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ABSTRACT

Crime, Unemployment, and Xenophobia? An Ecological Analysis of Right-Wing Election Results in Hamburg, 1986–2005

This paper investigates the consequences of immigration, crime and socio-economic deprivation for the performance of right-wing extremist and populist parties in the German city state of Hamburg between 1986 and 2005. The ecological determinants of voting for right-wing parties on the district level are compared to those for mainstream and other protest parties. Parallels and differences in spatial characteristics between right-wing extremist and populist parties' performance are identified. Our empirical results tend to confirm the general contextual sociological theory of right-wing radicalization by general social deprivation and immigration. Nevertheless they indicate that one has to be very cautious when interpreting the unemployment/crime - right-winger nexus. Moreover, crime does not seem to have a strong significant effect on right-wing populist parties' election successes despite its importance for their programmes and campaigns.

JEL Classification: D60, D72, I28, J60, P16

Keywords: elections, political extremism, labor market policy, welfare policy, immigration

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1. Introduction

Questions like integration strategies for immigrants and approaches to combat crime have been one important focus of election campaigns in Germany since the 1980s. The most recent case is the failure of the incumbent CDU prime minister of Hesse, Roland Koch, in his notorious attempt to mobilize conservative voters by asking for tougher sanctions against criminal youngsters and, more or less implicitly, against criminal immigrants in January 2008. The CDU campaign in Hesse is not the first attempt of ‘centre’ parties to approach populist structures and content.¹ Nevertheless, topics like fear of immigration and crime as well as of rising unemployment and social decline of natives remain typical issues in party programmes and campaign strategies of right-wing extremist and populist parties in Germany as well as all over Western Europe.

In this paper we investigate the empirical determinants of right-wing extremist and populist election results in the city state of Hamburg from 1986 to 2005. Since the 1990s, the *Bundesland* of Hamburg with its special features of a city state and a commercial metropolitan area on the North Sea has become a kind of role model for the rise and fall of parties and movements covering right-wing and/or populist programmes and attitudes. We focus on an ecological analysis of the circumstances facilitating right-wing parties’ successes on the district level. Apart from gaining some new insights in the structural foundations of right-wing voting in Hamburg our aim is twofold: First, we want to demonstrate that empirical election analysis based on spatial context data instead of surveys of individuals may make an important contribution to the field of voting behaviour and election studies in general. Second, we wish to provide a scientifically sound empirical basis for democratic policies to counter right-wing extremism.

The paper is organized in seven further sections. Part 2 discusses some terminological aspects of right-wing extremism and populism in the German context. It sketches typical patterns of explanation of this phenomenon in the social science literature. Section 3 gives an overview of the methodological and theoretical problems of ecological election analysis and explains our own approach. Part 4 summarizes the central findings of previous ecological studies of voting results of right-wing parties in Europe on a local level. Section 5 sketches the development and programmes of right-wing extremist and populist parties in Germany and Hamburg. Chapter 6 presents our dataset and statistical method. Section 7 summarizes our empirical findings, and section 8 concludes.

2. Right-wing extremism and populism

Some remarks on terminology

Before we turn to our theoretical and empirical analysis of election results of right-wing parties in Hamburg, we have to deal briefly with the terms “extremism” and “populism”. In general one may define political extremism as an anti-constitutional, anti-democratic movement with more or less authoritarian or totalitarian aims based on a somewhat consistent anti-pluralistic ideology.² A modern understanding of political extremism allows for a broad interpretation of these characteristics in order to cover not only neo-Nazi or Stalinist groups and parties but also petty bourgeois, populist protest movements like the French *poujadisme*.

Traditionally, left and right-wing extremisms in Europe are mainly distinguished by their Marxist-Leninist or ethnocentric and chauvinist orientations. These result in ideas of fundamental changes of society according to the model of an ideal future community of man or an idealized past with traditional values, respectively.³

Modern *right-wing extremism* is characterized by a mixture of neoliberal and authoritarian aims. It turns against state interventionism in the economy and against the political establishment. It claims to protect the interests of ordinary people and is based on ethnocentric, anti-foreigner and authoritarian views of politics and social interactions. The prototype of such a right-wing extremist party is the French *Front National*.

Right-wing populist parties emphasizes opposition against the ruling political elites and public order rather than ethnocentric, xenophobic contents. Like their extremist complements they tend to have a strong orientation towards a party leader and strict hierarchies in party organization. Nevertheless, they are less ideologically closed since they try to keep in touch with the volatile mood of the voters in the first place. Typical examples for such right-wing populist parties are the Austrian Liberals (*FPÖ*) and the Italian *Lega Nord*.⁴

These theoretical differences between political extremism and populism, however, may be gradual and hardly identifiable in actual day-to-day politics. This is especially important in the case of the so-called “New Right” in Germany. They have been trying to disguise their extremist views by adapting to conservative arguments and habits of intellectual discourse since the early 1990s. Moreover, according to the German authorities, there is a growing number of organizational connections between extremist and populist right-wing parties and groups.

Explanations of right-wing extremism and populism

What are the main determinants of right-wing extremism and populism mentioned in the social science literature? Basically, if one looks at the various ideological elements of right-wing parties all over Europe, the common denominator of right-wing movements consists of two sets of attributes: (1) a clear distinction between in and out-groups (including ethnocentrism, xenophobia and racism), and (2) a fundamental hierarchical orientation (including a longing for authoritarian government and nationalism).⁵ Previous empirical work on right-wing extremist and populist attitudes and election successes in Europe has found three major sets of determinants explaining right-wing orientations among citizens:⁶ (1) socio-economic deprivation (e.g. by unemployment or fear of losing one’s job), (2) anti-modernist traditionalism (e.g. a very strong belief in law and order, male role models, patriotism and nationalism, obedience to social and political hierarchies or anti-immigration attitudes), and (3) social isolation and low social status (e.g. a low level of education, low income or sub-standard living conditions).

3. Problems and merits of ecological election analysis

Spatial analysis in election studies

Empirical work on right-wing extremism is mostly based on survey data, i.e. on individual information and self-perception given in interviews. This implies not only standard methodological problems of reliability of revealed preferences and attitudes but also the

question of practical political consequences. After all, it might be harder for politicians to change immaterial, psychologically driven attitudes than socio-economic conditions people live in. Given that we are interested in determinants of right-wing extremism and populism *which may be altered by e.g. economic, social or education policy*, we ask for the structural factors driving the political success of extremist parties. As a result we use an “ecological” approach that focuses on the actual socio-economic environment in which voting decisions are taken.

Ecological analyses of election results are far rarer in the literature than papers based on survey data. One reason might be the greater heterogeneity and complexity of data sets combining various resources rather than basically using one survey data set. On the other hand, it is possible to use data provided by official statistics. Therefore such ecological data might be more reliable than results of interviews.

The ecological fallacy problem

Another point concerns the “ecological fallacy” problem first elaborated by Robinson in 1950⁷. He has shown that it is logically difficult to draw conclusions concerning individual behaviour from aggregated data. Basically, two main problems occur: First, relevant information about individuals is lost by aggregation, and second, regression models using aggregated data are subject to a massive heteroskedasticity problem. As a consequence, traditional simple linear regression results are heavily biased.⁸ This is crucial in the empirical analysis of election results and voting behaviour. For example, one must not conclude from the fact that Democrats in the U.S. win relatively many votes in areas mostly populated by blacks that blacks tend to vote for Democratic candidates rather than for Republicans. According to King⁹ it is also possible (and empirically sound) to conclude that whites living in areas dominated by black inhabitants have a different voting behaviour than whites in white-dominated areas, and vote more often Democrat than Republican than the latter do. Another example is election successes of the National Socialists in Germany in the early 1930s, especially in 1930, about which there is only aggregated data available¹⁰. According to conventional wisdom, it was mainly the unemployed of the Great Depression who disproportionately favoured the Nazis. After all, they won especially in labour office districts with high unemployment rates.¹¹ Falter¹², however, has shown that on the county level, there was a clear negative correlation between unemployment and Nazi election successes. This might be explained by fears of still employed but insecure and dissatisfied people who turned away from the established parties to the Nazis promising law and order as well as jobs and job security, while actual unemployed rather turned to the communists.

How have researchers reacted to this fundamental problem of ecological fallacy? Some have more or less neglected the problem¹³ while others have tried to cope with it by using special statistical methods¹⁴. Others have totally turned down the idea of ecological analysis.¹⁵ As a general methodological rule it seems established wisdom now to avoid it, at least if microdata is available. We accept this as a general rule of thumb. Nevertheless, we also see the problem that this attitude to empirical social science tends to neglect potentially important aspects of political processes related to spatial dimensions, i.e. the environmental and social framework of political behaviour. As Gary King has put it: “The literature’s nearly exclusive focus on [...] surveys with random interviews of isolated individuals means that the geographic component to social science data is often neglected. [...] If ‘all politics is local,’ political science is missing much of politics.”¹⁶

We therefore think that ecological analysis is sensible in our case. First, we try to cope with the heteroskedasticity bias by applying a statistical method which has been designed for data situations in which unobserved heterogeneity spoils any attempt to sensibly use traditional linear regression models. Moreover, in interpreting our empirical results we concentrate on the statistical significance of the estimated parameters instead of their magnitude. After all, right-wing parties still receive relatively small shares of the vote which is why even small coefficients may indicate important determinants of their election success (or failure, for that matter), if only they differ significantly from zero. Moreover, virtually all of the literature in empirical political science so far has dealt with biased ecological coefficient estimates leading to implausible or impossible predictions, like voter turnouts exceeding 100 percent. Significance of the ecological parameter estimates, however, has not been a topic, especially since in the critical examples, even the simplest statistical techniques typically result in qualitatively reliable information on the coefficients' significance despite important differences in their magnitude.¹⁷

Second, the aggregation bias is explicitly addressed by our research question. Following the normative aspect of our analysis, we do not intend to draw any direct conclusions about individual decision-making processes and attitudes from our empirical findings. As mentioned above we are mostly interested in identifying structural socio-economic conditions that drive right-wing extremism and populism, which may be changed by political activity. Political activity, however, can hardly try to influence each voter's individual convictions but has to rely on changes in the structures in which individuals take their decisions. In other words, since political measures mainly aim at aggregate conditions it makes sense to analyze the very structural framework that might be altered in order to fight right-wing parties. After all, it has been emphasized in the discussion about Nazi election successes in the 1930, that "Hitler would have come to power even if not a single unemployed had actually voted for him."¹⁸ Thus, it is not an individual's attitudes and worldviews motivating him or her to vote for right-wing parties which we are interested in, but the local conditions this voting decision is made in.

Connecting individual behaviour and aggregate data

What then remains is a logical problem of the theoretical foundation underlying any expected correlation of electoral success and socio-economic conditions in an area. All of the three explanatory hypotheses from the literature mentioned above are (at least in part) about individual-level-relationships, and not solely about contextual effects. For instance, the second hypothesis about anti-modernist traditionalism states that males and the elderly people tend to have traditionalist attitudes, and not that the age structure of the macro unit (the district) has a direct effect. Certainly, it is plausible that for most determinants of right-wing voting, there are both individual level and macro level effects (e.g. both the unemployment rate in a district and the employment status of an individual have an effect on right-wing voting). Nevertheless, the basic logical problem remains: How can aggregate effects on voting output be explained when we cannot necessarily rely on individual decision-making processes?

The solution for this logical problem is provided by two points. First, as the example of Nazi election successes has demonstrated, ecological factors may have different ways of influencing individual decision-making. Nevertheless, the positive effect of unemployment on the NSDAP share of the vote persists, no matter if it was the unemployed themselves who voted for Hitler, or employed feeling threatened by prospects of unemployment or other

people feeling occupational insecurity. Our macro-oriented research question remains open for alternative micro-explanations of the transmission of ecological circumstances into individual behaviour. Since our aim is not to verify or falsify any micro-theory of voting, we do not have any problem to settle with such a reduced form approach to the problem.

Moreover, there is also a more elegant way to reconcile individual-level explanations of voting behaviour with aggregate-level evidence by choosing a specific context-oriented view of voting. “Contextual theories of political behavior generally characterize how individuals respond to their social environment. They recognize that individuals view political life through different lenses depending upon the communities they inhabit. People experience different pressures and face different incentives because of where they happen to reside. [...] aggregate statistics summarize the social environment shaping political behavior. They portray many of the external incentives and pressures that operate on political actors, especially those bound by geography.”¹⁹ As a consequence, “sociotropic” theories of voting stress the importance of the general macro-context of a situation for the individual’s voting behaviour. Therefore, as more recent empirical work²⁰ has shown, it might not only be the traditional “pocket book” aspects that count in voting but, even more importantly, any aspect concerning one’s position in society and life that drives individual behaviour.

In fact, strictly individual and context-related aspects of perception of one’s situation, let alone behaviour, may be two inseparable sides of one coin. A recent paper on the causes of fear of crime, for example, has demonstrated that individual fear of crime in Hamburg varies significantly across city districts, and is determined by individual as well as contextual variables.²¹ Thus, in the case of voting behaviour, similar aggregate framework conditions of individual life might play a significant role. This gives us some strong theoretical justification for the ecological approach even if we accept the basic ecological fallacy problem.

4. Previous findings of ecological election analyses on the local level

Our expectations concerning the results of our empirical study are also shaped by the findings of previous ecological election analyses on the local level. A detailed multiple regression analysis of municipal elections in Belgium in 1988²², for example, has revealed that average income was positively related to the Liberals’ share of the vote and negatively to the Christian Democrats’ and Socialists’. Socialists performed well in communities with a high number of welfare recipients, while a high share of college graduates in the population reduced their result and increased the Greens’ vote. Communities with a high share of young inhabitants tended to vote for Christian Democrats or Greens; a more elderly population improved the turnout for Socialists, Liberals and the Vlaams Blok. Socialists, Greens and Vlaams Blok won in city centers, Christian Democrats in the countryside. High numbers of North African immigrants resulted in more votes for the Socialists and the Vlaams Blok. As a consequence, concerning the determinants of right-wing extremist election successes this ecological analysis finds that the Vlaams Blok’s chances were significantly higher in areas with a high share of elderly inhabitants and immigrants as well as in inner cities.

According to an ecological analysis of the Hamburg state election of 1993, socio-economic problems in a district significantly increased the likelihood of good results for right-wing extremist parties as well as of abstentions.²³ High local unemployment and social deprivation seemed to lead to a climate of insecurity, prejudice and political protest against established parties. An aggregate analysis of the Hamburg state election of 2001²⁴ has shown that the

success of the right-wing populist Schill Party in that election was significantly correlated to wealth (negatively) and living conditions (positively) in a city district. Other contextual variables like crime levels and population growth in the area remained insignificant.

An analysis of the determinants of right-wing extremist parties' shares of the votes in the municipal elections in Amsterdam in 1994²⁵ has revealed a positive correlation of right-wing votes and the share of married couples as well as of ethnic minorities in the neighbourhood population. While overall immigration had a significant effect, the relative impact of Islamic immigrants (from Turkey or Morocco) was higher than the one of black immigrants (from Surinam or the Dutch Antilles). According to the authors of the study, this implies a clear differentiation of natives' threat perceptions of immigration along the lines of cultural and ethnic attributes of immigrants.

Concerning the determinants of the election successes of the extreme right *Republikaner* party in Germany in the 1990s, Lubbers and Scheepers have somewhat surprisingly found a significant negative effect of unemployment on the district level.²⁶ Finally, our county-level analysis of right-wing extremist results in European elections in Germany in the 1990s²⁷ has chosen an ecological study design similar to ours presented here. Based on the empirical findings on significant context variables promoting extremist and populist voting behaviour, we conclude that democratic policies opposing right-wing parties should concentrate on differentiated concepts against unemployment, on social work with youngsters, and on maintaining substantial transfers within the framework of the welfare state.

5. Right-wing extremist and populist parties in Hamburg

A detailed overview of right-wing extremist and populist parties in Germany is given by Falter and Klein, Falter and Schumann, and Pappi.²⁸ In our case, the city state of Hamburg, four parties are relevant: the National Democrats (NPD), *Die Republikaner* (REP), the German People's Union (DVU), and the party "Offensive of the Rule of Law" (PRO / "Schill Party"). Their performance in Hamburg elections since 1986 is given in Table 1.

The party "The Republicans" was founded in 1983. It has been trying to give a conservative impression but its actual ideological location is clearly extremist. The Republicans' programme and propaganda is nationalist and anti-European. Xenophobia and racist anti-immigration positions are partly supported by latent anti-semitism. Moreover, the democratic institutions of the Federal Republic of Germany are interpreted as results of Allied re-education and enforcement contradicting the Germans' national pride. As a consequence, the liberal values of the post-1945 German constitution are seen as illegitimate. The Republicans are anti-American, they have a revisionist perception of national socialism, and tend to play down the crimes committed by Germans between 1933 and 1945, especially during World War II. The Republicans' high time in elections was the late 1980s and early 1990s. They reached 7.1 percent of the votes in the European elections of 1989, and 7.5, 4.9 and 10.9 in the state-level elections in Berlin in 1989, in Bavaria in 1990 and in Baden-Wuerttemberg in 1992, respectively. Since the mid-1990s the party has declined to about 1 to 3 percent of the votes in Germany, except for Baden-Wuerttemberg where it got more than 9 percent in the state elections in 1996 and in municipal elections in 1999. In Hamburg, the Republicans' best result was 4.8 percent in the state elections of 1993. The current status of the party is characterized by internal quarrels and a persistent loss of members.

One reason for the decline of the Republicans is the rise of strong populist competition by the “Deutsche Volksunion“ (German People’s Union, DVU) in the second half of the 1990s. The party was founded in 1987 as a platform for all nationalist groups. Its main aspects are xenophobia, anti-semitism, denial of German atrocities in World War II, anti-democratic authoritarianism and aggressive propaganda trying to win votes of young and socially marginalized people. The party had some success on the state level during the 1990s, e.g. in Schleswig-Holstein (1992: 6.3 percent; 1996: 4.3 percent), Saxony-Anhalt (1998: 12.9 percent), and Brandenburg (1999: 5.3 percent). Since then, however, the DVU’s share of the votes has been declining (except for 2004 in Brandenburg (6.1 percent) and in the special case of Bremerhaven), and the party has not been able to get over the hurdle of 5 percent which the German election system demands for receiving seats in parliaments. In Hamburg, the DVU reached a maximum of 2.8 and 4.9 percent in the state elections of 1993 and 1999, respectively.

The traditional pool of neo-Nazi extremists is the National Democratic Party (NPD) founded in 1964. In 1966, during the so-called “second wave” of post-1945 right-wing election successes in Germany, the party gained 7.4 percent of the votes in Bavaria and 7.9 percent in Hesse. In 1967 the NPD achieved representation in several other state legislatures (Rhineland-Palatinate: 6.9, Schleswig-Holstein: 5.8, Lower Saxony: 7.0, Bremen: 8.8 percent). After its greatest success in Baden-Wuerttemberg in 1968 (9.8 percent), the party failed in the Federal elections of 1969 (4.3 percent) and quickly lost support. Since the late 1990s, however, the NPD has been able to consolidate by cooperating with Skinheads and outspoken neo-Nazis. The party’s programmatic aim is a “German“ or “nationalist socialism“ as opposed to the liberal-capitalist and democratic political system. The principle of “ethnic primacy“ contains racist anti-immigrant positions, anti-semitism and an anti-pluralistic, totalitarian rule of elites modelled according to national socialism. Although the consolidation of the party has not resulted in election successes on the Federal or state level in the 1990s, NPD’s potential has been demonstrated by up to 11.8 percent of the votes in municipal elections in Saxony in 1999 and in recent state-level elections in Saxony (2004: 9.2 percent) and Mecklenburg-Vorpommern (2006: 7.3 percent). As a consequence, there has been an attempt to forbid the party, initiated by the federal government. This attempt, however, failed in 2003 because the German Constitutional Court (which has to decide about the dissolution of political parties) was confronted with illicit and unreliable evidence found by federal and state under-cover agents. In Hamburg, the NPD reached a maximum of 1.0 percent of the votes in the federal election of 2005.

While the three parties mentioned so far are clearly right-wing extremist and more or less neo-Nazi organisations, the fourth party we look at in our analysis is a clearly populist movement with law and order and anti-immigration positions. The party “Offensive of the Rule of Law“ (PRO) was founded by a former judge, Ronald Schill, in 2000.²⁹ Schill had already become well known in the city as “Judge Merciless” due to his tough verdicts. The party programme emphasizes law and order,³⁰ “abuse” of political asylum by immigrants and the need for (basically unwanted) immigrants to “assimilate”.³¹ Some months after its foundation, the “Schill Party“ gained 19.4 percent in the Hamburg state elections in 2001 and formed a coalition government with the Christian Democrats (CDU) and the Liberals. Schill became Senator (Minister) of the Interior. The party remained a local Hamburg phenomenon. After a number of scandals, including Schill’s personal contacts to alleged criminals and his preference for nepotism and partying instead of leading his department, the coalition fell apart in late 2003: Schill had tried to blackmail the city’s Lord Mayor (Prime Minister) by threatening to publish information about the former’s alleged homosexuality. As a result,

Schill was excluded from his party and re-founded a new one, the “PRO-DM/Schill” (Pro Deutsche Mitte/Pro German Centre) Party, together with a populist opponent of European Monetary Union heading a minor party (“PRO DM”). Neither PRO-DM nor PRO (Offensive D), now without its well-known head, were able to gain seats in the state elections of early 2004. They reached 3.1 and 0.4 percent of the votes, while the Christian Democrats gained 47.2 percent.

6. Design of the empirical study

Dataset

The empirical analysis we present in this paper is based on information on the district level of the German city state (*Land*) of Hamburg. Hamburg has about 1.7 million inhabitants and 98 administrative districts. We have assembled data on the socio-economic conditions in the districts from official statistics since the mid-1980s. With this data, we have performed an ecological analysis of the county, state, federal and European elections since 1986. The data was provided by the Hamburg state and German federal statistical offices (<http://www.statistik-bund.de/wahlen>).³²

Apart from taking part in the elections to the German Federal and European Parliaments, Hamburg citizens may elect their State Parliament (*Bürgerschaft*) with 121 seats, and seven county councils (*Bezirksversammlungen*) which are corporations for self-administration without legislative power and 41 seats each. Our endogenous variable is right-wing extremist and populist parties’ election results as an indicator for anti-foreigner attitudes of natives, as compared to the established parties’ (Social Democrats and Christian Democrats) results. Comparing the determinants of extremist and populist votes to the other parties’ should give us an indication whether the conditions in which they are successful are similar. As a consequence we may conclude whether the radicals’ claim to work for the “real” interests of the citizens and to follow truly important aims like law and order is true, as least as far as their voters’ perception is concerned.

We also compare the contextual determinants of right-wing votes to those of their left-wing counterpart, the Party of Democratic Socialism (PDS), and a local center-right protest party, the STATT Party. The PDS is a successor of the ruling socialist party in the former GDR, which has been active in Hamburg since German unification. Apart from a leftist economic ideology the party’s programme has been deliberately vague, emphasizing an ambivalent notion of “social justice”.³³ Concerning its potential to attract anti-establishment protest voters, the PDS might well be an alternative to right-wing populist parties. After all, right-wing parties are generally handicapped in the political process by the specter of Germany’s Nazi past and organizational difficulties.³⁴ The *STATT Partei* was founded after a ruling by Hamburg’s Constitutional Court in 1993 declared the 1991 state elections null and void due to serious violations of candidate selection rules in the CDU. Established as a centrist anti-establishment voters’ association and based on a vague populist programme, the STATT Party received 5.6 percent of the vote in the *Bürgerschaft* election of 1993.³⁵

Following previous considerations and findings cited above, in our empirical analysis, we focus on a set of exogenous contextual variables covering aspects that may increase the attractiveness of right-wing extremist and populist parties: immigration, unemployment, low education and skills, crime, and generally bad living conditions. We try to differentiate

between level effects of e.g. immigration and dynamic effects resulting e.g. from an abrupt increase of foreign population in an area. After all, it seems obvious that a high influx of foreigners in a short period of time may cause more fears of being “overcrowded”, and thus more xenophobia than a relatively constant, high stock of immigrants which one is already used to. The same holds for the unemployment or crime situation, or, for that matter, housing conditions. Massive increases in unemployment in the short run, for example, may give a more serious and urgent impression of a deteriorating economic situation than a high level of persistent unemployment.

We also differentiate the age structure of the indigenous population, unemployment and crime. Given previous results in the literature, we expect more elderly people to vote for right-wingers than youngsters. Youth unemployment may be a more serious political problem than unemployment of elderly workers, since for the young, it endangers their fundamental chances in life while for older workers, aged 55+, it might just be an inconvenient step towards retirement, especially if there are still early retirement schemes subsidized by the government. Therefore, high levels and increases of youth unemployment should improve the populists’ opportunities to be elected when promising more jobs for nationals by applying slogans like “Germans first” or “No more subsidizing of idle asylum seekers” in labour market policy or in public finance. Similarly, we expect violent crimes to have a more frightening effect than mere thefts, thus providing higher incentives to vote for “law and order”.

The exogenous variables in our data set include information on:

- the stock and development of foreign population,
- the age structure of the population,
- the number and development of welfare recipients,
- the local unemployment and wage situation,
- employment (skills) and education of the inhabitants,
- general housing conditions as an additional proxy for social status,
- the local crime situation (thefts and violent crimes), and
- general information on infrastructure (private transport and education) as a measure of mobility/closedness and educational opportunities in the the area.

In order to improve the reader’s orientation we have grouped the variables into seven categories. It has to be noted, however, that while these categories cover different dimensions of spatially defined living conditions they are not mutually exclusive and may well overlap from a theoretical point of view. All data have been assembled for the district level. Table 2 gives an overview of the variables in our data set.

Statistical method

The econometric approach we apply in this paper is based on an adaption of the simple linear regression for panel data with unobserved heterogeneity and potential heteroskedasticity. We use a *Feasible Generalized Least Squares Random Effects Panel Model* (FGLS-REPM).³⁶ Apart from taking account of the potential violation of the standard OLS assumption that the variance of the error term e be constant, the model introduces an additional, randomly distributed error term u which varies across the observations but is constant over time. This error term covers unobserved or unobservable heterogeneity i.e. individual socio-economic particularities of the districts in our data set. The regression equation of the model is:

$$y_{it} = a_0 + a_1x_{1it} + a_2x_{2it} + \dots + u_i + e_{it} \quad (i = 1, \dots, N; t = 1, \dots, T)$$

with y_{it} = percentage of votes for a party (party group) in Hamburg elections 1986-2005; x = exogenous variables; i = voting district; t = time; u_i = district specific error term; e_{it} = error term. We use additional yearly and election dummies variables in order to cover special conditions given by the level of an election (European, federal, state or local) and by time contingency. From a political science perspective, for example, one would expect that voting behaviour, just like voter turnout, might be different in "second-order" elections, such as European elections (perceived as less substantial for policies) than in "first order" elections such as *Bundestag* elections. The county elections of 2001 serve as a reference group.

We have estimated a number of models for the Hamburg elections from 1986 to 2005. They cover the ecological determinants of results of the three extremist parties (NPD, "Republicans" and DVU) combined and separately, and of the right-wing populist "Schill Party" (PRO) and its splitted successors. In order to compare the right-wing parties' performance to the established parties' and other protest parties', we have added estimations for the CDU and SPD as well as for the PDS and STATT Party. For each party we have estimated three alternative specifications with varying differentiations of the socio-economic and crime situations in the city districts.

7. Central Findings

Our estimation results give a complex and differentiated picture of the ecological determinants of party election performance in Hamburg from 1986 to 2005. The overall goodness-of-fit of our models (which obviously varies according to the number of observations available) is very convincing. Concerning the dummies for elections and election years we find that about two thirds of them are highly significant but do not reveal a consistent pattern according to the perceived importance of elections as we expected.

We summarize our results in four steps. First, for the right-wing extremist parties (Tables 3 and 4) we receive interestingly differentiated findings:

(1) *Immigration*: While right-wing extremist parties did significantly better in districts with a high share of immigrant population this effect cannot be ascribed to a single party. On the contrary, the Republicans received more votes in areas with a relatively small foreign population. What is striking about the role of immigrants is the clearly significant positive impact of increasing shares of foreigners in a district. Except for the NPD, the dynamics of immigration promoted election chances of right-wing extremist parties.

(2) *Demography*: Concerning the age structure of the native population, right-wing extremist parties performed better where there was a high share of youngsters and where the number of elderly people had been increasing. The former effect, however, cannot be verified for a single party, while the latter is driven by the results of the DVU. Moreover, it is remarkable that the NPD was significantly more successful in areas with a high stock of elderly people but less attractive in districts with a high increase of elderly. This hints at a NPD speciality since it implies the need of differentiating between "younger" and "older" elderly people.

(3) *Education and occupation*: While a relatively high share of academically educated population did not affect significantly overall right-wing extremist election results, the DVU

and the NPD were significantly more attractive in districts with a higher share of less educated inhabitants. Lower shares of self-employed and higher shares of blue-collar workers in an area increased right-wing extremists' chances to be elected, which is driven by the performance of the Republicans.

(4) *Housing conditions*: Right-wing extremist parties had better election chances in districts with a high share of community flats. Housing conditions, however, did not have a coherent effect on all parties' results. While the general finding is supported for the Republicans only, the DVU seems to have been more successful in areas with high but decreasing per capita housing space and low numbers of inhabitants per household. This might hint at the party's high attractiveness in areas with a high and increasing share of single households (in recently constructed smaller flats). On the other hand, the NPD gained more votes in districts with bigger households.

(5) *Welfare*: Relatively high and increasing welfare reception in a city district raised the general likelihood of votes for right-wingers. Accordingly, an increase in the share of (male) employees subject to social insurance contributions had a negative impact. Nevertheless, the level effect of welfare reception was positive for the DVU and negative for the Republicans, and the dynamic effect was negative for the DVU and positive for the Republicans. None of this was significant in the case of the NPD.

(6) *Unemployment*: High unemployment levels increased the attractiveness of the NPD, while decreasing it for the other right-wing extremist parties. Fast rising unemployment, however, had a positive effect on all right-wing extremist parties' share of the vote. Except for the contrary effect for the NPD, it was especially youth unemployment which fostered right-wing extremist election results, although the dynamic effect was negative for the DVU and the Republicans. Rising unemployment among the elderly was negative for the DVU and positive for the Republicans.

(7) *Crime*: The crime level in the districts of Hamburg had a significantly positive effect only for the Republicans. A surge in criminal acts, especially thefts, had even a negative overall impact which was driven by the Republicans' and the NPD's results. For the DVU, the effect was reverse.

(8) *Infrastructure*: Concerning a district's general infrastructure high levels of private mobility and a small number of elementary and primary education institutions increased the likelihood of right-wing extremists' election successes. These effects, however, can be hardly ascribed to single parties.

Right-wing populist parties also display heterogenous estimation results (Table 5):

(1) *Immigration and demography*: The Schill Party, Pro DM/Schill and Offensive D performed significantly better in districts experiencing a strong influx of immigrants. Offensive D also reached more votes in areas with a high share of elderly people.

(2) *Education and occupation*: While the Schill Party displayed a significantly higher attractiveness in districts with a relatively low-educated population, Pro/DM was less successful in the presence of a high share of self-employed. Offensive D gained significantly more votes in areas with a high share of workers in the population.

(3) *Housing conditions*: Housing conditions were not significant for the performance of the Schill Party. Pro DM was less attractive in districts with a high share of community flats and increasing housing space per capita. Pro DM/Schill and Offensive D, on the other hand, were successful in areas with improving habitation conditions although Pro DM/Schill performed below average where housing space p.c. was high.

(4) *Welfare*: Concerning the effect of welfare reception and social insurance status, the Schill Party and Pro DM/Schill experienced lower shares of the vote in districts where welfare reception increased. The Schill Party also lost where social insurance relevant jobs were relatively more frequent. Offensive D had better chances to succeed in districts with a rising share of welfare recipients.

(5) *Labour market and unemployment*: While a high level of unemployment was negative for the Schill Party, its (and Pro DM/Schill's) votes increased significantly where unemployment increased strongly. This effect was driven by unemployment and unemployment dynamics of the elderly while youth unemployment displayed the reverse impact. Pro DM displayed a negative unemployment level effect for elderly unemployed and Offensive D a positive one. Both gained significantly in district with high unemployment dynamics for elderly people. One may also note that Offensive D attracted significant more votes in areas with a relatively high share of the workforce occupied in low-wage jobs.

(6) *Crime*: The Schill Party's opportunities to be elected increased significantly with a high level of thefts while crime in general and violent crimes remained insignificant. Security issues played no significant role in the performance of Pro DM/Schill and Offensive D. Pro DM, however, performed significantly better with high levels of thefts but worse with general increases of crime including acts of violence.

(7) *Infrastructure*: Pro DM/Schill performed significantly better in districts with high private mobility opportunities while Pro DM's results were negatively affected by private transport infrastructure and positively by a high supply of secondary education institutions.

It is interesting to see where the right-wing extremist and populist parties' ecological determinants of success diverge from those of the established big parties CDU and SPD (Table 6):

(1) *Immigration and demography*: While the CDU seemed more attractive in districts with a high share of foreigners and less in those with a high proportion of youngsters, SPD votes were significantly higher in areas with relatively few immigrants. Both parties received more votes in districts with many elderly inhabitants.

(2) *Occupation and education*: Higher shares of academics and blue-collar workers decreased the Christian Democrats election chances, while districts with relatively many self-employed were favorable for them. The SPD won significantly in blue-collar workers' areas and lost in districts with high share of self-employed.

(3) *Housing conditions, welfare and unemployment*: The CDU performed significantly better in areas with relatively good housing conditions (space p.c.), bigger households and high shares of males employed in social insurance relevant jobs. Welfare reception and unemployment remained insignificant, while the Christian Democrats were more attractive in districts with relatively high proportion of inhabitants in well-paid jobs. Turnout for the SPD

was promoted significantly in areas with many community flats, a high share of unemployed and a fast increase in welfare recipients. Nevertheless, the Social Democrats performed worse in districts with a positive development of housing space, high levels of welfare reception and strong unemployment dynamics (except for elderly unemployed).

(4) *Crime*: The CDU's election performance was negatively affected by high crime levels, especially violent criminal acts whereas the SPD gained votes in situations with increasing numbers of criminal acts, especially thefts.

(5) *Infrastructure*: CDU shares of the vote were negatively correlated to elementary and secondary education opportunities in an area, while SPD votes increased in contexts of better secondary school facilities and decreased with an improved supply in primary schooling.

Finally, our estimations for the alternatives for protest voters, the PDS and the STATT Party may be summarized as follows (Table 7):

(1) *Immigration and demography*: PDS and STATT Party received significantly less votes in areas with high levels of foreign population and a great influx of immigrants, respectively. Moreover, the Socialists were less popular in districts with a high share of elderly inhabitants.

(2) *Occupation and education*: While the education variables remained insignificant in the case of the PDS STATT was less attractive in areas with a high share of university graduates, self-employed and blue-collar workers, indicating that the party was especially successful in petty bourgeois districts.

(3) *Housing conditions and welfare*: Both parties did significantly worse than average in districts with a high share of community flats and high welfare reception dynamics. Nevertheless PDS votes increased with the level of welfare reception.

(4) *Unemployment and labour market*: The Socialists were significantly more attractive in areas with high and increasing unemployment. While this applied especially to elderly unemployed, the level of youth unemployed dampened this result. STATT Party received less votes in districts with increasing unemployment among the elderly and performed better in "high wage" populations.

(5) *Crime*: While PDS results were positively correlated to the crime level (driven by violent crimes and dampened by thefts), the STATT Party lost when criminal acts, especially violent crimes increased.

(6) *Infrastructure*: The only significant effect of the general infrastructure variables was a negative impact of good primary education facilities for the STATT Party.

8. Conclusions

Given that our estimation results are complex and heterogenous, we provide a qualitative heuristic summary of the main effects for the most important parties in Table 8. One has to note that ambivalent outcomes, especially for welfare and unemployment effects, depend mainly on contradicting impacts of level and dynamic aspects. As a general result of our analysis we agree to the literature that it is necessary to differentiate between right-wing

extremist and right-wing populist parties³⁷. Moreover, our findings indicate that this also holds for the need to differentiate among extremist and populist parties as far as the effects of our spatial socio-economic variables are concerned. What strikes us most is the extraordinary position of the NPD among the extremist parties: To a very large degree we have not found significant connections between the National Democrats' election results and their contextual framework. We take this as general support for the hypothesis that the NPD's attractiveness among parts of the electorate is mainly driven by hardened ideological (neo-Nazi) attitudes instead of specific social or economic problems.

Nevertheless, there are similarities in the context making right-wing extremist parties attractive to voters. The starting hypothesis of this paper was the theoretically and empirically founded idea that right-wing election successes are mainly driven by immigration, social status/deprivation (occupation, education, unemployment), and fear of crime (i.e. a "law and order" orientation). Summarizing our findings we may conclude that, by and large, this is confirmed by our results as far as immigration and social status is concerned. Except for the NPD (!) right-wing extremist parties are significantly more successful in areas with high and/or increasing shares of foreign population, with a high proportion of blue-collar workers in the population and relatively bad housing conditions. The role of crime, however, is not straightforward. The "law and order" aspect of right-wing extremism cannot be confirmed from our ecological results, especially if one takes into account that there seems to be a general connection between the share of elderly people in an area and the attractiveness of right-wing extremist parties.

The effects of unemployment are also mixed: Again except for the NPD, high unemployment levels tend to decrease right-wing extremists' election chances. This finding is in accordance to the results of other ecological studies which have identified different empirical effects ranging from a positive impact of unemployment when immigration levels are high to a negative effect similar to ours.³⁸ Our result is also in line with the study by Lubbers and Scheepers which has triggered a methodological debate in empirical political science.³⁹ Our operationalization of the unemployment variables might give a hint to solve the problem of how to explain this counterintuitive result. For the *dynamic effect* of rising unemployment is significantly positive for all right-wing extremist parties and confirms the theoretical hypothesis that social deprivation promotes their attractiveness among voters. This being said we remind the reader that this macro-level finding gives no explanation of the micro-level mechanism of individual decision-making. Similar to the NSDAP case mentioned above, it may be recently laid-off as well as still employed workers (being afraid of losing their job too) or enraged bystanders who vote for right-wing extremist parties in the face of rising unemployment. What is important for our research question is the significantly positive correlation between right-wing extremism and unemployment dynamics.

Given the ecological determinants of right-wing extremist election successes, and keeping in mind the special characteristics of the NPD, we are able to identify three broad fields of policies against right-wing extremism: First, democratic policies have to aim at avoiding abrupt increases in unemployment, creating a general atmosphere of job insecurity and endangered opportunities to make a living. Second, improvements in housing conditions also seem to reduce the attractiveness of right-wing political extremism. Both points emphasize the importance of a sustainable structural policy on the local and regional levels. Third, the most important instrument is investment in education and professional qualification, i.e. education policy is a first priority. A better educated and well-skilled electorate seems to be the best guarantee against political xenophobia and chauvinism.

The common denominator of right-wing populists' election successes from an ecological perspective is significance of immigrant influx as well as unemployment and welfare reception dynamics. The issues of immigration and unemployment are of similar importance for populists as for extremists. Nevertheless, demographic, educational and housing conditions seem to be less crucial. Moreover, similarities between the ecological determinants of right-wing populist election results and those of the established and alternative protest parties are clearly limited. This implies that socialist and centrist (anti-establishment) protest parties are no real alternatives to vote for in similar local conditions, especially if those protest parties' structural prerequisites of success are similar to the big parties, like in the case of the STATT Party and the CDU.

The most interesting result for the right-wing populists around Roland Schill is the effect of crime and public order problems which have played the foremost role in their programmes and campaigns. Election analyses based on survey data have claimed that at least PRO/Schill Partei was perceived as the most competent champion in the fight against crime and that crime was the foremost problem in Hamburg.⁴⁰ This image, however, is only partly mirrored in our ecological results: Neither the level nor the development of overall crime or acts of violence had a significant effect of the share of votes for the right-wing populists. Only crimes against property displayed a significant impact according to our expectations. This finding may hint at another aspect of voting behaviour which is not covered by our ecological dataset: A number of empirical studies have found that the actual number of immigrants is less important than media coverage of immigration. Similarly, *perceived* criminal threat may also depend on impressions shaped by television, the press and other sources of information.⁴¹ As a consequence, perception and media coverage seem to be as important for right-wing election successes as actual *real world* problems modelled by ecological election analysis.

Table 1: Election results in Hamburg, 1986-2005 (% share of vote)

Election	SPD	CDU	NPD	REP	DVU	STATT Partei	Pro DM	PRO / Schill	Pro DM / Schill	PRO / Offensive D	PDS / Die Linke
State 1986	41.7	41.9	---	---	---	---	---	---	---	---	---
County 1986	39.9	41.3	---	---	---	---	---	---	---	---	---
Federal 1987	41.2	37.4	0.4	---	---	---	---	---	---	---	---
State 1987	45.0	40.5	---	---	---	---	---	---	---	---	---
County 1987	43.0	39.8	---	---	---	---	---	---	---	---	---
EU 1989	41.9	31.5	---	6.0	1.5	---	---	---	---	---	---
Federal 1990	41.0	36.6	0.3	1.7	---	---	---	---	---	---	1.1*
State 1991	48.0	35.1	---	1.2	---	---	---	---	---	---	0.5*
County 1991	45.6	35.0	---	1.1	---	---	---	---	---	---	0.3*
State 1993	40.4	25.1	---	4.8	2.8	5.6	---	---	---	---	0.5**
County 1993	38.3	25.6	---	4.5	2.9	5.9	---	---	---	---	---
EU 1994	34.6	32.1	0.2	3.1	---	1.8	---	---	---	---	1.4
Federal 1994	39.7	34.9	---	1.7	---	---	---	---	---	---	2.2
State 1997	36.2	30.7	0.1	1.8	5.0	3.8	---	---	---	---	0.7*
County 1997	34.7	30.8	0.2	2.1	5.3	4.0	---	---	---	---	0.3*
Federal 1998	45.7	30.0	0.1	0.6	2.1	---	0.3	---	---	---	2.3
EU 1999	37.2	40.2	0.3	1.0	---	---	---	---	---	---	3.3
State 2001	36.5	26.2	---	0.1	0.7	0.4	0.2	19.4	---	---	0.4***
County 2001	34.3	27.0	0.0	0.1	0.8	0.6	---	18.5	---	---	0.5***
Federal 2002	42.0	28.1	0.2	0.1	---	---	---	4.2	---	---	2.1
State 2004	30.5	47.2	0.3	---	---	---	---	---	3.1	0.4	---
County 2004	30.0	44.7	0.5	---	---	---	---	---	2.0	0.7	0.4****
EU 2004	25.3	36.7	0.4	0.4	---	---	---	---	---	---	2.8
Federal 2005	38.7	28.9	1.0	---	---	---	---	---	---	---	6.3

Note: EU = Election of the European Parliament; Federal = Elections of the *Bundestag*; State = Election of the *Bürgerschaft* (State Parliament); County = Election of *Bezirksversammlungen* (municipal districts) ; * PDS/Linke Liste; ** Linke Alternative; ***PDS Hamburg; **** PDS Altona / PDS Wandsbek

Table 2: Variables in the data set

Variable	Definition	Mean	Std.Dev.	Min	Max
<i>Party (Share of votes of ...)</i>					
SPD	Share of votes of the Social Democratic Party of Germany (SPD)	0.382	0.095	0.120	0.637
CDU	Share of votes of the Christian Democratic Party (CDU)	0.353	0.107	0.096	0.698
NPD	Share of votes of the National Democratic Party (NPD)	0.003	0.004	0.000	0.025
REP	Share of votes of the "Republicans" (REP)	0.019	0.021	0.000	0.136
DVU	Share of votes of the German People's Union (DVU)	0.028	0.024	0.000	0.148
RECHTE	Total share of votes of the National Democratic Party, "Republicans" and German People's Union (NPD, REP, DVU = RECHTE)	0.029	0.033	0.000	0.205
STATT	Share of votes of the Party "STATT Partei – Die Unabhängigen"	0.032	0.024	0.000	0.110
Pro DM	Share of votes of the Party "Pro DM"	0.003	0.002	0.000	0.010
Schill	Share of votes of the Party "Partei Rechtsstaatlicher Offensive (Schill-Partei)"	0.141	0.084	0.012	0.359
Pro DM / Schill (Schill 2)	Share of votes of the Party "Pro DM/Schill"	0.026	0.020	0.000	0.088
PRO / Offensive D	Share of votes of the Party "Partei Rechtsstaatlicher Offensive (Offensive D)"	0.006	0.006	0.000	0.034
PDS / Die Linke	Share of votes of the Party "PDS / Die Linke"	0.016	0.020	0.000	0.170
Election (year)	Dummy variable for election on the state level (<i>Bürgerschaft</i> = State parliament), county level (<i>Bezirksversammlung</i> = County council), federal level (<i>Bundestag</i> = Federal parliament) and of the European Parliament in (year)	---	---	---	---
<i>Population</i>					
Foreigners	Share of foreigners in population in an election year	0.143	0.119	0.005	0.783
Change in foreigners	Change in the share of foreigners in population during the previous term	0.007	0.026	-0.128	0.207
Young Germans	Share of young Germans (aged 18-34) in population	0.227	0.057	0.139	0.466
Elderly Germans	Share of elderly Germans (aged 65+) in population	0.169	0.044	0.041	0.294
Change in elderly Germans	Change in the share of elderly Germans (aged 65+) in population during the previous term	0.001	0.013	-0.058	0.052
<i>Education / Occupation</i>					
High-skilled	Share of persons with completed tertiary education (University or University of Applied Sciences / <i>Fachhochschule</i> degree) in the employed labour force	0.215	0.110	0.064	0.509
Self-employed	Share of self-employed	0.119	0.070	0.023	0.304
Blue-collar workers	Share of blue collar workers in the employed labour force	0.309	0.126	0.073	0.646
<i>Housing</i>					
Council flats	Share of council flats in total number of flats in an election year	0.155	0.154	0.000	0.724
Housing space	Average housing space per person (m ²)	0.353	0.062	0.113	0.649
Change in housing space	Change in housing space per person during the previous term	0.006	0.020	-0.148	0.293
Persons per household	Number of persons living in a household in an election year	2.006	0.303	1.530	2.790
<i>General socio-economic environment</i>					

Welfare reception	Share of welfare recipients in inhabitants in an election year	0.057	0.040	0.000	0.270
Change in welfare reception	Change in share of welfare recipients during the previous term	0.004	0.016	-0.139	0.102
Employees	Share of employees subject to social insurance contributions (aged 15-65) in population	0.451	0.057	0.155	0.638
Male employees	Share of male employees subject to social insurance contributions (aged 15-65) in male population	0.476	0.063	0.149	0.634
Female employees	Share of female employees subject to social insurance contributions (aged 15-65) in female population	0.426	0.063	0.135	0.643
<i>Labour market</i>					
Unemployment	Unemployment rate in an election year	0.063	0.029	0.009	0.203
Change in unemployment	Change in the unemployment rate during the previous term	-0.000	0.014	-0.101	0.102
Youth unemployment	Unemployment rate of persons aged 15-25 in an election year	0.046	0.024	0.000	0.181
Change in youth unemployment	Change in the unemployment rate of persons aged 15-25 during the previous term	-0.003	0.014	-0.074	0.068
Unemployment, age 55-65	Unemployment rate of persons aged 55-65 in an election year	0.061	0.028	0.000	0.197
Change in unemployment, age 55-65	Change in the unemployment rate of persons aged 55-65 during the previous term	-0.003	0.017	-0.112	0.116
Wage	Average yearly income (in DM)	63039	24188	29333	316250
<i>Crime</i>					
Criminal acts	Number of Criminal acts registered by the police per 1,000 inhabitants in Hamburg in an election year	224.515	666.200	20	12953
Change in Criminal acts	Change in number of Criminal acts registered by the police per 1,000 inhabitants during the previous term	0.013	0.327	-0.795	4.271
Thefts	Number of thefts registered by the police per 1,000 inhabitants in an election year	134.475	389.202	8	4845
Change in thefts	Change in number of registered thefts per 1,000 inhabitants during the previous term	-0.039	0.366	-0.807	6.444
Violent crimes	Number of violent crimes registered by the police per 1,000 inhabitants in an election year	5.403	12.801	0	158
Change in violent crimes	Change in number of registered violent crimes per 1,000 inhabitants during the previous term	0.209	0.673	-1.000	10.000
<i>Infrastructure</i>					
Cars	Number of private passenger cars per 1,000 inhabitants in an election year	385.836	88.024	114	792
Kindergarten	Share of places in kindergarten for children between three and six years	94.434	23.078	36.700	159.600
Primary school	Number of primary schools / population	0.002	0.002	0.000	0.013
Secondary school	Number of secondary schools / population	0.001	0.002	0.000	0.012

Table 3: Determinants of right wing extremist parties' election performance: NPD, REP and DVU combined

Variable	Rechte	Rechte	Rechte
<i>Population</i>			
Foreigners	0,016 (1,72)*	0,018 (2,02)**	0,016 (1,79)*
Change in foreigners	0,125 (8,18)***	0,123 (7,99)***	0,124 (8,01)***
Young Germans	0,050 (2,76)***	0,046 (2,40)**	0,043 (2,29)**
Elderly Germans	0,022 (1,39)	0,020 (1,27)	0,021 (1,37)
Change in elderly	0,115 (3,16)***	0,126 (3,47)***	0,118 (3,23)***
<i>Education/occupation</i>			
High-skilled	-0,020 (-1,41)	-0,021 (-1,47)	-0,019 (-1,29)
Self-employed	-0,043 (-3,32)***	-0,039 (-3,05)***	-0,042 (-3,27)***
Blue-collar	0,047 (3,63)***	0,048 (3,57)***	0,050 (3,73)***
<i>Housing</i>			
Council flats	0,014 (3,75)***	0,015 (3,98)***	0,015 (3,84)***
Housing space	0,022 (1,37)	0,020 (1,26)	0,022 (1,41)
Change in housing space	0,013 (0,66)	0,014 (0,70)	0,012 (0,57)
Persons per household	-0,005 (-1,77)*	-0,004 (-1,34)	-0,004 (-1,16)
<i>General socio-economic environment</i>			
Welfare reception	0,072 (3,03)***	0,069 (2,89)***	0,070 (2,93)***
Change in welfare reception	0,075 (2,74)***	0,072 (2,65)***	0,076 (2,77)***
Employees	-0,053 (-3,68)***	---	---
Female employees	---	-0,007 (-0,44)	-0,008 (-0,49)
Male employees	---	-0,040 (-3,24)***	-0,039 (-3,13)***
<i>Labour market</i>			
Unemployment	-0,272 (-4,79)***	-0,282 (-4,92)***	-0,277 (-4,84)***
Change in unemployment	0,275 (4,61)***	0,282 (4,70)***	0,279 (4,65)***
Youth unemployment	0,179 (4,66)***	0,178 (4,63)***	0,180 (4,69)***
Change in youth unemployment	-0,037 (-1,03)	-0,040 (-1,09)	-0,039 (-1,07)
Unemployment, age 55-65	0,006 (0,19)	0,015 (0,46)	0,007 (0,20)
Change in unemployment, age 55-65	-0,031 (-0,94)	-0,037 (-1,11)	-0,032 (-0,97)
Wage	-0,000 (-0,71)	-0,000 (-0,72)	-0,000 (-0,71)

<i>Crime</i>			
Criminal acts	---	0,000 (0,70)	---
Change in Criminal acts	---	-0,002 (-1,96)**	---
Thefts	-0,000 (-0,49)	---	-0,000 (-0,49)
Change in thefts	-0,001 (-0,89)	---	-0,001 (-0,92)
Violent crimes	0,000 (1,39)	---	0,000 (1,42)
Change in violent crimes	-0,001 (-1,61)	---	-0,001 (-1,56)
<i>Infrastructure</i>			
Cars	0,000 (5,99)***	0,000 (5,64)***	0,000 (5,77)***
Kindergarten	-0,000 (-1,68)*	-0,000 (-1,73)*	-0,000 (-1,85)*
Primary schools	-5,648 (-2,02)**	-5,335 (-1,91)*	-5,642 (-2,02)**
Secondary Schools	0,955 (0,35)	1,540 (0,57)	1,257 (0,46)
Constant	0,006 (0,37)	0,005 (0,29)	0,002 (0,10)
Election (year)	Dummy variable for each election & year included		
Wald – χ^2	11465,92	11471,08	11471,78
R ²	0.86	0.86	0.86
Nobs	1960	1960	1960

Note: t-values in parantheses; ***, ** and * indicate statistical significance on the 1, 5 and 10 percent level, respectively (two-tailed test).

Table 4: Determinants of right wing extremist parties' election performance: NPD, DVU and REP

Variable	NPD	NPD	NPD	DVU	DVU	DVU	REP	REP	REP
<i>Population</i>									
Foreigners	0,002 (1,31)	0,003 (1,63)	0,002 (1,41)	0,010 (0,81)	0,013 (0,97)	0,012 (0,94)	-0,013 (-1,93)*	-0,011 (-1,53)	-0,012 (-1,83)*
Change in foreigners	-0,004 (-1,06)	-0,004 (-1,07)	-0,004 (-1,13)	0,129 (5,29)***	0,115 (4,72)***	0,128 (5,26)***	0,059 (4,76)***	0,060 (4,89)***	0,058 (4,68)***
Young Germans	-0,004 (-1,18)	-0,005 (-1,29)	-0,005 (-1,36)	0,017 (0,64)	0,017 (0,60)	0,008 (0,29)	0,023 (1,78)*	0,021 (1,47)	0,020 (1,41)
Elderly Germans	0,015 (4,79)***	0,015 (4,79)***	0,015 (4,81)***	-0,003 (-0,11)	-0,005 (-0,19)	-0,001 (-0,04)	0,018 (1,52)	0,016 (1,27)	0,018 (1,54)
Change in elderly	-0,032 (-4,10)***	-0,030 (-3,95)***	-0,032 (-4,05)***	0,133 (2,35)**	0,150 (2,63)***	0,136 (2,40)**	-0,008 (-0,29)	0,007 (0,25)	-0,006 (-0,21)
<i>Education/occupation</i>									
High-skilled	-0,006 (-2,40)**	-0,007 (-2,42)**	-0,006 (-2,25)**	-0,083 (-3,93)***	-0,087 (-4,01)***	-0,080 (-3,81)***	-0,003 (-0,25)	-0,002 (-0,18)	-0,002 (-0,15)
Self-employed	-0,002 (-0,66)	-0,001 (-0,47)	-0,001 (-0,56)	-0,024 (-1,32)	-0,017 (-0,93)	-0,022 (-1,21)	-0,028 (-3,10)***	-0,026 (-2,89)***	-0,027 (-3,00)***
Blue-collar	0,000 (0,21)	0,001 (0,24)	0,001 (0,38)	0,016 (0,84)	0,014 (0,70)	0,020 (1,03)	0,046 (4,87)***	0,046 (4,63)***	0,047 (4,85)***
<i>Housing</i>									
Council flats	-0,000 (-0,33)	-0,000 (-0,20)	-0,000 (-0,30)	-0,004 (-0,70)	-0,003 (-0,50)	-0,004 (-0,63)	0,011 (3,76)***	0,012 (4,00)***	0,011 (3,82)***
Housing space	-0,002 (-0,83)	-0,002 (-0,82)	-0,002 (-0,80)	0,067 (3,13)***	0,059 (2,71)***	0,067 (3,13)***	-0,012 (-0,99)	-0,014 (-1,16)	-0,012 (-1,03)
Change in housing space	0,002 (0,46)	0,002 (0,48)	0,002 (0,44)	-0,055 (-2,08)**	-0,050 (-1,86)*	-0,056 (-2,12)**	0,023 (1,51)	0,023 (1,52)	0,022 (1,45)
Persons per household	0,001 (2,13)**	0,001 (2,08)**	0,001 (2,22)**	-0,013 (-2,88)***	-0,011 (-2,11)**	-0,011 (-2,19)**	-0,001 (-0,61)	-0,001 (-0,36)	-0,000 (-0,11)
<i>General socio-economic environment</i>									
Welfare reception	0,007 (1,42)	0,007 (1,39)	0,007 (1,39)	0,049 (0,98)	0,165 (4,66)***	0,163 (4,69)***	-0,043 (-2,38)**	-0,050 (-2,69)***	-0,045 (-2,49)**
Change in welfare reception	0,003 (0,46)	0,002 (0,43)	0,003 (0,52)	0,003 (0,06)	-0,167 (-4,03)***	-0,147 (-3,54)***	0,174 (8,11)***	0,178 (8,36)***	0,174 (8,14)***
Employees				-0,053 (-2,36)**	---	---	-0,054 (-5,00)***	---	---

Female employees	0,001 (0,21)	---	---	---	-0,002 (-0,09)	-0,003 (-0,12)	---	-0,016 (-1,18)	-0,016 (-1,27)
Male employees	---	0,003 (0,79)	0,002 (0,73)	---	-0,049 (-2,60)***	-0,040 (-2,18)**	---	-0,033 (-3,59)***	-0,034 (-3,79)***
<i>Labour market</i>									
Unemployment	0,024 (2,15)**	0,024 (2,07)**	0,024 (2,07)**	-0,108 (-1,26)	-0,164 (-1,83)*	-0,114 (-1,31)	-0,107 (-2,44)**	-0,102 (-2,25)**	-0,107 (-2,40)**
Change in unemployment	0,024 (1,92)*	0,025 (2,00)**	0,025 (1,97)**	0,542 (5,74)***	0,542 (5,67)***	0,538 (5,70)***	0,098 (2,00)**	0,104 (2,11)**	0,098 (2,00)**
Youth unemployment	-0,015 (-1,92)*	-0,016 (-1,97)**	-0,015 (-1,89)*	0,137 (2,33)**	0,157 (2,62)***	0,140 (2,39)**	0,077 (2,60)***	0,071 (2,35)**	0,077 (2,61)***
Change in youth unemployment	-0,000 (-0,04)	-0,000 (-0,04)	-0,001 (-0,07)	-0,164 (-2,98)***	-0,165 (-2,97)***	-0,162 (-2,95)***	-0,065 (-2,20)**	-0,065 (-2,18)**	-0,065 (-2,19)**
Unemployment, age 55-65	-0,001 (-0,20)	-0,000 (-0,06)	-0,001 (-0,16)	-0,66 (-1,30)	-0,045 (-0,87)	-0,065 (-1,28)	0,023 (0,88)	0,020 (0,78)	0,022 (0,86)
Change in unemployment, age 55-65	0,004 (0,67)	0,004 (0,56)	0,004 (0,60)	-0,096 (-1,79)*	-0,093 (-1,73)*	-0,094 (-1,77)*	0,062 (2,27)**	0,055 (2,01)**	0,062 (2,27)**
Wage	0,000 (0,52)	0,000 (0,54)	0,000 (0,51)	0,000 (1,56)	0,000 (1,48)	0,000 (1,53)	-0,000 (-0,12)	-0,000 (-0,07)	-0,000 (-0,12)
<i>Crime</i>									
Criminal acts	---	0,000 (0,81)	---	---	-0,000 (-0,22)	---	---	0,000 (2,36)**	---
Change in Criminal acts	---	-0,000 (-1,98)**	---	---	0,003 (2,85)***	---	---	-0,003 (-4,02)***	---
Thefts	0,000 (0,45)	---	0,000 (0,42)	-0,000 (-2,33)**	---	-0,000 (-2,32)**	0,000 (1,36)	---	0,000 (1,35)
Change in thefts	-0,000 (-1,18)	---	-0,000 (-1,16)	0,006 (4,02)***	---	0,006 (4,04)***	-0,002 (-3,26)***	---	-0,002 (-3,28)***
Violent crimes	0,000 (0,39)	---	0,000 (0,40)	0,000 (2,40)**	---	0,000 (2,38)**	0,000 (0,84)	---	0,000 (0,88)
Change in violent crimes	-0,000 (-1,27)	---	-0,000 (-1,23)	-0,000 (-0,60)	---	-0,000 (-0,52)	-0,000 (-0,28)	---	-0,000 (-0,24)
<i>Infrastructure</i>									
Cars	-0,000 (-0,87)	-0,000 (-1,01)	-0,000 (-0,98)	0,000 (3,57)***	0,000 (2,81)***	0,000 (3,43)***	0,000 (1,43)	0,000 (1,14)	0,000 (1,26)
Kindergarten	-0,000 (-0,07)	-0,000 (-0,07)	-0,000 (-0,18)	-0,000 (-0,94)	-0,000 (-1,14)	-0,000 (-1,10)	-0,000 (-1,15)	-0,000 (-0,99)	-0,000 (-1,29)

Primary schools	0,250 (0,50)	0,387 (0,78)	0,266 (0,53)	-5,993 (-1,24)	-6,548 (-1,33)	-6,106 (-1,28)	-3,200 (-1,46)	-2,570 (-1,14)	-3,217 (-1,47)
Secondary Schools	0,285 (0,53)	0,245 (0,47)	0,298 (0,55)	-1,319 (-0,30)	0,666 (0,15)	-0,847 (-0,19)	1,471 (0,71)	1,536 (0,73)	1,700 (0,82)
Constant	-0,002 (-0,68)	-0,003 (-0,83)	-0,003 (-0,87)	0,026 (1,09)	0,030 (1,23)	0,019 (0,78)	0,022 (1,87)*	0,020 (1,66)*	0,019 (1,58)
Election (year)	Dummy variable for each election & year included								
Wald – χ^2	2135,05	2134,32	2130,50	2716,48	2659,00	2717,78	6774,25	6768,11	6775,91
R ²	0.61	0.61	0.61	0.78	0.78	0.78	0.81	0.81	0.81
Nobs	1274	1274	1274	784	784	784	1568	1568	1568

Note: t-values in parantheses; ***, ** and * indicate statistical significance on the 1, 5 and 10 percent level, respectively (two-tailed test).

Table 5: Determinants of right-wing populist parties' election results: Partei Rechtsstaatlicher Offensive/Schill-Partei, Pro DM/Schill (Schill 2), Pro DM and Partei Rechtsstaatlicher Offensive (Offensive D)

Variable	Schill	Schill	Schill	Schill 2	Schill 2	Schill 2	Pro DM	Pro DM	Pro DM	Offensive D	Offensive D	Offensive D
<i>Population</i>												
Foreigners	-0,039 (-0,59)	-0,024 (-0,35)	-0,049 (-0,69)	0,054 (1,19)	0,039 (0,85)	0,049 (1,06)	-0,002 (-0,72)	-0,003 (-1,21)	-0,003 (-1,22)	0,006 (0,50)	0,003 (0,23)	0,004 (0,30)
Change in foreigners	0,442 (2,28)**	0,442 (2,42)**	0,447 (2,29)**	0,270 (2,64)***	0,294 (3,07)***	0,271 (2,63)***	-0,008 (-1,22)	-0,003 (-0,51)	-0,008 (-1,24)	0,103 (3,80)***	0,101 (4,04)***	0,101 (3,74)***
Young Germans	0,014 (0,09)	-0,076 (-0,47)	0,030 (0,18)	0,018 (0,25)	0,036 (0,51)	0,025 (0,34)	-0,004 (-0,69)	-0,003 (-0,53)	-0,001 (-0,13)	-0,009 (-0,50)	-0,007 (-0,37)	-0,008 (-0,39)
Elderly Germans	0,141 (0,96)	0,137 (0,94)	0,142 (0,96)	-0,035 (-0,56)	-0,060 (-0,94)	-0,036 (-0,55)	0,006 (1,23)	0,005 (0,88)	0,005 (0,91)	0,037 (2,22)**	0,030 (1,79)*	0,031 (1,81)*
Change in elderly	-0,009 (-0,03)	-0,061 (-0,21)	-0,003 (-0,01)	-0,157 (-0,96)	-0,215 (-1,32)	-0,156 (-0,92)	0,017 (1,26)	0,013 (0,98)	0,013 (0,95)	-0,045 (-1,05)	-0,031 (-0,73)	-0,031 (-0,70)
<i>Education/occupation</i>												
High-skilled	-0,451 (-3,98)***	-0,421 (-3,67)***	-0,458 (-3,95)***	0,018 (0,35)	-0,007 (-0,13)	0,012 (0,21)	-0,006 (-1,29)	-0,005 (-1,10)	-0,008 (-1,74)*	0,028 (2,03)**	0,021 (1,41)	0,022 (1,43)
Self-employed	0,009 (0,09)	0,013 (0,13)	0,003 (0,03)	-0,182 (-3,65)***	-0,191 (-4,10)***	-0,183 (-3,61)***	0,002 (0,53)	-0,001 (-0,23)	0,001 (0,23)	0,005 (0,35)	0,006 (0,53)	0,007 (0,52)
Blue-collar	-0,055 (-0,56)	-0,038 (-0,39)	-0,060 (-0,61)	0,016 (0,43)	0,005 (0,12)	0,012 (0,30)	0,001 (0,23)	0,002 (0,60)	-0,001 (-0,24)	0,037 (3,71)***	0,033 (3,08)***	0,032 (3,05)***
<i>Housing</i>												
Council flats	0,055 (1,48)	0,049 (1,34)	0,055 (1,50)	0,011 (0,65)	0,009 (0,50)	0,011 (0,65)	-0,003 (-2,52)**	-0,004 (-2,78)***	-0,003 (-2,50)**	0,001 (0,12)	-0,000 (-0,08)	-0,000 (-0,08)
Housing space	0,120 (0,97)	0,146 (1,23)	0,119 (0,97)	-0,127 (-2,21)**	-0,118 (-2,09)**	-0,126 (-2,19)**	-0,006 (-1,47)	-0,004 (-1,00)	-0,006 (-1,45)	-0,009 (-0,57)	-0,006 (-0,44)	-0,008 (-0,51)
Change in housing space	0,307 (1,10)	0,208 (0,76)	0,306 (1,09)	0,423 (2,30)**	0,518 (3,09)***	0,424 (2,26)**	-0,016 (-2,10)**	-0,015 (-1,97)**	-0,014 (-1,92)*	0,177 (3,63)***	0,162 (3,70)***	0,166 (3,36)***
Persons per household	-0,015 (-0,62)	-0,012 (-0,39)	-0,017 (-0,54)	-0,009 (-0,84)	-0,009 (-0,72)	-0,010 (-0,74)	-0,001 (-1,57)	-0,002 (-1,97)**	-0,003 (-2,37)**	0,005 (1,89)*	0,003 (0,82)	0,003 (0,83)
<i>General socio-economic environment</i>												
Welfare reception	-0,017 (-0,08)	0,076 (0,36)	-0,013 (-0,06)	0,062 (0,56)	0,085 (0,77)	0,065 (0,58)	0,011 (1,38)	0,016 (1,93)*	0,011 (1,45)	-0,023 (-0,80)	-0,015 (-0,52)	-0,020 (-0,69)
Change in welfare reception	-0,550 (-2,62)***	-0,549 (-2,67)***	-0,554 (-2,64)***	-0,498 (-2,94)***	-0,465 (-2,79)***	-0,502 (-2,90)***	-0,007 (-0,81)	-0,015 (-1,60)	-0,010 (-1,11)	0,117 (2,60)***	0,101 (2,32)**	0,106 (2,33)**
Employees	-0,330 (-2,76)***	---	---	-0,082 (-1,27)	---	---	0,000 (0,10)	---	---	-0,012 (-0,69)	---	---
Female employees	---	-0,078 (-0,53)	-0,177 (-1,16)	---	-0,052 (-0,79)	-0,052 (-0,73)	---	-0,005 (-0,96)	-0,010 (-1,76)*	---	-0,026 (-1,54)	-0,026 (-1,38)

Male employees	---	-0,154 (-1,55)	-0,173 (-1,72)*	---	-0,071 (-1,28)	-0,041 (-0,70)	---	0,005 (1,22)	0,005 (1,43)	---	0,007 (0,46)	0,009 (0,56)
<i>Labour market</i>												
Unemployment	-0,835 (-1,69)*	-0,951 (-1,85)*	-0,852 (-1,69)*	-0,067 (-0,22)	-0,151 (-0,51)	-0,083 (-0,27)	0,026 (1,27)	0,018 (0,83)	0,030 (1,46)	-0,046 (-0,57)	-0,065 (-0,84)	-0,045 (-0,56)
Change in unemployment	0,993 (2,29)**	0,957 (2,21)**	1,004 (2,30)**	0,821 (2,65)***	0,900 (2,90)***	0,826 (2,64)***	-0,031 (-1,54)	-0,016 (-0,80)	-0,029 (-1,43)	0,137 (1,67)*	0,133 (1,64)	0,124 (1,51)
Youth unemployment	0,753 (2,57)**	0,752 (2,61)***	0,747 (2,55)**	0,237 (1,09)	0,390 (1,86)*	0,242 (1,06)	0,000 (0,03)	-0,001 (-0,08)	-0,005 (-0,36)	0,049 (0,86)	0,044 (0,81)	0,029 (0,49)
Change in youth unemployment	-0,402 (-1,92)*	-0,358 (-1,73)*	-0,399 (-1,91)*	-0,055 (-0,32)	-0,206 (-1,18)	-0,051 (-0,26)	0,016 (1,45)	0,014 (1,23)	0,017 (1,53)	-0,056 (-1,24)	-0,036 (-0,78)	-0,027 (-0,52)
Unemployment, age 55-65	0,635 (2,36)**	0,689 (2,77)***	0,650 (2,40)**	0,167 (1,02)	0,130 (0,84)	0,177 (1,06)	-0,032 (-3,33)***	-0,031 (-3,17)***	-0,034 (-3,52)***	0,108 (2,47)**	0,116 (2,86)***	0,113 (2,58)***
Change in unemployment, age 55-65	-0,262 (-1,44)	-0,283 (-1,60)	-0,267 (-1,47)	-0,365 (-2,55)**	-0,363 (-2,73)***	-0,372 (-2,60)***	0,035 (3,49)***	0,035 (3,43)***	0,036 (3,59)***	0,067 (1,78)*	0,064 (1,84)*	0,067 (1,78)*
Wage	0,000 (0,36)	0,000 (0,44)	0,000 (0,37)	0,000 (0,89)	0,000 (1,23)	0,000 (0,90)	0,000 (1,05)	0,000 (1,40)	0,000 (1,14)	-0,000 (-1,82)*	-0,000 (-1,84)*	-0,000 (-1,83)*
<i>Crime</i>												
Criminal acts	---	0,000 (1,24)	---	---	-0,000 (-0,18)	---	---	0,000 (1,45)	---	---	0,000 (1,51)	---
Change in Criminal acts	---	0,003 (0,69)	---	---	-0,006 (-1,78)*	---	---	-0,001 (-2,03)**	---	---	-0,001 (-1,47)	---
Thefts	0,000 (2,03)**	---	0,000 (2,03)**	-0,000 (-0,10)	---	-0,000 (-0,04)	0,000 (2,25)**	---	0,000 (2,35)**	-0,000 (-0,00)	---	0,000 (0,23)
Change in thefts	-0,003 (-0,31)	---	-0,003 (-0,31)	-0,002 (-1,15)	---	-0,003 (-1,17)	0,000 (0,26)	---	0,000 (0,21)	-0,001 (-0,99)	---	-0,001 (-1,30)
Violent crimes	-0,001 (-1,36)	---	-0,001 (-1,34)	-0,000 (-0,02)	---	-0,000 (-0,08)	-0,000 (-1,85)*	---	-0,000 (-1,83)*	0,000 (0,89)	---	0,000 (0,51)
Change in violent crimes	-0,002 (-0,70)	---	-0,002 (-0,68)	0,003 (1,51)	---	0,003 (1,46)	-0,000 (-2,84)***	---	-0,000 (-3,29)***	-0,000 (-0,33)	---	-0,000 (-0,01)
<i>Infrastructure</i>												
Cars	0,000 (0,03)	0,000 (0,38)	0,000 (0,01)	0,000 (3,89)***	0,000 (4,03)***	0,000 (3,74)***	-0,000 (-1,89)*	-0,000 (-1,45)	-0,000 (-1,72)*	0,000 (0,94)	0,000 (0,63)	0,000 (0,65)
Kindergarten	-0,000 (-0,68)	-0,000 (-0,87)	-0,000 (-0,71)	0,000 (0,60)	0,000 (0,41)	0,000 (0,60)	-0,000 (-1,12)	-0,000 (-1,03)	-0,000 (-0,86)	-0,000 (-0,52)	-0,000 (-0,40)	-0,000 (-0,35)
Primary schools	-6,768 (-0,36)	-4,772 (-0,25)	-7,172 (-0,37)	-1,104 (-0,14)	-7,310 (-1,06)	-1,256 (-0,16)	-0,241 (-0,26)	-0,610 (-0,65)	-0,251 (-0,27)	2,531 (1,21)	2,412 (1,33)	2,638 (1,26)
Secondary Schools	-3,809 (-0,22)	-10,511 (-0,62)	-4,026 (-0,23)	13,383 (0,99)	9,326 (0,73)	13,441 (0,99)	2,056 (2,56)**	1,434 (1,81)*	1,841 (2,29)**	-0,261 (-0,07)	-0,306 (-0,09)	-0,164 (-0,05)
Constant	0,392 (3,03)***	0,330 (2,36)**	0,406 (2,79)***	-0,016 (-0,28)	0,011 (0,16)	-0,007 (-0,10)	---	0,10 (1,93)*	---	---	-0,009 (-0,48)	---
Election (year)	Dummy variable for each election & year included											

Wald – χ^2	3498,21	3452,94	3491,65	213,75	215,60	213,23	202,10	182,02	209,01	402,37	415,28	405,91
R ²	0.94	0.94	0.94	0.37	0.37	0.37	0.57	0.53	0.59	0.39	0.39	0.39
Nobs	294	294	294	196	196	196	196	196	196	196	196	196

Note: t-values in parantheses; ***, ** and * indicate statistical significance on the 1, 5 and 10 percent level, respectively (two-tailed test).

Table 6: Determinants of center-right and center-left parties' election performance: CDU and SPD

Variable	CDU	CDU	CDU	SPD	SPD	SPD
<i>Population</i>						
Foreigners	0,209 (9,28)***	0,203 (9,10)***	0,208 (9,30)***	-0,159 (-6,54)***	-0,158 (-6,50)***	-0,158 (-6,50)***
Change in foreigners	0,013 (0,44)	0,020 (0,69)	0,019 (0,65)	0,136 (4,40)***	0,140 (4,47)***	0,133 (4,27)***
Young Germans	-0,380 (-6,07)***	-0,354 (-5,45)***	-0,357 (-5,70)***	0,019 (0,26)	0,051 (0,67)	0,003 (0,04)
Elderly Germans	0,346 (10,08)***	0,351 (10,20)***	0,356 (10,37)***	0,089 (2,43)**	0,080 (2,16)**	0,084 (2,26)**
Change in elderly	-0,065 (-0,89)	-0,081 (-1,12)	-0,077 (-1,05)	0,039 (0,50)	0,040 (0,51)	0,045 (0,58)
<i>Education/occupation</i>						
High-skilled	-0,372 (-8,00)***	-0,367 (-7,76)***	-0,367 (-7,97)***	-0,002 (-0,04)	-0,015 (-0,27)	-0,003 (-0,05)
Self-employed	0,800 (17,07)***	0,798 (16,66)***	0,808 (17,41)***	-0,782 (-14,23)***	-0,769 (-13,61)***	-0,785 (-14,37)***
Blue-collar	-0,371 (-8,37)***	-0,380 (-8,35)***	-0,376 (-8,50)***	0,283 (5,56)***	0,277 (5,28)***	0,288 (5,66)***
<i>Housing</i>						
Council flats	-0,001 (-0,06)	-0,002 (-0,20)	-0,001 (-0,13)	0,055 (5,75)***	0,056 (5,83)***	0,055 (5,78)***
Housing space	0,075 (2,12)**	0,072 (2,01)**	0,068 (1,92)*	0,052 (1,37)	0,059 (1,53)	0,056 (1,47)
Change in housing space	0,002 (0,06)	0,004 (0,10)	0,008 (0,22)	-0,078 (-1,96)*	-0,070 (-1,76)*	-0,081 (-2,04)**
Persons per household	0,064 (5,53)***	0,058 (4,76)***	0,058 (4,94)***	0,004 (0,32)	0,007 (0,45)	0,008 (0,59)
<i>General socio-economic environment</i>						
Welfare reception	0,049 (0,98)	0,035 (0,71)	0,053 (1,06)	-0,594 (-11,13)***	-0,595 (-11,14)***	-0,595 (-11,15)***
Change in welfare reception	0,003 (0,06)	0,012 (0,23)	0,005 (0,09)	0,548 (9,96)***	0,547 (9,96)***	0,547 (9,94)***
Employees	0,227 (6,06)***	---	---	-0,114 (-2,79)***	---	---
Female employees	---	0,014 (0,35)	0,030 (0,76)	---	-0,008 (-0,19)	-0,005 (-0,12)
Male employees	---	0,201 (5,42)***	0,192 (5,23)***	---	-0,104 (-2,53)**	-0,101 (-2,47)**
<i>Labour market</i>						
Unemployment	0,153 (1,29)	0,207 (1,75)*	0,178 (1,49)	0,674 (5,30)***	0,674 (5,30)***	0,658 (5,14)***
Change in unemployment	-0,015 (-0,12)	-0,035 (-0,29)	-0,017 (-0,14)	-0,624 (-4,83)***	-0,653 (-5,02)***	-0,621 (-4,81)***
Youth unemployment	0,050 (0,63)	0,049 (0,63)	0,052 (0,66)	-0,013 (-0,15)	0,009 (0,11)	-0,017 (-0,20)
Change in youth unemployment	-0,021 (-0,30)	-0,016 (-0,22)	-0,024 (-0,34)	0,049 (0,65)	0,034 (0,44)	0,053 (0,69)
Unemployment, age 55-65	0,002 (0,03)	0,001 (0,02)	0,002 (0,03)	-0,037 (-0,49)	-0,015 (-0,21)	-0,036 (-0,49)
Change in unemployment, age 55-65	-0,068 (-1,01)	-0,056 (-0,83)	-0,071 (-1,05)	0,181 (2,53)**	0,195 (2,71)***	0,182 (2,55)**
Wage	0,000 (2,89)***	0,000 (2,87)***	0,000 (2,95)***	-0,000 (-1,54)	-0,000 (-1,29)	-0,000 (-1,55)

<i>Crime</i>						
Criminal acts	---	-0,000 (-4,41)***	---	---	-0,000 (-1,22)	---
Change in Criminal acts	---	0,002 (1,52)	---	---	0,004 (2,70)***	---
Thefts	-0,000 (-0,61)	---	-0,000 (-0,69)	0,000 (3,09)***	---	0,000 (3,16)***
Change in thefts	0,001 (0,86)	---	0,002 (1,08)	0,007 (4,87)***	---	0,007 (4,74)***
Violent crimes	-0,000 (-3,20)***	---	-0,000 (-3,19)***	-0,000 (-0,58)	---	-0,000 (-0,63)
Change in violent crimes	0,000 (0,65)	---	0,000 (0,50)	0,001 (0,64)	---	0,001 (0,71)
<i>Infrastructure</i>						
Cars	-0,000 (-0,79)	-0,000 (-0,31)	-0,000 (-0,58)	-0,000 (-0,63)	-0,000 (-0,44)	-0,000 (-0,73)
Kindergarten	-0,000 (-3,87)***	-0,000 (-3,56)***	-0,000 (-3,53)***	-0,000 (-0,26)	-0,000 (-0,39)	-0,000 (-0,40)
Primary schools	-0,128 (-0,01)	-2,093 (-0,24)	-1,842 (-0,21)	-23,980 (-2,46)**	-16,230 (-1,63)	-22,666 (-2,32)**
Secondary Schools	-9,711 (-1,50)	-12,306 (-1,90)*	-10,850 (-1,68)*	34,049 (4,89)***	30,945 (4,40)***	34,648 (4,97)***
Constant	0,111 (2,33)**	0,115 (2,39)**	0,112 (2,38)**	0,385 (7,12)***	0,374 (6,76)***	0,380 (7,07)***
Election (year)	Dummy variable for each election & year included					
Wald – χ^2	21007,83	21086,72	21090,57	12522,11	12316,70	12526,08
R ²	0.90	0.90	0.90	0.84	0.84	0.84
Nobs	2352	2352	2352	2352	2352	2352

Note: t-values in parantheses; ***, ** and * indicate statistical significance on the 1, 5 and 10 percent level, respectively (two-tailed test).

Table 7: Determinants of left-wing and center-right populist parties' election performance: PDS and STATT Partei

Variable	PDS	PDS	PDS	STATT	STATT	STATT
<i>Population</i>						
Foreigners	-0,027 (-3,42)***	-0,027 (-3,31)***	-0,026 (-3,15)***	-0,007 (-0,54)	-0,006 (-0,46)	-0,005 (-0,35)
Change in foreigners	-0,016 (-1,33)	-0,020 (-1,70)*	-0,018 (-1,47)	-0,078 (-3,76)***	-0,087 (-4,15)***	-0,081 (-3,88)***
Young Germans	0,021 (1,28)	0,009 (0,52)	0,012 (0,67)	-0,024 (-0,88)	-0,040 (-1,31)	-0,032 (-1,12)
Elderly Germans	-0,076 (-5,39)***	-0,074 (-5,21)***	-0,076 (-5,39)***	-0,039 (-1,61)	-0,031 (-1,19)	-0,037 (-1,53)
Change in elderly	-0,018 (-0,62)	-0,010 (-0,36)	-0,017 (-0,57)	-0,055 (-1,04)	-0,062 (-1,18)	-0,053 (-1,01)
<i>Education/occupation</i>						
High-skilled	0,015 (1,12)	0,022 (1,63)	0,019 (1,38)	-0,056 (-2,52)**	-0,058 (-2,38)**	-0,056 (-2,49)**
Self-employed	0,005 (0,38)	0,010 (0,88)	0,006 (0,49)	-0,058 (-3,28)***	-0,055 (-2,92)***	-0,056 (-3,15)***
Blue-collar	0,022 (1,80)*	0,030 (2,40)**	0,027 (2,12)**	-0,044 (-2,34)**	-0,033 (-1,58)	-0,041 (-2,09)**
<i>Housing</i>						
Council flats	-0,014 (-4,20)***	-0,014 (-4,10)***	-0,014 (-4,10)***	-0,013 (-2,32)**	-0,012 (-2,14)**	-0,012 (-2,15)**
Housing space	-0,014 (-0,99)	-0,021 (-1,48)	-0,014 (-0,98)	0,009 (0,42)	0,005 (0,23)	0,009 (0,40)
Change in housing space	0,007 (0,47)	0,006 (0,41)	0,006 (0,40)	-0,040 (-1,63)	-0,052 (-2,12)**	-0,043 (-1,76)*
Persons per household	-0,011 (-3,80)***	-0,009 (-2,94)***	-0,009 (-2,99)***	-0,002 (-0,54)	-0,000 (-0,03)	-0,000 (-0,01)
<i>General socio-economic environment</i>						
Welfare reception	0,059 (2,81)***	0,059 (2,76)***	0,059 (2,78)***	0,051 (1,28)	0,054 (1,30)	0,048 (1,20)
Change in welfare reception	-0,113 (-5,35)***	-0,114 (-5,39)***	-0,112 (-5,29)***	-0,137 (-3,24)***	-0,144 (-3,34)***	-0,142 (-3,32)***
Employees	-0,034 (-2,70)***	---	---	-0,010 (-0,44)	---	---
Female employees	---	0,006 (0,44)	0,004 (0,30)	---	0,033 (1,25)	0,021 (0,81)
Male employees	---	-0,031 (-2,70)***	-0,028 (-2,48)**	---	-0,030 (-1,48)	-0,024 (-1,26)
<i>Labour market</i>						
Unemployment	0,114 (2,27)**	0,095 (1,87)*	0,110 (2,16)**	-0,056 (-0,61)	-0,127 (-1,25)	-0,081 (-0,85)
Change in unemployment	0,083 (1,76)*	0,096 (2,02)**	0,084 (1,78)*	-0,057 (-0,60)	0,003 (0,03)	-0,048 (-0,50)
Youth unemployment	-0,079 (-2,38)**	-0,080 (-2,41)**	-0,082 (-2,46)**	0,015 (0,25)	0,043 (0,66)	0,027 (0,43)
Change in youth unemployment	0,070 (2,46)**	0,070 (2,44)**	0,072 (2,53)**	-0,122 (-2,25)**	-0,142 (-2,53)**	-0,125 (-2,30)**
Unemployment, age 55-65	0,023 (0,80)	0,034 (1,20)	0,024 (0,85)	-0,068 (-1,31)	-0,010 (-0,18)	-0,059 (-1,12)
Change in unemployment, age 55-65	0,055 (2,07)**	0,041 (1,56)	0,054 (2,02)**	0,062 (1,17)	0,015 (0,28)	0,062 (1,17)
Wage	-0,000 (-0,78)	-0,000 (-1,01)	-0,000 (-0,77)	0,000 (5,70)***	0,000 (6,08)***	0,000 (5,73)***

<i>Crime</i>						
Criminal acts	---	0,00 (2,58)***	---	---	0,000 (1,45)	---
Change in Criminal acts	---	-0,001 (-1,11)	---	---	-0,002 (-1,94)*	---
Thefts	-0,000 (-1,97)**	---	-0,000 (-1,93)*	-0,000 (-0,32)	---	-0,000 (-0,19)
Change in thefts	-0,001 (-1,63)	---	-0,001 (-1,65)*	-0,005 (-3,36)***	---	-0,005 (-3,26)***
Violent crimes	0,000 (3,00)***	---	0,000 (2,94)***	0,000 (0,50)	---	0,000 (0,38)
Change in violent crimes	-0,000 (-0,93)	---	-0,000 (-0,85)	-0,001 (-1,93)*	---	-0,001 (-1,87)*
<i>Infrastructure</i>						
Cars	-0,000 (-1,63)	-0,000 (-2,24)**	-0,000 (-1,76)*	-0,000 (-1,05)	-0,000 (-1,04)	-0,000 (-1,24)
Kindergarten	0,000 (0,87)	0,000 (0,80)	0,000 (0,67)	-0,000 (-0,08)	-0,000 (-0,01)	-0,000 (-0,26)
Primary schools	-0,830 (-0,33)	-2,175 (-0,86)	-0,917 (-0,36)	-12,549 (-2,62)***	-15,710 (-3,04)***	-12,543 (-2,62)***
Secondary Schools	-3,415 (-1,46)	-1,727 (-0,73)	-3,142 (-1,33)	6,003 (1,38)	7,531 (1,63)	6,462 (1,48)
Constant	0,051 (3,58)***	0,046 (3,19)***	0,044 (3,02)***	0,041 (1,77)*	0,028 (1,11)	0,036 (1,49)
Election (year)	Dummy variable for each election & year included					
Wald – χ^2	5843,86	5822,19	5839,98	3760,21	3807,38	3765,01
R ²	0.79	0.79	0.79	0.87	0.87	0.87
Nobs	1568	1568	1568	686	686	686

Note: t-values in parantheses; ***, ** and * indicate statistical significance on the 1, 5 and 10 percent level, respectively (two-tailed test).

Table 8: A heuristic summary of spatial determinants of right-wing and protest voting

	NPD	DVU	REP	Rechte (total)	Schill	Pro DM/Schill	PDS	STATT	CDU	SPD
Immigrants and immigration		+	+	++	+	+	-	-	+	-/+
Young native population				+					-	
Elderly native population	+/-	+		+			-		+	+
Tertiary education	--	--			--			--	--	
Blue collar workers			++	++			+	-	--	++
Bad housing conditions			+	+		+/-	-	-	-	+
Welfare reception		+/-	-/+	++	-	-	+/-	-		-/+
Unemployment	++	+	-/+	-/+	-/+	+	++			+/-
Youth unemployment	-	+/-	+/-	+	+/-		-/+			
Unemployment of elderly			+		+	-				+
High wage jobs								+	+	
Criminal acts	-	+	+/-				+	-	-	+
Thefts		-/+	-		+		--	-		++
Violent crimes		+					+		-	
Private transport		+		+		+				
Elementary and primary education facilities				--				-	-	-
Secondary education facilities									-	+

Note: “++”/”+” = qualitatively positive correlation; “--”/”-“ = qualitatively negative correlation; “+/-“ = mixed effect

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