left-wing cabinet strength is larger than the share of revenues attributable to them. Clearly, the data do not conform to this pattern. Privatization is not an exclusively right-wing policy as left-wing parties have been responsible for privatization revenue shares ranging from negligible to the vast majority. Second, as shown by the sizes of the country identifiers, it does not appear to be the case that those countries where left-wing parties are stronger are the ones that have experienced less privatization (e.g. Greece and Sweden) as might be expected if right-wing parties felt constrained not to privatize in order to pander to the Left.

Several other scholars have analyzed political issues surrounding privatization, but there has been disagreement over whether left-wing parties are related to lower levels of privatization. Boix (1997), Zohlnhöfer, Obinger, and Wolf (2008), and Obinger, Schmitt, and Zohlnhöfer (forthcoming) find statistically significant negative effects while Bortolotti, Fan-

⁴The left-wing share of privatization revenues is calculated as the sum of privatization revenues in each country-year, weighted by the left-wing share of cabinet seats in each country-year, and then divided by total country privatization revenues. See the discussion in section 3 for more details of data and sources.

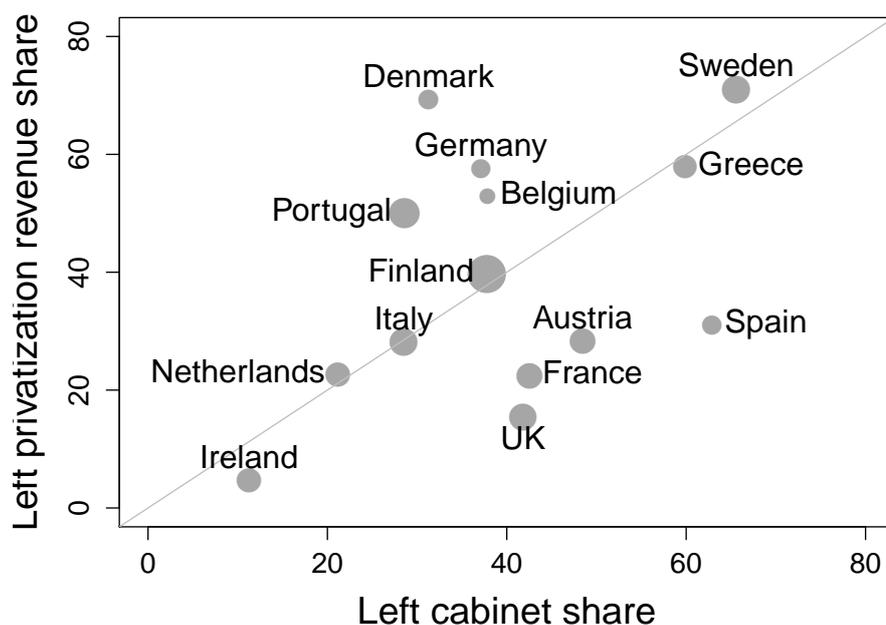


Figure 1: Scatter plot of the mean share of cabinet seats held by left-wing parties against the left-wing share of privatization revenues. The areas of country identifiers are scaled by total privatization revenues for each country. All figures are calculated for the period 1980–2004. See footnote 4 for details.

tini, and Siniscalco (2003), Bortolotti and Siniscalco (2004), Henisz, Zelner, and Guillén (2005), and Schneider, Fink, and Tenbucken (2005) largely find no effects. I argue that the empirical literature has failed to come to a firm conclusion regarding the effect of left-partisanship on privatization because earlier scholars have effectively estimated partisanship parameters that are averages for the effect of left-wing parties that are both for and against privatization. In this light, it is unsurprising that the estimated effects are often small or insignificantly different from zero.

There has been some work, both theoretical and empirical, that studied the tactical and strategic logics underpinning privatization programs. Feigenbaum and Henig (1994) proposed a three-way typology of the underlying reasoning for privatizations with “pragmatic” privatizations essentially technocratic in nature, “tactical” privatizations explicitly political, and “systemic” privatization programs “intended to reshape the entire society by fundamentally altering economic and political institutions and by transforming economic and political interests” (Feigenbaum and Henig 1994, 192). While this typology is attractive

in the abstract, it provides little in the way of predictive theoretical traction.

Studying South American privatization programs, Murillo (2001) provides a theory to explain the resulting interactions between left-wing parties and labor unions. She argues that the critical explanatory factors in that region were the competition among left-wing parties for votes and the competition among unions for members. The theory, however, is premised on the idea that unions face great uncertainty about the effects of privatization and can come to trust left-wing parties not to hurt them unnecessarily. This uncertainty may have been the case in South America, but much of the privatization experience in Western Europe in the 1990s was informed by outcomes in earlier adopters and it is difficult to conclude that unions would not have foreseen the implications of privatization for their membership.

Despite a fairly large literature, then, there are reasons to think that the treatment of partisan influences over privatization has been under-examined. Consequently, I seek to advance the literature in this area, and do so by offering a theory of conditional partisanship rooted in the preferences of left-wing parties.⁵ However, this paper also distinguishes itself from previous studies in at least two further ways. The theoretical account that I develop leads to hypotheses at both the individual level and the macro-policy level. I test these hypotheses separately, and so provide evidence supporting both the ‘micro foundations’ of my argument and the macro implications of it. Finally, in testing the macro-level implications, I develop a more realistic empirical specification than has been used before by taking seriously the idea that privatization opportunities are likely to be limited by the size of the SOE sector itself.

1 Theory

The theory presented here rests on the idea that privatization is a phenomenon characterized by distributed benefits and concentrated costs. The distributed benefits of privatization have tended come in the form of increased productivity and improved service. Meanwhile, the concentrated costs that accompany this have tended to come in the form of job losses

⁵See Franzese (2007) for a more general discussion of this kind of context conditionality.

in privatized companies and sectors. My claim, developed in detail below, is that the interaction of the representation of these distributed and concentrated interests with party politics leads to differing patterns of the politics of privatization.

1.1 Distributed Benefits and Concentrated Costs of Privatization

Two broad mechanisms through which privatization of state-owned enterprises bestows economic benefits have been proposed: ownership and competition. The consensus view, however, would seem to be that the latter is the more important, but is often facilitated by a change to the private version of the former.

Early work argued that it was state ownership itself that reduced economic performance as a result of politicians seeking to maximize something other than corporate profits — such as employment (e.g. Boycko, Shleifer, and Vishny 1996; Pint 1991). Empirical support for this general claim has been provided by a number of studies (e.g. Boardman and Vining 1989; D’Souza and Megginson 1999; Ehrlich et al. 1994; Vining and Boardman 1992). Dewenter and Malatesta (2001) partially questioned this reasoning by showing that corporate performance gains appear to have been realized in the years before the actual privatization occurred. However, deliberate pre-privatization reorganization was common, suggesting that privatization may have been causally related to performance gains even in these circumstances. A second line of reasoning focuses on competition as the cause of increased economic performance.⁶ The sell-off of SOEs has often been associated with the introduction of more competitive environments for previous state-owned monopolists. Empirical support for this view is found by Alexandre and Charreaux (2004) and González-Páramo and Hernández de Cos (2005). The failure or inability to control for competition can also explain why some other studies found no effect from state ownership itself (e.g. Kole and Mulherin 1997).

Of course, the manifestation of the concentrated costs of privatization is in many ways the corollary of those efficiency gains. A common theme in the theoretical literature is that politicians will tend to have a greater concern for employment levels than is economically

⁶See Nickell (1996) for empirical evidence relating competition to economic performance more generally.

efficient (e.g. Boycko, Shleifer, and Vishny 1996; Pint 1991). Robinson and Torvik (2005) make theoretical claims regarding the construction of ‘white elephants’ that are socially inefficient, but politically useful. They argue that particular constituencies will gain employment to operate these ‘white elephants’. In either case, if politicians tend to over-hire when they control state-owned enterprises, it follows that privatization will see redundancies as that excess labor is shed by private sector managers who are answerable to shareholders seeking profit maximization.

A cursory look at figures on employment changes for several prominent sectors during the privatization period suggests that redundancies have been an important feature of the process. Schulten, Brandt, and Hermann (2008, Table 2) provide data on employment changes for the electricity, gas, postal, and rail sectors across EU member states, and show that they vary from reductions of 12% to 40% for the period 1995–2004.⁷ Taking just the prominent case of the privatization of British Telecom (BT), it is also possible to get a sense of the magnitude of changes that occurred. Florio (2003, 222) provides data showing that the average number of employees in the company dropped from around 240,000 in the 1980s to 160,000 in the 1990s. While the specific timing of this change suggests that it was not privatization *per se*, it is far from clear that the shift to a stricter regulatory environment — that both sought to encourage competition and recognised BT’s dominant market position — would have occurred otherwise.⁸

Given this evidence, it is unsurprising that the pattern of general empirical results with respect to the effect of privatization on employment is fairly consistently negative — albeit coming from a smaller literature. While the evidence of Alexandre and Charreaux (2004) is somewhat weaker, D’Souza and Megginson (1999), Dewenter and Malatesta (2001), González-Páramo and Hernández de Cos (2005), and Schmitt (forthcoming) all find significant reductions in employment in privatized firms. At least some of the productivity gain from privatization appears to come from a reduction in the amount of labor for production in previously state-owned enterprises.

⁷In fact, the 12% figure is only for 2000-2004, and so likely an under-estimate compared to the others.

⁸The work of David Newbery and collaborators on market structures and regulations in the British electricity is also of relevance here. He finds that privatization and competition enhanced productivity, but the specifics of the process have distributive implications (e.g. Newbery and Pollitt 1997).

1.2 The Representation of Interests

The argument that I now develop links this pattern of distributed benefits and concentrated costs to partisan politics. I do so in a way that yields implications at both the level of individual preferences and of macro level policy outcomes. The question is: under what patterns of interest representation should we expect the concentrated costs to dominate the policy-making process, as opposed to the distributed benefits? That is to say, under what pattern of interest representation should we expect more privatization?

I suggest that an answer to these questions can be found in the different incentives that electoral systems provide to politicians to respond to concentrated versus distributed constituencies. Indeed, the theory that I propose is essentially a re-application of a prominent argument that developed in the trade literature. Various scholars have argued that small states that are dependent on freer trade benefit from the encompassing nature of interest representation as it limits the influence of narrow anti-trade interests (e.g. Katzenstein 1985; Rogowski 1987).⁹ Trade, it is argued, exhibits the features of concentrated costs (e.g. Mayda and Rodrik 2005; Scheve and Slaughter 2001) and distributed benefits, making the extent to which organized interests internalize the latter of key importance in determining their support for openness (Olson 1982).

The logic expressed by Rogowski is of particular relevance as he argues that proportional electoral systems yield a set of incentives for politicians to “resist protectionist pressures” and enables them to ignore demands for “the extraction of rents by particular firms, classes, or sectors” (Rogowski 1987, 207–208). At the core of the argument is the idea that concentrated interests will hold great sway over elected representatives for whom they form a large proportion of the electorate — and that this is far more likely for single-member districts than for (more electoral proportionality-inducing) multi-member districts. This characterizes the politics of concentrated interests, but an equivalent argument applies, of course, to the distributed interests. The benefits of trade are diffuse and small for any particular (geographic) constituency, which reduces the incentive of any single political representative

⁹See also Lohmann and O’Halloran (1994), Milner (1997, Chapter 2), and Phelan (2011) for further statements of this logic with respect to trade, as well as Weingast, Shepsle, and Johnsen (1981) and Persson and Tabellini (2005) for arguments relating electoral systems to incentives for politicians to represent concentrated interests.

to consider them salient. As the constituency represented by politicians gets larger, they come to encompass more of these diffuse benefits, making them more likely to be politically valued. Indeed, Rogowski (1987, 208) takes this general logic to be “almost self-evident”.

Rogowski’s theory goes as far as an argument that proportional representation was deliberately chosen by small open economies because of these features, but it makes no sense to go this far when applying it to privatization. However, it does follow rather naturally that the features of electoral proportionality that make it conducive to greater trade openness will also make it conducive to the adoption of privatization as a policy. The sale of SOEs entails concentrated costs that more narrowly geographically-oriented representatives will find it difficult to ignore, and distributed benefits that they will find it all too easy to ignore. In more proportional systems, such incentives are considerably undermined.

One way in which privatization policy should be distinguished from trade policy is in the partisan implications of these benefit versus cost incentives.¹⁰ It is commonplace to consider that left-wing parties disproportionately tend to represent those who are most exposed to the costs of privatization — those employed in the public sector (e.g. Knutsen 2005). By contrast, the standard partisan view sees parties of the right as the representatives of capital and generally of upscale groups (Hibbs 1977) — those who can be thought to face few of the costs but many of the benefits of privatization. The consequence of this partisan view is that there is much less reason to think that the impact of electoral proportionality will be felt by parties of the Right than parties of the Left. Parties of the Right tend not to represent the interests of the losers from privatization anyway, so the electoral system incentives are of limited relevance to them. For the Left, the electoral system has the capacity to reorient their incentives from disproportionately representing the losers of privatization to representing a broader section of the electorate. To be clear, my argument is far from a claim that privatization will be uncontroversial and consensual in such systems. Privatization losers and their (relatively fewer) representatives are very likely to try to block sell-offs, but their ability to do so will be in the face of relative acceptance by other parts of the Left who can internalize more of the benefits of privatization. Assuming that parties respond in

¹⁰Milner and Judkins (2004) do estimate an interaction effect between parties’ left–right position and the electoral system when predicting trade policy positions.

policy terms to these varying incentives, this discussion immediately leads to the following hypothesis.

Hypothesis 1 *Higher levels of electoral proportionality will tend to reduce the difference between left-wing parties and other parties in terms of privatization effort.*

This hypothesis relates to macro policy outcomes, but the theory can also be used to yield an individual-level implication that is testable. To the extent that political elites have a role in shaping the specific policy preferences of those that they represent, the electoral system should also be expected to have an impact on individual level preferences. Lenz (2009) has influentially argued that this kind of opinion leadership is important as voters have a tendency to adopt the policy positions of their preferred party. Indeed, Durant and Legge (2001) have already found an impact of political leaders on privatization preferences. This implies the next hypothesis.

Hypothesis 2 *Privatization will, other things equal, be more popular amongst voters identifying with left-wing parties in more proportional electoral systems than in less proportional electoral systems.*

Having developed these hypotheses, I now move to test them. In the next section, I focus on hypothesis 2, relating to individual level preferences. In the following section, I go on to test hypothesis 1, relating to macro-level policy choices.

2 Individual-Level Privatization Preferences

To test the individual level hypothesis, it is necessary to use cross-national survey data to take advantage of variation in electoral proportionality.¹¹ Several surveys have asked questions about preferences regarding privatization of SOEs, but for my purposes, the ‘Role of Government’ module from the International Social Survey Program (ISSP) in 1996 is ideal. It provides an identical question across many countries at a time when privatization was a prominent policy option. Furthermore, responses are cross-nationally comparable as

¹¹Previous work on privatization opinion in Europe has tended to focus on single countries (e.g. Durant and Legge 2001, 2002).

respondents were effectively asked about their preferred ‘level’ of privatization, not whether they wanted more or less compared their respective national status quo. Specifically, respondents were asked, ‘Do you think [...the electricity sector] should mainly be run by private organisations or companies, or by government?’. As an industry that was largely publicly-owned, it provides a useful testing ground for the theoretical predictions of the model.¹² I code *PrivElec* as a binary variable equal to 1 for responses of ‘Mainly run by private organisations’ and equal to 0 for responses of ‘Mainly run by government’, and take this measure as my dependent variable.¹³

On the explanatory variable side, to test hypothesis 2, I require individual-level measures of party identification and macro measures of electoral proportionality. For the former, I use a 5-point scale from the ISSP survey that codes people into the following categories on the basis of their response to party affiliation questions: “far right”, “right, conservative”, “center, liberal”, “left, center left”, and “far left”. To maintain degrees of freedom, I use this as an interval scale (*IdLeft*) and so take advantage of its natural ordinal nature.¹⁴ For electoral proportionality, I use the standard Gallagher (1991) least-squares disproportionality index subtracted from 100 such that it becomes a proportionality index (*PR*).¹⁵ The hypothesis implies the existence of an interaction effect (*IdLeft* · *PR*) such that greater proportionality reduces the size of the effect from party affiliation.

Finally, I employ control variables for which their exclusion may lead to questions regarding the theoretically relevant inferences.¹⁶ Specifically, I use age (*Age*), years of education (*EducationYears*), an indicator of union membership (*Union*), an indicator of public-sector employment (*PubSector*), and within-country standardized income (*Income*).¹⁷

¹²Respondents were also asked about hospitals and banks, but I suggest that these are less appropriate as a cross-nationally comparable proxy for general privatization views. In short, hospital ownership has seen a long and politically consequential divergence across countries (e.g Hicks 2013). Meanwhile, private ownership of banks was a rather consensual position in the mid-1990s — which is confirmed in the ISSP data.

¹³I exclude those who “can’t choose” or “don’t know”.

¹⁴The findings are essentially unchanged if “far left” and “far right” respondents are excluded.

¹⁵I reverse the index simply so that it matches with the way the theory and hypotheses are framed. Data from Armingeon et al. (2012).

¹⁶My criteria are non-subjective measures that have been used in the previous literature.

¹⁷*Income* is calculated as the respondent’s household income as a proportion of the maximum household income within the same country.

2.1 Results

Table 1 presents the results of estimating a series of multilevel logit models that are used to test the hypothesis. A multilevel model is used to account for the fact that individuals are nested within countries. Initially, the only second level predictor is *PR*, which reflects both the theoretical importance of this variable and the fact that I only have 11 observations at this level, and so very reduced degrees of freedom.¹⁸ Subsequently, I introduce additional second-level predictors to demonstrate the robustness of the initial findings.

	(A1)			(A2)			(A3)		
	b	se	p	b	se	p	b	se	p
eq1									
<i>PubSector</i>	0.67	0.050	0.00	0.67	0.050	0.00	0.67	0.063	0.00
<i>Income</i>	1.59	0.205	0.00	1.59	0.205	0.00	1.59	0.241	0.01
<i>Education</i>	1.01	0.009	0.17	1.01	0.009	0.12	1.01	0.008	0.10
<i>Age</i>	0.99	0.002	0.00	0.99	0.002	0.00	0.99	0.005	0.04
<i>Union</i>	0.78	0.056	0.00	0.79	0.056	0.00	0.79	0.072	0.02
<i>PR</i>				0.94	0.031	0.06	0.94	0.027	0.06
<i>IdLeft</i>	0.61	0.020	0.00	0.17	0.063	0.00	0.17	0.127	0.04
<i>IdLeft · PR</i>				1.01	0.004	0.00	1.01	0.009	0.14
N	5760			5760			5760		
N countries	11			11			11		
χ^2	374.7			378.3					
Log likelihood	-3518.3			-3511.9			-3511.9		

Table 1: Multilevel logit models of support for privatization of the electricity sector across a sample of developed democracies. Odds ratios presented in first column, standard errors, and p-values adjacent. Standard errors for A3 are calculated using a country-level jackknife procedure. (Source: ISSP 1996.)

Looking first to the control variables, they each perform well and their effects are extremely stable across all model specifications. The coefficients are presented in odds-ratio form, so that inferences are based on values greater or less than 1. I find evidence that younger respondents are more favorable to privatization, although the effect is fairly small. Similarly, more educated respondents are also more favorable, but with a small size of effect. Taken with the finding that those with higher incomes are more favorable, a natural

¹⁸The cross-national constraint comes from the combination of ISSP country coverage and the desire to focus on advanced industrialized democracies. Switzerland has no data for *PrivElec*, Australia no data for *Union*, Italy no data for *IdLeft*, and Spain no data for *IdLeft* and *Education*. This leads to a sample formed of data for: Canada, Cyprus, France, Germany, Ireland, Japan, New Zealand, Norway, Sweden, the UK, and the USA. Estimates that include Australia by dropping *Union* provide even stronger support for the hypothesis — an effect that is driven by the inclusion of Australia rather than the exclusion of *Union*.

interpretation of each may be that the career risk associated with privatization is lower for these groups.

Turning to the inferences of relevance to the hypothesis, the evidence is strongly supportive. Model A1 provides a baseline specification without PR . Model A2 provides the basic test of hypothesis 2, with the results indicating that the expected positive interaction of $IdLeft \cdot PR$ is present and statistically significant. Model A3 provides country-jackknifed estimates of standard errors for the same specification as model A2. The interaction effect drops somewhat below conventional levels of statistical significance, but this is in the context of a cross-national N of only 11. Nonetheless, this provides a note of caution on the inference — one that the more robust macro-level results go some way to alleviating in that they are estimated using a larger cross-national sample and yield no such robustness questions.

Notwithstanding these initial supportive results, it would be reasonable to question whether the cross-national variation in the influence of left–right party identification is really caused by electoral proportionality, rather than some other correlated aggregate variable. With the small country- N , there are limits to how far the data can be pushed in this area. However, table 2 provides evidence that lends more support for the causal importance of the electoral system.

One concern may be that the effect does not run through proportionality as such, but rather the features of the party system that results from the electoral system. A larger number of parties may lead to a reduced impact of $IdLeft$ on privatization preferences as the dimensionality of electoral competition is allowed to expand beyond the traditional left–right spectrum. As proportionality is associated with a greater number of parties, the effects estimated in table 1 may capture the wrong mechanism. However, model A4 indicates that this concern is unfounded. When the interaction of $IdLeft$ and the effective number of parties ($Parties$) is included together with the PR interaction,¹⁹ it is only the latter that is statistically significant and has an effect in the correct direction.

Another concern may be that the concentrated costs associated with privatization may be ameliorated by welfare state and labour market policies that are, themselves, correlated

¹⁹ $Parties$ is taken from Armingeon et al. (2007).

	(A4)			(A5)			(A6)		
	b	se	p	b	se	p	b	se	p
eq1									
<i>PubSector</i>	0.67	0.050	0.00	0.69	0.054	0.00	0.69	0.054	0.00
<i>Income</i>	1.58	0.204	0.00	1.58	0.209	0.00	1.58	0.209	0.00
<i>Education</i>	1.01	0.009	0.13	1.01	0.010	0.37	1.01	0.010	0.42
<i>Age</i>	0.99	0.002	0.00	0.99	0.002	0.00	0.99	0.002	0.00
<i>Union</i>	0.79	0.056	0.00	0.77	0.057	0.00	0.78	0.058	0.00
<i>PR</i>	0.96	0.034	0.20	0.96	0.025	0.10	0.96	0.025	0.08
<i>IdLeft</i>	0.16	0.061	0.00	0.26	0.113	0.00	0.15	0.059	0.00
<i>IdLeft · PR</i>	1.02	0.005	0.00	1.01	0.004	0.00	1.02	0.004	0.00
<i>Parties</i>	0.71	0.302	0.42						
<i>IdLeft · Parties</i>	0.94	0.057	0.34						
<i>SocExp</i>				1.01	0.035	0.71			
<i>IdLeft · SocExp</i>				0.98	0.006	0.01			
<i>ALMP</i>							1.17	0.393	0.64
<i>IdLeft · ALMP</i>							0.81	0.048	0.00
N	5760			5284			5284		
N countries	11			10			10		
χ^2	380.0			353.3			358.4		
Log likelihood	-3510.6			-3263.5			-3260.1		

Table 2: Multilevel logit models of support for privatization of the electricity sector across a sample of developed democracies. Odds ratios presented in first column, standard errors, and p-values adjacent. (Source: ISSP 1996.)

with electoral proportionality. Where the welfare state is more generous to those who are unemployed, or where there is more extensive expenditure on active labour market policies (ALMP) aimed at placing such people in new employment, one may reasonably think that privatization would be less politically divisive. However, model (A5) demonstrates that the estimated effect of *PR* does not run through social expenditure.²⁰ In fact, when controlling for the *PR* interaction effect, higher levels of *SocExp* actually make the effect of *IdLeft* stronger, not weaker. The same story is true when focusing specifically on expenditure that has the aim of facilitating re-employment (*ALMP*).²¹

Before moving on to test the macro-level hypothesis, figure 2 illustrates the magnitude of the conditioning effect of *PR* on individual-level partisanship. It shows that the marginal effect of left-right party identification in the least proportional countries in the sample is estimated to be about twice the magnitude of that for the most proportional countries in

²⁰Measured as total social expenditure as a percentage of GDP and taken from Armingeon et al. (2007).

²¹Measured as a percentage of GDP and also taken from Armingeon et al. (2007).

the sample.

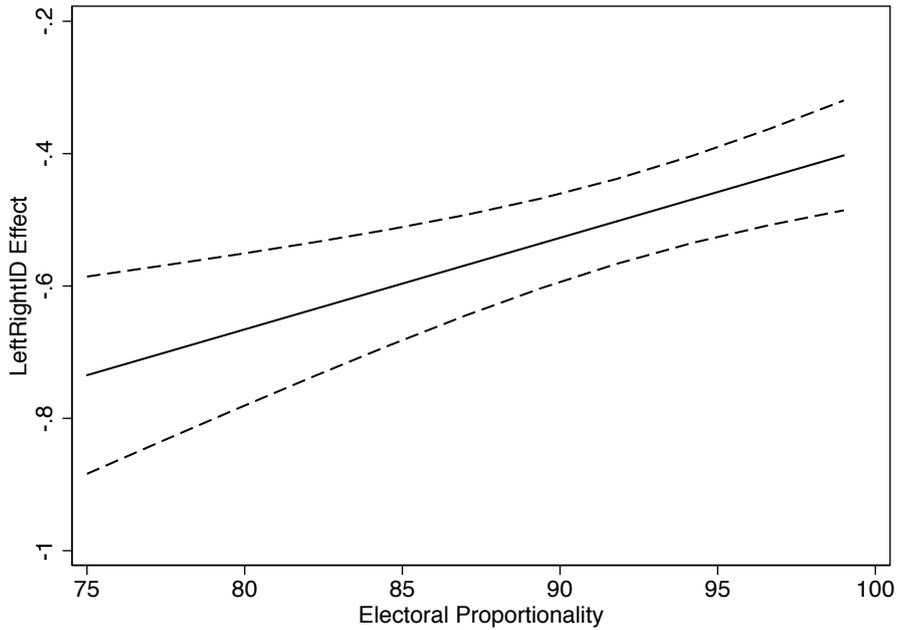


Figure 2: Marginal effect of individual-level left–right identification on privatization preferences, conditional on PR . Estimated from model (A2). 95% confidence intervals shown. The y-axis shows the marginal effect of a unit change in $IdLeft$, which itself ranges from 1 to 5.

3 Macro-Level Policy Outcomes

There is, then, good evidence to support the claim that the preferences of voters across countries are predictably influenced by prevailing electoral institutions. Given this initial support for the broad theoretical claim of this paper, I now turn attention to the hypothesis that relates to the actual policy choices of governments. Does this individual level pattern filter through into macro level policy outcomes? While the descriptive data presented in *figure 1* are suggestive, in this section, more systematic tests are conducted by estimating a series of time-series cross-section (TSCS) models.

3.1 The Dependent Variable

The dependent variable in all estimated macro-level models is the annual per capita privatization revenues for a country ($PrivRevPC_{i,t}$). This measure can be considered one of

‘privatization effort’ in that it directly controls for country size, thus avoiding the problem of large privatizations in large countries dominating the analysis. The data are drawn from the *Privatization Barometer* database²² and include all sales of SOEs during the sample period.²³ To have such an exhaustive data set available is very helpful but, as with so many social scientific measures, it is not perfect. Based on the theory outlined above, a measure of the amount of (left-leaning) labor embodied in the privatized enterprises would be more appropriate. Unfortunately, no such measure is available. Measuring the ‘size’ or ‘effort’ of privatizations according to the revenues raised may under- or over-state ‘true’ sizes as financial markets rise and fall, or even as politicians deliberately manipulate share pricing (e.g. Biais and Perotti 2002). Nonetheless, the measure used for privatization effort accords with much of the previous literature and is, arguably, the best available.

3.2 Explanatory Variables

Testing the argument advanced above requires a measure of left-wing government control to go with the measure of electoral proportionality (PR , as used above). To capture the former, I use the share of cabinet seats held by left-wing parties ($GovLeft_{i,t}$) as provided by Armingeon et al. (2007).²⁴ The decision not to use a partisanship measure that includes a component of left-right ideology for each party within it is deliberate. To the extent that various left-right ideology measures consider privatization to be inherently right-wing, they will tend to include a large component of the conceptual dependent variable within them. It would be very problematic for testing the theory here if left-wing parties that engaged in privatization were systematically coded as relatively more right-wing than those that did not. Note that testing hypothesis 1 requires assessing the interaction between $GovLeft$ and PR .

There is reason to believe that a number of other factors will have played an important

²²<http://www.privatizationbarometer.com/>

²³These sales may take the form of public offerings on stock exchanges or direct sales to existing private enterprises. The data include partial sales where only a fraction of the equity in an SOE is privatized. In these instances of partial sales, the year in which the revenue is raised is the year for which it is recorded. Privatization revenues are denominated in (constant) \$US for all countries.

²⁴To construct the measure, Armingeon et al. (2007) use a coding that denotes each party as ‘left-wing’, ‘center’, or ‘right-wing’. $GovLeft_{i,t}$ then measures the percentage of cabinet seats held by parties coded as left-wing in each country-year.

role in determining how privatization has developed across countries. I discuss them here and include them as control variables in order to allay concerns that my core theoretical inferences may be a result of omitted variable bias. I also show that the inferences are robust to the exclusion of these controls.

Public finances have been held to be relevant to privatization decisions. A poor financial situation, in the form of high public debt levels (Bortolotti, Fantini, and Siniscalco 2003) can create a need to privatize in the sense that the situation can be ameliorated by the revenues of a privatization program. Thus, I employ the $PublicDebt_{i,t-1}$ variable that measures accumulated public debt as a percentage of GDP.²⁵

Zohlnhöfer, Obinger, and Wolf (2008, 116) present data suggesting that there have been shifts in party positions between the 1980s and the 1990s. That is, some kind of trend in favor of privatization across countries and parties. In order to capture this possible development, I employ a count variable simply equal to the year of each observation ($Year_t$).

Policy diffusion is thought to be an important component of policy-making generally, and there is evidence that it has been important for privatization (Meseguer 2004; Schmitt 2011). Following Simmons, Dobbin, and Garrett (2006), four diffusion mechanisms are possible: ‘coercion’, ‘competition’, ‘learning’, and ‘emulation’. As they note themselves in their examples of the diffusion of liberalism, privatization would seem to be a prime candidate for competition- and learning-based diffusion. Following a similar approach to Henisz, Zelner, and Guillén (2005), I attempt to disaggregate some of these differing types of diffusion empirically and so estimate models with two variables capturing spatial lags with different weighting matrices. I estimate a model where the per capita privatization revenues in other countries are used as a predictor, and the weighting matrix, W^{Trade} , is composed of bilateral trade openness.²⁶ The logic is that countries that have stronger economic ties are expected to have a stronger impact on each other — either through competitive economic pressures or through increased channels of information diffusion as a result of those ties. Meanwhile, a second variable is constructed where the weighting matrix is composed of country pop-

²⁵The data are drawn from Armingeon et al. (2007). The measure is lagged by one period to help evade endogeneity issues.

²⁶More specifically, the elements of W^{Trade} are defined as: $w_{i,j}^{Trade} = (Imports_{i,j} + Exports_{i,j})/GDP_i$, where i denotes the ‘home’ country and j the ‘foreign’ country. This yields a variable, $Diffuse^{Trade} = W^{Trade} \cdot PrivRevPC$.²⁷ Trade data are drawn from Barbieri, Keshk, and Pollins (2009).

ulations. This produces a variable $Diffuse^{Pop} = W^{Pop} \cdot PrivRevPC$.²⁸ The expectation is that larger countries may have a stronger impact on others through a variety of possible channels, including emulation (due to higher prominence of larger countries) or competition. The latter may operate as larger newly-privatized enterprises tend to emerge from larger countries, and these may pose a greater threat of entry into international markets — perhaps due to greater access to capital.²⁹

On the substantive grounds that diffusion is unlikely to be instantaneous and the methodological grounds that inclusion of the contemporaneous spatial lag creates an endogeneity problem (Beck, Gleditsch, and Beardsley 2006, 40), a lag of one period is introduced.³⁰ The rows of W are not standardized as this has substantive consequences that are unwarranted (Plümper and Neumayer 2010). Using $Diffuse^{Trade}$ as the example,³¹ to do so would imply that it is the volume of trade between country A and B relative to that for A and C that matters, not the absolute magnitude of trade between A and B . This does not accord with the theory that economic ties are the source of diffusion. If trade between A and B and between A and C is very low, we should expect diffusion to be correspondingly low.

In terms of a government’s ability to privatize, Bortolotti, Fantini, and Siniscalco (2003) suggest that a “deep and liquid stock market” is an important consideration. As large portions of privatization programs across many countries have been pursued by public offerings on stock markets, the capacity of those markets to provide the required capital is likely to have been an important constraining consideration for governments. To control for this, I employ a variable corresponding to the total stock market capitalization within a country, per capita ($MktCapPC_{t-1}$).³² The measure is per capita so as to avoid the issue of larger countries having larger stock market capitalizations, but correspondingly larger capital requirements for their privatization programs. Again, the variable is lagged to try to avoid an endogeneity problem.

²⁸ $Diffuse^{Pop}$ has: mean=22.9 and standard deviation=20.6.

²⁹Following the finding of Franzese and Hays (2007) regarding the acceptable performance of spatial OLS, I do not adopt a more complex spatial estimator. Most particularly, they find that spatial OLS actually biases against substantive findings for nonspatial factors (Franzese and Hays 2007, 156), so this modeling choice provides a more difficult, not easier, test of my theory.

³⁰The inferences are unaffected for any lag up to five years, which is the most I tested for.

³¹With a similar logic applying to $Diffuse^{Pop}$.

³²The data are drawn from *Global Financial Data*.

Boix (1997) suggests that legislatively weaker governments will be less able to pursue privatization programs as the chance of them being blocked from doing so would be higher. In order to capture this, I employ a variable measuring government fractionalization ($GovFrac_{i,t}$), calculated as the probability of two randomly drawn legislators from the governing coalition being from different parties.³³ The expectation is that weaker and more divided governments will find it more difficult to privatize.

3.3 Modeling Techniques and Issues

The question arises of how to model the dependent variable. I follow Bortolotti and Siniscalco (2004) in using country-years as the unit of observation and estimating tobit models. This takes account of the fact that a value of 0 for the $PrivRevPC_{i,t}$ variable can correspond to a government being only very marginally against privatization and one being overwhelmingly against it — i.e. the censored nature of the variable. However, I go beyond earlier studies by taking account of the fact that different countries will have, at any given time, different stocks of SOEs that are available for privatization. That is to say, it would be desirable to employ a variable in the models that captures the size of the SOE sector available for privatization. Low privatization levels are hardly surprising if there is nothing to privatize. Furthermore, one may reasonably suspect that the size of the SOE sector may be correlated with electoral systems because majoritarian countries tend to be less favorable to state intervention in general, so it is all the more important for my theoretical purposes to deal with this issue carefully. Thus, the preferred equation to estimate would be,

$$PrivRevPC_{i,t} = \beta_0 + \beta_1 SOEPC_{i,t-1} + \beta \mathbf{Z} + \epsilon_{i,t} , \quad (1)$$

where $SOEPC_{i,t-1}$ is the lagged per capita size of the SOE sector for each country and $\beta \mathbf{Z}$ denotes vectors of other parameters and variables. The problem is that there are no reliable data for $SOEPC_{i,t-1}$. Noting that the current size of the SOE sector in a country depends

³³Taken from the World Bank Database of Political Institutions.

on the initial size of it and the amount that has been privatized already:³⁴

$$SOEPC_{i,t} \approx SOEPC_{i,0} - \sum_{\tau=0}^t PrivRevPC_{i,\tau} , \quad (2)$$

this can be substituted into (1) to yield,

$$PrivRevPC_{i,t} = \beta_0 + \beta_1 \left(SOEPC_{i,0} - \sum_{\tau=0}^{t-1} PrivRevPC_{i,\tau} \right) + \beta \mathbf{Z} + \epsilon_{i,t} . \quad (3)$$

This form has lower data requirements but not quite low enough as there are no reliable data on the size of the SOE sector that is commensurate with *PrivRevPC*, even for just an early point in time. To avoid this problem, I estimate a model of the form:

$$PrivRevPC_{i,t} = \alpha_i - \beta_1 \sum_{\tau=0}^{t-1} PrivRevPC_{i,\tau} + \beta \mathbf{Z} + \epsilon_{i,t} , \quad (4)$$

where $\alpha_i \equiv \beta_0 + \beta_1 SOEPC_{i,0}$ denotes country-specific intercepts, which have replaced the initial *SOEPC* levels. As these intercepts clearly pick up other time invariant factors that affect privatization revenues (β_0), they do not constitute estimates of *SOEPC*_{*i*,0}, but that is not important for my purposes.

3.4 Results

The results from estimating a series of models of privatization effort are presented in table 3. Models B1 and B2 are estimated as standard tobit models with country fixed effects — as per the specification derived above. Model B3 re-estimates standard errors using a country-level jackknife procedure as a way of assessing the cross-national stability of the estimates.³⁵ In general, the models perform rather well.³⁶ Across all three models, the parameter estimate for cumulative privatization revenues is negative and quite accurately estimated. It appears that the variable is indeed controlling for the remaining size of the SOE sector.

³⁴There is some variability on the valuation placed on privatized enterprises based on market conditions and other stochastic factors that make this relationship approximate.

³⁵Model B3 is estimated with country-level random effects, rather than fixed effects, due to technical difficulties in obtaining estimates with the latter.

³⁶I find no evidence of an autocorrelation problem. For example, the t-statistic for the coefficient on the lagged residuals of my preferred model (B2) is -.77 .

	(B1)			(B2)			(B3)		
	b	se	p	b	se	p	b	se	p
main									
$\sum_{\tau=0}^{t-1} PrivRevPC_{i,\tau}$	-0.041	0.020	0.05	-0.037	0.020	0.06	-0.015	0.031	0.64
$Diffuse_{i,t-1}^{Pop}$	6.57	1.391	0.00	7.35	1.387	0.00	8.85	2.323	0.00
$Diffuse_{i,t-1}^{Trade}$	-1.37	1.007	0.17	-2.14	1.021	0.04	-2.96	1.178	0.03
$PublicDebt_{i,t-1}$	4.43	0.912	0.00	4.06	0.896	0.00	1.64	1.930	0.41
$MktCapPC_{i,t-1}$	4.45	2.167	0.04	4.96	2.127	0.02	3.24	4.780	0.51
$GovFrac_{i,t}$	-0.84	0.854	0.33	-0.28	0.846	0.74	-0.35	1.199	0.77
$GovLeft_{i,t}$	-1.05	0.366	0.00	-20.0	5.075	0.00	-21.1	12.277	0.11
$PR_{i,t}$	-4.25	5.512	0.44	-7.62	5.458	0.16	-11.8	12.596	0.37
$GovLeft_{i,t} \cdot PR_{i,t}$				0.21	0.055	0.00	0.22	0.129	0.12
N	337			337			337		
N countries	14			14			14		
Censored	120			120			120		
Country effects	Fixed			Fixed			Random		

Table 3: Tobit estimation of the determinants of privatization ($PrivRevPC_{i,t}$) across countries. Maximum likelihood estimates with country fixed effects, except model B3 which has country random effects. Standard errors and p-values in parallel columns, both of which for model B3 are calculated using a country-level jackknife procedure.

While space limitations preclude dwelling for too long on control variable results, a few words are necessary.³⁷ Across the models, there is consistent support for the higher levels of public debt being associated with higher privatization effort. Stock market capitalization also performs fairly consistently across models — at least for my preferred specifications. The estimate of the coefficient on government fractionalization is consistently negatively signed, but its statistical significance never reaches conventionally accepted levels.

Given current scholarly interest in policy diffusion, it is worth commenting on the results for the variables capturing this aspect. The parameter estimates for the two diffusion variables are rather conflicting. For $Diffuse^{Pop}$, estimated parameters are positive and statistically significant, indicating that privatizations conducted by larger EU members tended to lead to subsequent privatizations across other member states. By contrast, the results for $Diffuse^{Trade}$ suggest that diffusion amongst trading partners may actually have worked in reverse: with privatization by an important trading partner actually reducing ‘home’ privatization effort.

³⁷The inferences of interest are also robust to the inclusion of GDP growth and unemployment rates. Results available on request.

On the evidence relevant to the hypothesis outlined above, the findings are rather consistent across models. Model B1 provides support for the idea that left-wing parties will, on average, tend to privatize less readily than other parties. Model B2 introduces the interaction effect between *GovLeft* and *PR* that is used to test hypothesis 1. It provides strong support for the hypothesis in that left-wing parties are have their largest negative effect on privatization revenues when electoral proportionality is low. Finally, the results for model B3 show that this inference is robust to the country-jackknife procedure.

These initial results are very encouraging, but the empirical tests can be pushed further. Table 4 provides for an assessment of the robustness of the findings in a number of ways. Model B4 uses a procedure suggested by Bartels (2008) and Bell and Jones (forthcoming) to enable the within- and between-country effects of each explanatory variable to be separated. The specification uses country-level random effects coupled with country-means of variables to capture between-country effects (which I denote with B superscripts) and differences-from-country-means of variables to capture within-country effects.³⁸ Reassuringly, the estimates from model B4 support hypothesis 1 both within and between countries. Model B5 demonstrates that the inferences are robust to the exclusion of all variables that are not either structurally implied by equation 4,³⁹ or directly required to test the hypothesis.⁴⁰ Finally, model B6 assesses whether there is an inferentially important pattern such that left-wing parties tend to adopt privatization towards the end of the sample period. If they were to learn from previous (implicitly right-wing) privatizations, they may feel more comfortable privatizing later. To assess this possibility, I include a time counter *Year* and interact it with *GovLeft*, with the expectation being for a positive coefficient such that left-wing governments become less negative about privatization a later points. The estimates do not support this view — either in terms of coefficient sign or statistical significance — but more importantly, the core inference regarding $GovLeft \cdot PR$ is unaffected.

As a final robustness check, table 5 presents estimates that are analagous to those in table 2. Model B7 demonstrates that the electoral proportionality effect does not seem to

³⁸E.g. $GovLeft_i^B = \sum_{\tau=0}^T GovLeft_{i,\tau}/T$ and $GovLeft_{i,t}^W = GovLeft_{i,t} - GovLeft_i^B$. For easier display in regression tables, I drop the W superscript.

³⁹I.e. cumulative privatization revenues and country dummies.

⁴⁰In fact, the inferences are robust to the exclusion of even cumulative privatization revenues and country dummies. Results available on request.

	(B4)			(B5)			(B6)		
	b	se	p	b	se	p	b	se	p
main									
$\sum_{\tau=0}^{t-1} PrivRevPC_{i,\tau}$	-0.018	0.020	0.38	0.075	0.012	0.00	-0.14	0.028	0.00
$Diffuse_{i,t-1}^{Pop}$	7.68	1.356	0.00				5.44	1.433	0.00
$Diffuse_{i,t-1}^{Trade}$	-2.85	0.975	0.00				-2.09	1.015	0.04
$PublicDebt_i^B$	-1.60	0.757	0.03						
$PublicDebt_{i,t-1}$	4.01	0.903	0.00				3.28	0.981	0.00
$MktCapPC_i^B$	0.31	2.776	0.91						
$MktCapPC_{i,t-1}$	4.19	2.145	0.05				3.58	2.170	0.10
$GovFrac_i^B$	-0.65	0.824	0.43						
$GovFrac_{i,t}$	-0.12	0.861	0.89				0.25	0.891	0.78
$GovLeft_i^B$	-85.2	35.477	0.02						
$GovLeft_{i,t}$	-20.4	5.134	0.00	-15.0	5.185	0.00	111.0	119.252	0.35
PR_i^B	-39.0	15.932	0.01						
$PR_{i,t}$	-7.54	5.567	0.18	-16.3	5.894	0.01	0.16	5.649	0.98
$(GovLeft_{i,t} \cdot PR_{i,t})^B$	0.87	0.369	0.02						
$GovLeft_{i,t} \cdot PR_{i,t}$	0.21	0.055	0.00	0.16	0.056	0.01	0.22	0.055	0.00
$Year_t$							24.9	5.307	0.00
$GovLeft \cdot Year_t$							-0.066	0.060	0.27
N	337			378			337		
N countries	14			14			14		
Censored	120			132			120		
Country effects	Random			Fixed			Fixed		

Table 4: Tobit estimation of the determinants of privatization ($PrivRevPC_{i,t}$) across countries. Maximum likelihood estimates with country random effects for model B4, and country fixed effects for model B5 and B6 . Standard errors and p-values in parallel columns.

run through the effective number of legislative parties. Model B8 demonstrates that it is not the case that left-wing parties privatize more where higher social expenditure provides more of a safety net for those facing the costs of the policy. Likewise, nor do they privatize more where ALMP expenditure is higher.⁴¹ In sum, the macro-level results provide good support for the hypotheses — and so for the theory more generally.

Before concluding, it is helpful to get a sense of the magnitude of the effects that have been estimated. To that end, figure 3 illustrates how the partisanship effect varies with the level of electoral proportionality, as estimated by model B2. The figure is drawn for the sample range of PR and shows that left-wing incumbency has a strongly negative effect for medium and low levels of electoral proportionality, but that those parties are indistinguish-

⁴¹ $SocExp$ and $ALMP$ are lagged one period to try to evade endogeneity issues of these types of expenditure being higher *because* of increased privatization.

	(B7)			(B8)			(B9)		
	b	se	p	b	se	p	b	se	p
model									
$\sum_{\tau=0}^{t-1} PrivRevPC_{i,\tau}$	-0.036	0.020	0.07	-0.060	0.022	0.01	-0.054	0.020	0.01
$Diffuse_{i,t-1}^{Pop}$	7.20	1.393	0.00	6.68	1.422	0.00	5.85	1.417	0.00
$Diffuse_{i,t-1}^{Trade}$	-2.32	1.025	0.02	-1.99	1.025	0.05	-2.33	1.045	0.03
$PublicDebt_{i,t-1}$	3.91	0.901	0.00	2.48	1.108	0.03	3.14	1.017	0.00
$MktCapPC_{i,t-1}$	4.79	2.127	0.02	7.30	2.359	0.00	7.14	2.231	0.00
$GovFrac_{i,t}$	-0.40	0.849	0.64	-0.69	0.893	0.44	-0.36	0.996	0.71
$GovLeft_{i,t}$	-18.5	5.309	0.00	-21.7	5.194	0.00	-20.5	5.480	0.00
$PR_{i,t}$	-7.93	5.457	0.15	-6.89	5.558	0.22	-0.68	5.672	0.91
$GovLeft_{i,t} \cdot PR_{i,t}$	0.18	0.062	0.00	0.23	0.058	0.00	0.22	0.061	0.00
$Parties_{i,t}$	13.2	25.305	0.60						
$GovLeft_{i,t} \cdot Parties_{i,t}$	0.40	0.358	0.26						
$SocExp_{i,t-1}$				18.0	7.369	0.02			
$GovLeft_{i,t} \cdot SocExp_{i,t-1}$				-0.027	0.071	0.71			
$ALMP_{i,t-1}$							165.5	58.069	0.00
$GovLeft_{i,t} \cdot ALMP_{i,t-1}$							-0.66	0.659	0.31
N	337			329			282		
N countries	14			14			14		
Censored	120			116			70		
Country effects	Fixed			Fixed			Fixed		

Table 5: Tobit estimation of the determinants of privatization ($PrivRevPC_{i,t}$) across countries. Maximum likelihood estimates with country fixed effects. Standard errors and p-values in parallel columns.

able from others at high levels of proportionality. Partisanship effects on privatization are not always present. In plotting the figure, I adopt the recent suggestion by Berry, Golder, and Milton (2012) to plot the sample distribution of the ‘conditioning’ variable, in this case PR .⁴² This indicates that there is a preponderance of data drawn from higher electoral proportionality contexts. A methodological and a substantive point are worth making, here. On the former, while the distribution of PR may elicit concern, the jackknifed estimates of model B3 provide reassurance regarding the robustness of the inference. On the latter, one intriguing implication of these results is that, for a large proportion of the country-years in the sample, left-wing parties were, on average, no different from other parties in their pursuit of privatization. In this light, the results lend greater support to the view advanced here that privatization, itself, is not an inherently right-wing policy.

⁴²I do not do this for figure 2 as the country-level data are cross-sectional rather than of a panel nature, yielding only 11 data points in that case.

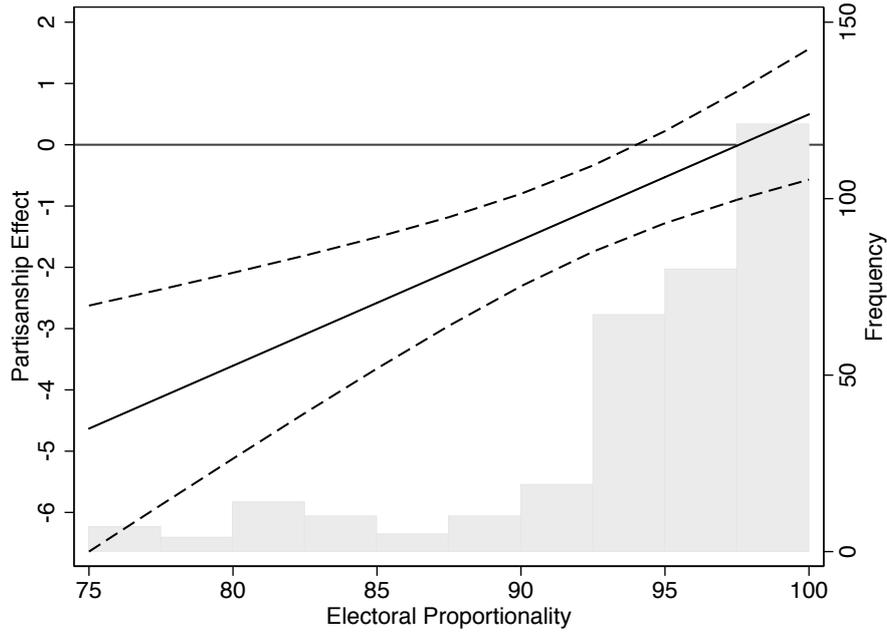


Figure 3: Partisanship effect on privatization, conditional on PR , estimated from model (B2); 95% confidence intervals shown. The y-axis shows the marginal effect of a unit change in $Left$, which itself ranges from 0 to 100.

Substantively, the electoral proportionality interaction is capable of explaining a non-trivial amount of variation in the dependent variable. For example, for a standard deviation change in the $GovLeft$ variable, the change in the partisanship effect when moving from the lowest value of PR to the highest is worth around \$195 per capita per year of privatization revenues. This compares with a sample standard deviation for the dependent variable of around \$175 per capita. To put this in context, the estimated effect of a standard deviation change in one of the most commonly associated explanatory variables, $PublicDebt$, is \$110. In absolute size, and relative to another prominent explanation, the estimated conditional partisanship effect is of substantive significance.

4 Conclusions

The results presented above suggest that the traditional understanding of privatization as an inherently right-wing policy is rather wide of the mark. Such a tendency can, perhaps, be attributed to a focus on the UK and its Thatcherite revolution during the 1980s (e.g. King 1987). Having witnessed the militant miners bring down Edward Heath's government in the

early 1970s, the Tories were eager to ensure that a situation in which a union could hold the country to ransom could not recur. Such an interpretation became all the more prescient towards the end of the 1980s after a raft of trade union legislation had also been passed and Thatcher had won her famous battle with the National Union of Mineworkers. The French experience is also instructive, where privatization revenues show a notable negative correlation with left cabinet seats as privatization programmes stopped and started with the change of governments. At the same time, Durant and Legge (2002, 313) describe how “In response [to the Juppé privatization programme], the French union movement revived, as public-sector strikes nearly crippled the nation’s economy”. Partisanship effects went hand-in-hand with public sector labor strife.

However, while these cases are of great interest, it is clear that they are not typical of a more general political pattern. Left-wing parties have engaged in privatization programs as large as, or larger than, those of their right-wing oppositions in several European countries. To dismiss such activities as capitulation to the Right would appear to be wrong. Indeed, to the extent that greater electoral proportionality is causally related to the election of left-wing governments (Iversen and Soskice 2006), the results here suggest that left-wing parties privatize more where they are stronger, not where they are weaker.⁴³ In Austria the mid-1980s saw both the Socialist Party (SPÖ) and the conservative People’s Party (ÖVP) embrace privatization, as well as broader deregulatory policies. Indeed, Meth-Cohn and Müller (1994) describe the shift by the SPÖ finance minister, Franz Vranitzky as a “quantum leap into supply-side economic policies”, and one for which “criticism within his party was relatively moderate” (Meth-Cohn and Müller 1994, 166). Furthermore, the logic of efficiency benefits from privatization is only just below the surface when they argue that (Meth-Cohn and Müller 1994, 166),

the SPÖ accepted that the state is not an optimal owner. A minister cannot run a firm in the same way as a private owner; under such a situation the enterprise belongs *de facto* to the management and the workers’ council, and beyond that to local and regional politicians and the unions.

⁴³There is an affinity here with the finding by Franzese (2002, 182) that left-wing parties operate with greater fiscal rectitude where they are stronger (in the sense of fearing governmental replacement less).

Meanwhile, in Denmark, Christoffersen and Paldam (2004, 9–10) note that privatization was not politically controversial “for two reasons: The largest privatizations have been done by the Center-Left, and private ownership is in accordance with the values of a large majority of the population”, which meant that “neither the parties to the right nor the trade unions could protest”.

The argument set out here also has implications for the period before privatization appeared on the agenda. If the theory holds for privatization, then it is plausible that it should hold for decisions regarding nationalization of enterprises and industries as well. This remains the case even though there was clearly a general trend from the mid twentieth century away from a policy orientation favoring SOEs over privatized and competitive markets — itself perhaps explained by the evolution of ideas (e.g. Lindvall 2009). If the nationalization period is also relevant for the theory, then we should expect to see SOEs taking on a smaller proportion of the economy in countries with more proportional electoral system. Sweden, it seems, accords with just this prediction as Pontusson (1989, 129) has noted that,

Sweden represents something of a paradox. In no other West European country has a reformist working-class party (or any other type of left party) held government office for so long; yet public ownership of industrial/commercial enterprise is quite limited by comparative standards.

Turning attention to the pre-sample period also highlights an interesting feature of the theory and data. In a sense, the model outlined above is one of ‘disequilibrium’. Those countries which the theory predicts both left- and right-wing parties to be willing privatizers are, logically, the countries in which we should expect there to be nothing to privatize. If neither side wants SOEs, then why would anything have been nationalized in the first place? At least one explanation for some of this apparent off-equilibrium pattern in the data is possible. The outbreak of economic shocks in the past — specifically, the 1970s — led some governments to respond with greater economic intervention in order to shore up what were deemed to be important industries and enterprises. That this was often an exogenously imposed economic imperative rather than partisan opportunism can be seen in Sweden following the 1976 election, which resulted in the first non-Socialist government in almost

half a century. Battling economic crisis, “the bourgeois parties nationalized more industry in their first three years in power than the Social Democrats had done in the previous forty-four years!” (Pontusson 1991, 173–174). The 1970s, then, may provide a partial answer to the question of how richer parts of the world could have been in an off-equilibrium state at the start of the 1980s.

On the basis of the evidence presented here, when left-wing parties embrace privatization, there is every reason to believe that it is not a result of caving-in to right-wing pressure. Privatization is an economic policy that is seen to have the capacity to ‘raise all boats’ — at least in the medium term — but the political costs of it are felt differentially by left-wing parties across countries. Where political institutions are such that there are electoral incentives for left-wing parties to internalize the policy’s benefits more than the costs, it appears that privatization can be rather a consensual policy, rather than simply a tool of partisan ideologues.

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