The Political Economy of Bank Bailouts

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ABSTRACT

In this paper, we investigate the effect of political determinants of public bailout policies. For a sample of 148 distress events of German savings banks, we find that politicians’ interests and ideology have a significant impact on their decision to bail out distressed banks. The probability of politicians injecting taxpayers’ money in a distressed bank is about 30 percent lower in the year before compared to the years after an election. High competition in the electoral process reduces the probability of a public bailout by 15 percent. We also show that ideology affects bailout decisions—capital injections are 18 percent less likely if the politician is a member of the conservative party. Politicians tend to refrain from capital injections if their community is highly indebted. Banks that are bailed out by politicians experience less restructuring and lower long run performance in the years following the event compared to banks that are bailed out by the saving bank association. Our findings have important implications on efficient design of banking regulation.

Keywords: political economy, bailouts, state-owned enterprises, elections

JEL Classification: G21, G28, D72, D73
1. Introduction

There is now a growing literature that examines the various economic trade-offs that accompany bank bailout decisions.¹ Proponents of bank bailouts argue that bank failures generate significant negative externalities that can have debilitating real effects. Thus, every effort should be made to avoid bank failures. Critics, on the other hand, voice concerns about the fiscal costs and moral hazard problems that accompany bank bailouts. Most of these discussions, however, omit an important factor that could affect bank bailout decisions, namely the personal interests of politicians involved in these decisions.² Politicians may follow their own interests (i.e., constituents and special interest pressure in order to increase their probability of re-election) or their own ideological preferences (e.g., the conservative principle of limited intervention in private markets; see Peltzman 1985, Poole and Rosenthal 1996). Several anecdotes suggest that the electoral cycle and the competitiveness of the electoral process affect public bailout policies, none clearer than the 10 billion Euro bailout of the state-owned BayernLB just three month after a state election—contrary to the pre-election claim that the bank would generate a profit in 2008.³ In this paper, we examine political considerations that could affect bailout decisions.

We provide empirical evidence about the determinants of public bailout policies. More precisely, we analyze capital injections into distressed savings banks by German local politicians to examine their motives and incentives. German savings banks are owned by their municipalities, and politicians tend to be members of their supervisory board. They thus have a significant control over the banks they govern and plausibly derive both pecuniary and non-pecuniary benefits from this control. Individual savings banks are interconnected by a state-level association that operates a safety net for these banks.⁴ In case of distress,

²A notable exception is Brown and Dinç (2005), who provide evidence that politicians in emerging countries delay bank failures until after the election.
³The bailout accounted for 2% of the state gross domestic product and for approximately 30% of annual state expenditures.
⁴This safety net does not provide deposit insurance, but a so-called institution guarantee. If the association believes that a specific bank has severe solvency problems it may organize a distressed merger (Sparkassen-
these associations decide whether to inject funds or restructure the respective bank (e.g., by cutting down operations of the distressed bank or by organizing a distressed merger with another savings bank). Since the funds available to the association are provided by all individual savings banks in the respective state, the safety net basically constitutes an insurance scheme. Each association has a board of experts that employs pre-defined criteria to decide about the respective interventions and subsequent restructuring activities. However, local politicians can circumvent this process by using taxpayers’ money to support the bank in distress. In this case, the politician keeps control over the savings bank in his municipality. This set-up allows us to differentiate between alternative motives of politicians that could drive bailout decisions.

Given that savings banks have an extensive safety net in place, it is a priori unclear why politicians frequently engage in bailouts. On the one hand, it could be that politicians—in comparison to the association that has to rely on broader perspective—have better information about the prospects of ‘their’ savings bank. Since local politicians are often members of the banks’ supervisory board, they should have a profound knowledge about the bank’s operations and potential causes for the distress event. By using taxpayers’ money, politicians can prevent the association from taking inefficient restructuring measures or merger decisions. On the other hand, it could be that local politicians base their decisions on personal interests (e.g., their probability of re-election) or ideology. In addition, politicians may value to have a savings bank under their control, since they can influence important credit allocation decisions, organizational policies and the distribution of the banks’ earnings (Sapienza 2004). If the association merges a distressed savings bank with another savings bank, politicians are likely to loose their influence within the new bank. While capital injections by the politician can prevent this outcome, voters may perceive the bailout as a waste of taxpayers’ money and may punish the politician in the subsequent election. In a sense, voters exert discipline on the politician who decides on the bailout.

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5 See Section 2 for details on the composition of the associations’ boards as well as the constitution of these associations.

6 About one third of the distress events in our sample constitute capital injections from the owner.
Our empirical setup allows us to differentiate between these two alternative explanations. If local politicians are better informed in comparison to associations, no statistical relationship between political variables such as the electoral cycle or the competitiveness of the political process and capital injections should exist. The same is true for ideology: If politicians’ decisions are only driven by local knowledge, we should not observe differences in bailout probabilities between conservative and non-conservative politicians.

For a sample of 148 distress events of German savings banks between 1994 and 2010, we find that politicians’ interests and ideology have a major impact on their bailout decisions. Politicians are about 30% less likely to inject capital into a distressed bank in the twelve months before an election as compared with the twelve months following an election. If there is high competition in the electoral process, a political bailout is 15% less likely. Also a politician’s ideology explains bailout decisions: Capital injections are 18% less likely if the politician is a member of the conservative party, reflecting the conservative ideology of limited state interventions. These findings clearly suggest local knowledge obtained from close proximity to the bank is not the main driver of politicians’ bailout decisions. Rather, decisions seem to be motivated by personal interests. The findings are robust to the inclusion of a wide set of macroeconomic as well as bank-specific control variables.

We further find that politicians in municipalities with a high fiscal deficit are less likely to bail out distressed banks. This can be interpreted as an example for the disciplining effects of fiscal federalism. Moreover, we do not find that personal connections between the board of the association and the board of the respective bank in distress affect the associations’ decision to support the bank. This suggests that the decision process at the association is rather transparent and follows pre-determined rules.

In the second part of the paper we evaluate consequences of political bailouts. In particular, we compare developments at banks that received capital injections from the owner to developments at banks that were supported by the association. Such a comparison could be subject to selection bias for two reasons: First, we do not have accounting information on banks that were involved in a distressed merger following the event. Since the association may decide to organize distressed mergers for those banks with the worst prospects, com-
paring the remaining association bailouts to the average owner bailout could suffer from a
bias. Second, there might be unobserved variables that jointly affect the politician’s bailout
decision and the future performance of the bank.

In order to address the first concern we focus on a sample of banks that do not have a
potential merger partner in their association. Further, we use the fact that political and ide-
ological variables are important determinants for politicians’ bailout decisions. Apart from
their influence on the probability of a bailout by the politician, the dummies for the elec-
toral cycle, for competitive counties and for conservative bank chairmen should not have an
influence on a bank’s future performance. Therefore, we can use these variables as instru-
ments. The comparison of the long-run performance of banks bailed out by the owner and
banks bailed out by the association yields a consistent pattern: Banks that obtained support
from the association perform better and are also better capitalized in the years following the
distress event.

It could be that politicians are not primarily concerned about the health of the bank
itself, but rather care about the general economic development within their region. As a final
piece of evidence, we compare the development of county-level macroeconomic variables
around the distress events. Following the event, aggregate lending increases on average in
counties where the savings bank was bailed out by the owner, while it decreases in counties
where the bank was supported by the association. This trend is reversed in the long run as
the loans-to-GDP ratio starts to decline also in counties with owner bailouts from the fourth
year after the event onwards. Following the distress event, the share of all loans within a
given county that are extended by state banks increases in counties with owner bailouts and
decreases in countries with support measures from the association. Both in counties with
bailouts from the owner and in counties with support measures from the association, the
GDP growth rate is relatively stable. Similarly, there are no significant changes in the share
of employees within the population. Overall, we do not observe a better macroeconomic
performance of counties in which the bank distress event was resolved by the owner as
compared with the association.

The German savings bank sector provides an ideal set-up for our analysis for sev-
eral reasons. Firstly, savings banks in Germany represent a relatively homogeneous group. They operate in predefined geographic regions and are small in comparison to commercial banks. Consequently, bailout decisions concerning these banks are not distorted by too-big-to-fail arguments. Secondly, the savings bank organization has an extensive guarantee system that ensures the solvency and liquidity of its member institutions. Assuming that the organization’s decisions on capital injections and distressed mergers are driven by economic considerations, they provide an ideal benchmark against which the decisions by local politicians can be evaluated. Thirdly, institutional quality in Germany is rather high (e.g., corruption is extremely low). Therefore, the impact of political and ideological factors that we examine is not distorted by other institutional issues. Finally—and perhaps most importantly—Deutsche Bundesbank provides detailed information about distress events of savings banks that allows us to identify the capital injections of different parties as well as other restructuring measures around the event.

Our paper has important policy implications on the optimal proximity between banks and politicians or regulators that decide on bailouts. Although close proximity between politicians and banks might result in local knowledge for the decision maker, we document that outcomes are driven by personal incentives and ideology. A larger distance between policymakers and banks requires policymakers to rely on broad perspective. However, a larger distance is also likely to reduce personal stakes of politicians, and may therefore result in more efficient decisions on financial sector interventions. Our findings can be considered as relevant for the debate about the optimal level of banking supervision in the United States (Agarwal et al. 2012b), or the discussion about a unified banking supervision within the Euro zone. Since bailout decisions have dramatic consequences on the resulting market structure as well as on banks’ risk taking, an understanding of politicians’ incentives is of major importance.

This paper is, to the best of our knowledge, the first one that explicitly examines how political incentives affect bank bailout decisions in a developed country. The most related paper is Brown and Dinç (2005), who find for a sample of 21 emerging markets that failures

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7See Dam and Koetter (2012), Gropp et al. (2011).
of the largest banks in these countries are significantly more likely directly after an election as compared with the time before an election. While their paper is about the delay of bad news about bank failures prior to elections, we provide evidence that local politicians exploit their power to keep control of a bank if political circumstances allow it. Furthermore, we broaden the analysis by investigating not only the influence of the electoral cycle, but also the one of political competition and ideology. Another example of political influence on bank bailout decisions is provided by Imai (2009). He shows that bank regulators in Japan delay declarations of bank insolvency in counties that support senior politicians of the party in power.\footnote{The influence of political incentives on bailout decisions is not constrained to the banking sector. Faccio et al. (2006) find that firms in 35 countries are more likely to be bailed out by the government if one of their top officers or a large shareholder is a member of the national government or parliament.} Dinç (2005) and Sapienza (2004) show that government-owned banks increase their lending in election years relative to private banks.\footnote{For Germany, Vins (2008) and Englmaier and Stowasser (2012) examine how savings banks adjust their behavior around elections. They find that layoffs of employees, closures of branches or merger activities of these banks are significantly less likely prior to an election. At the same time, savings banks increase their lending around elections in order to induce favorable economic outcomes for the politicians.}

Our paper also relates to the current literature on public bailout policies and moral hazard. Dam and Koetter (2012) show that bailout expectations among German banks that are partly explained by political variables influence the risk-taking behavior of these banks. Banks that are more likely to be bailed out engage in additional risk-taking. Gropp et al. (2011) argue that an increase of the bailout probability of a bank increases risk taking incentives of the competing banks since government guarantees distort competition.

Finally, our paper is related to a broader literature on the political economy of finance. Especially in the aftermath of the recent crisis, several papers examine how legislation on the financial industry is affected by lobbying of special interest groups and voter interests (Mian et al. 2010, 2012, McCarty et al. 2010). Lobbying by financial institutions affects the regulatory environment and might have negative consequences for financial stability (see Romer and Weingast 1991 for the U.S. in the 1980s). Kroszner and Strahan (1999) provide evidence that special interests of the financial industry affected the timing of bank branch deregulation in the U.S. Similarly, Nunez and Rosenthal (2004) show that both ideology and interest group interventions are important for U.S. legislation on bankruptcy. In another
recent paper, Agarwal et al. (2012a) examine whether the foreclosure decisions of banks during the recent crisis reflect these banks’ political concerns and find that banks delayed foreclosures on mortgages located in districts whose representatives are members of the Financial Services Committee in the U.S. House of Representatives. Again, politicians and bankers seem to affect each others actions. Compared to the papers mentioned above our study takes a somewhat different approach. Rather than investigating how decisions of politicians are influenced by the financial industry, we concentrate on politicians incentives to keep control of a bank that is currently in their sphere of influence.

The remainder of the paper is organized as follows. The next sections provides an overview of our institutional setup. In Section 3 we describe the construction of our dataset. Results on the influence of political variables on bailout decisions among German savings banks are presented in Section 4. In Section 5, we examine how the consequences of bailouts depend on the type of the bailout. Finally, we conclude in Section 6.

2. Institutional background: Local politicians and the German savings bank sector

The German financial sector can be classified as bank-based, with a universal banking system. One of the particularities of the German banking sector is its so-called three-pillar structure, referring to the three different legal ownership forms of German banks. The three forms are savings banks, private banks and credit cooperatives. The focus in this paper is on savings banks that granted 24.3% of all corporate loans and 25.4% of all consumer loans in Germany in 2010.\textsuperscript{10} At this point in time, the savings bank association consisted of 429 individual banks with a combined balance sheet total of €1,084 billion, 15,600 branches and about 250,000 employees.

The structure of the German savings banking sector is illustrated in Figure 1. Each savings bank operates in a predefined geographic area. By statutes, the savings banks do

\textsuperscript{10}All numbers are taken from Sparkassen-Finanzgruppe (2010). The German market for corporate loans had a volume of €1,306 billion and the German market for consumer loans had a volume of €229 billion in 2010. The shares given in the text are calculated as percentages of these volumes.
not compete with each other and only operate in the geographic region of the municipality that formally owns the bank. Since savings banks are owned by the local municipalities, the head of the municipal government, who is either a city mayor or a county administrator, is the chairman of each savings bank’s supervisory board. We exploit this link between politicians and banks in the empirical analysis of our paper. The position as a chairman gives local politicians a strong influence on the appointment of the banks’ management, the distribution of its earnings and—as they have a say on the allocation of large loans—the distribution of credit.\textsuperscript{11} The supervisory board has about 15 members and the members besides the chairman consist of representatives from local authorities as well as savings bank employees. The representatives from local authorities make up about two thirds of the board members and are in most cases politicians from the local parliament.

The individual savings banks are connected through twelve savings bank associations at the state level.\textsuperscript{12} These associations operate guarantee funds in order to ensure the liquidity and solvency of their member institutions in case of distress. The guarantee funds function like an insurance scheme: If one of its members gets into distress, the other banks in the association have to step in and provide support. Specifically, the resources for the guarantee funds are provided by the individual savings banks within the association.\textsuperscript{13} The main support measures are capital injections and debt guarantees. If a savings bank receives support from the association it has to agree on a restructuring plan that may include an organizational restructuring, a dismissal of the management and—in the worst case—a merger of the bank with another bank in the association.\textsuperscript{14} In this case, the chairman of the bank

\textsuperscript{11}Since savings banks are on average small institutions, large loans bear a particular risk for these banks. Therefore these banks generally have a credit committee in place which has to approve loans made by the bank that exceed a certain volume. Local politicians are often members of this credit committee.

\textsuperscript{12}The associations do not exactly match the 16 German states. For example, four of the former GDR states form a single association. The twelve organizations also form the “Deutscher Sparkassen- und Giroverband” at the federal level.

\textsuperscript{13}The savings bank sector operates a three-layer liability scheme where the regional funds constitute the first layer. If the funds of an individual association are not sufficient to support one of its member institutions the other associations have to step in due to a supraregional compensation scheme. If these funds are still not sufficient, there is a joint liability scheme with central savings banks (“Landesbanken”) and central building societies (“Landesbausparkassen”).

\textsuperscript{14}The decision on support measures is made by the board of the association, which is elected by the assembly of the association. Each member institution sends three people—usually the chairman of the board, the director of the bank and another member of the board—to the annual assembly of their association. At these meetings, members of the board of the association are elected among participants for terms that last for
will lose her/his position. Also a restructuring plan can pose severe restrictions on a bank’s operations and, hence, constrains the power of the chairman. Alternatively, politicians can step in and use taxpayers’ money to inject capital into the savings bank. In this case, the supervisory board can decide about potential restructuring measures without any intervention from the association. Hence, using taxpayers’ money to save the banks allows politicians to prevent restructuring measures by the association. As we will document in the subsequent section (Section 3.3), there is considerably less restructuring in cases where the local politician instead of the association organizes the bailout of the savings bank. The main task of our empirical analysis is to understand the motives of politicians who inject money into a savings bank. In particular, we investigate whether their decision is based on superior information about the economic situation of the savings banks or political considerations.

Since supervisory boards of our sample banks are chaired by local politicians, we briefly summarize the German political system. Germany is organized as a parliamentary democracy with three layers of government: The federal republic, 16 states (“Bundesländer”), and 402 county districts consisting of 295 rural counties that are headed by local administrators, and 107 urban municipalities that are headed by city mayors. Separate elections on each layer take place in regular intervals. The focus of our paper is on the elections in rural countries and urban municipalities that take place every five years.\(^{15}\) County/city elections take place at the same point in time within a state, but these points may differ across states. However, several German states have their county/city elections in the same year, so that we identify four main electoral cycles that correspond to the relevant elections for most of our sample banks.\(^{16}\)


\(^{16}\) Laws on these elections are enacted at the state level. While the electoral cycle for county/city parliaments is five years in almost all German states (with the exception of Bavaria and Bremen, that have a six year and a four year cycle, respectively), there are some differences in the elections of local heads of government. In many German states mayors or district administrators are directly elected in separate elections that take place on the same day as the election of the local parliament. However, in some states the terms of mayors or district administrators are longer than the terms of local parliaments, whereas in other states the local head of government is appointed by the local parliament (and not directly elected). In order to be consistent across states, we focus on the timing of parliamentary elections on the county or city level in the empirical analysis. These elections are important for the bank’s chairman as well as other members of the bank’s supervisory board.
3. Data

Our analysis covers the German savings bank sector over the period from 1994 to 2010. We combine several confidential datasets from the Bundesbank’s supervisory and statistics departments to compile a unique dataset that allows us to cleanly identify distress events of savings banks. In the first part of this section we explain the construction of this distress event variable. In the second part we describe bank-level and macroeconomic variables, while the third part illustrates restructuring activities around the distress events in our sample. The final part introduces the political variables and explains the motivation behind them.

3.1. Distress events

We define a particular savings bank to be in distress in a given year whenever it either receives external support (in form of capital injections and/or guarantees) from the owner and/or association or when it is taken over by another savings bank in a distressed merger. Identifying distress events in the savings bank sector is cumbersome, since not all kinds of potential support measures can be identified from banks’ balance sheets (e.g., guarantees provided by third parties do not show up in the balance sheet). Furthermore many savings banks have been involved in mergers without being in distress. We therefore combine four sources from Deutsche Bundesbank’s supervisory data to cleanly identify distress events; that is, the Bundesbank’s prudential data base for banking supervision (BAKIS), the monthly balance sheet statistics (BISTA), the borrowers’ statistics, and the Bundesbank’s data base on distress events (see Appendix for a detailed description of the four underlying datasets). Additionally, we consult local media coverage on distress events obtained from the GENIOS data base in order to verify our event dates.

First, we identify capital support measures by the owner (i.e., local politicians) by exploiting a peculiarity in savings banks’ balance sheets. For historical reasons, the equity of these banks usually consists solely of contingency funds (so called “Sicherheitsrücklage”). These funds were originally provided by the owner of the bank in the year of foundation and
then accumulated over the years out of the bank’s retained earnings. However, if the savings bank—besides its equity in the contingency funds—also has subscribed capital unequal to zero, then this usually indicates an undisclosed participation of the bank owner (so-called “stille Einlage”). We therefore define an increase in subscribed capital that cannot be explained by takeovers or restructuring of equity positions as capital injections from the bank owner.\textsuperscript{17} By using historical data of subscribed capital from the monthly balance sheet data (BISTA) we are able to identify the size of the capital injection as well as the particular month in which the event occurred.

Second, we code capital support measures by the savings bank association. Whenever one of the associations provides support to a savings bank—most often in the form of guarantees—this event is recorded in the so called “Sonderdatenkatalog 1” of the BAKIS database.\textsuperscript{18} The data source is, however, only available at annual frequency. To determine the month of these events within a given year, we consult two further databases: First, we obtain data on capital adequacy ratios from the monthly balance sheet database BISTA;\textsuperscript{19} and second, we identify large write-offs from the borrowers’ loan statistics that is available on a quarterly basis.\textsuperscript{20} We are therefore able to verify our identified events from two distinct Bundesbank data sources. In those cases in which we can only identify the respective quarter, we always assign the mid month of the respective quarter as the event month. We cross-check our event dates with media coverage on local distress events obtained from the GENIOS data base and find that the dates are broadly consistent with the coverage in the local press. There are some cases where savings banks received support from the association and the owner within the same year (four cases); we assign these events to the source that

\textsuperscript{17}In some German states the savings bank law allows undisclosed participation not only from the owner of the bank, but also from the savings bank association. However, this is the rare exception and we rule out these cases using the BAKIS database as described in the subsequent paragraph.
\textsuperscript{18}Banks are legally bound to report this information to Bundesbank and BaFin. In contrast to pure balance sheet information this dataset contains confidential supervisory information.
\textsuperscript{19}Large increases in the capital adequacy ratio in a certain month indicate that the savings bank received capital support at this time. Capital adequacy ratios in the BISTA are available on a monthly basis until the end of 2007, and on a quarterly basis from 2008 on.
\textsuperscript{20}Large write-offs on loans in a given month indicate that the savings bank experienced a distress event at this time. Loan portfolio write-off data is available from 2002 on in the borrowers’ statistics; therefore, it can be used to double-check the information on the timing of bailout events, in particular by the banking association, for roughly half of the time-period of our dataset. For the period before 2002 we have to rely on the evolution of the capital adequacy ratio in order to identify the timing of the distress event within a year.
provided the larger amount of funds.\footnote{All results also hold if we exclude these cases.}

Third, we obtain information on distressed mergers from the Bundesbank database on distress events.\footnote{As the distress database is only available until 2006, we define distressed mergers in the years 2007-2010 as passive mergers where the bank that was taken over experienced a severe distress event in the three years before the merger (i.e., a moratorium, a capital support measure, or a very low capital ratio).} A takeover of a distressed savings bank is organized by the savings bank association which identifies another savings bank in close geographic proximity to acquire the bank in distress. While capital injections as well as provisions of guarantees occur right after the bank falls short of regulatory capital (the distress event), there is generally a time gap between the actual distress event and the merger. In order to identify the actual date of the distress event we once more rely on large write-offs from the borrowers’ loan statistics (as described above). For the savings bank that had a distressed merger before 2002 (the year when the borrowers’ statistics database was initiated) we consult local media coverage from the GENIOS data base where it is available. For the remaining cases we have to make an assumption about the date of the distress event: We assume that the distress event occurred in December of the year before the actual merger took place.\footnote{We have also experimented with setting the month at March, June or September of the year before the distressed merger. Our results are unaffected by this choice.} As we are mainly interested in identifying whether a distress event took place before or after an election, this assumption is critical only for those cases where the distress event occurred within an election year. These are very few cases and excluding them does not affect our main findings.\footnote{Out of the distress events resolved by the saving banks association, we have to make an assumption for seven events that occur within an election year. Assuming that these events took place in December actually biases our results against finding a significant effect of the electoral cycle, as some of them might have happened before the election and our main argument is that directly before an election support measures by the association are relatively more likely than support measures by the owner. Hence, assuming that these events took place in December is the most conservative assumption we can make.}

Overall, we identify 148 distress events of German savings banks during our sample period from 1994 to 2010. Among these 148 distress event, more than one third was resolved by capital injections from the owner (55 cases). The remaining 93 events were dealt with by the association. Out of these 93 cases, 44 banks experienced a distressed merger in the year following the distress event (see Table 1, Panel A). A definition of all variables is provided in Table A.1 in the Appendix.
3.2. Bank and macroeconomic variables

Annual bank balance sheet data for all German savings banks is based on the unconsolidated balance sheet and income statement reports provided by the BAKIS database.\textsuperscript{25} Table 1, Panel B, provides sample statistics for balance sheet items used in the empirical analysis. We compare the values of banks that had a distress event during our sample period with those of the average savings bank (633 in total). Banks that received capital injections from the owner are larger than average, both in terms of total assets as well as in terms of total assets divided by county-level GDP, while banks that were supported by the association are of similar size as the average bank.\textsuperscript{26} Further, the bank’s regional market share (proxied by the share of branches within the county) is slightly higher than the sample mean for banks that received support from the owner and significantly lower than average for banks that received support from the association. Overall, these descriptive statistics suggest that banks that are relatively important (as measured by size) tend to be bailed out by the owner.

Not surprisingly, the ratio of total equity to total assets is lower for banks that experienced either type of support measure. Moreover, these banks also have a lower ROA and a higher ratio of non-performing loans to customer loans on average. In contrast, the deposit ratio (savings deposits, term deposits, and time deposits to total assets) is significantly lower for banks that received support from the owner. The table further reports statistics on the amount of loans granted by the bank to its owner divided by county-level GDP, which is slightly higher for banks that obtain support measures from the owner as compared to those banks that are supported by the association.

We define an additional variable that we use in the empirical analysis for the 148 distress cases. The dummy variable \textit{Bank Chairman in Ass. Board} indicates whether the distressed bank’s chairman is also a member of the board of the association.\textsuperscript{27} As the board

\textsuperscript{25}We apply a very thorough merger treatment to the dataset: After the merger of two banks we artificially create a third bank (for the time after the merger) in the dataset. Note that the merger treatment causes the total number of banks in the dataset to exceed the maximum number of banks in a given time period.

\textsuperscript{26}A definition of all variables is provided in Table A.1 in the Appendix.

\textsuperscript{27}Information on the composition of the boards of the association at each point in time is hand-collected from the respective annual reports of the associations. We carefully match association board members with chairmen of the individual banks by comparing both the name of the chairman as well as the county/city he is
of the association makes the decision on potential support measures by the association, the bank’s chairman might be able to influence this decision if he is a member of this board. Overall, the politician is also member of the association board in 20% of the savings banks considered.

Our regional variables are gathered from various data sources. We obtain information on county level GDP per capita, its growth rate as well as the ratio of government debt to GDP on the county/city level from the 16 German State Statistical Offices. Descriptive statistics for these variables are provided in Panel C of Table 1. On average, banks experiencing a bailout by the politician are located in a municipality with lower GDP growth in comparison to the municipalities of banks that are bailed out by the association. Furthermore, municipalities where politicians conduct bailouts have a higher GDP per capita and are less indebted than the average municipality.

3.3. Restructuring efforts following bailouts

Having introduced bank-level variables, we can illustrate differences in restructuring between bailouts by politicians and bailouts by the association. Table 2 presents the growth rates in customer loans, employees, personal expenditures and the number of branches of the bank around the bailout events. As we have no accounting information on the operations of savings banks that were merged with other banks, we have to exclude these banks for this table. If politicians try to avoid painful restructuring measures of savings banks in distress, consequences for stakeholders should be more severe for banks that receive capital support from the association.

The first line of the table shows the average annual growth rate prior to the event of those banks that experienced the respective type of distress event during our sample period. For example, banks that received support from the association during our sample period had an average customer loan growth rate of 6.3 % in the years between the beginning of our sample period in 1994 and the year of the distress event. Similarly, column 2 shows that
the average growth rate was 5.8% for those banks that received capital injections from the owner and column 3 shows that the difference between the two groups of banks is not significant. In the bailout year, the average growth rate is significantly lower than the pre-event average for both types of events. However, the decline in the average growth rate is more than twice as large if the funds are provided by the association, and column 3 shows that customer loan growth in the bailout year is significantly higher if the bank is saved by the owner. The effect is similar in the year following the bailout, in the second and even in the third year after the bailout. This indicates that the restructuring plan imposed by the association has severe consequences for the bank’s customers. This effect is dampened if the support measures come from the owner of the bank. Politicians try to avoid consequences for the customers of the bank, a behavior that is consistent with the personal interest explanation if one keeps in mind that the customers of the bank are in many cases identical to the politician’s constituents.

A similar effect can be observed if we look at employee growth rates: Except for the second year after the bailout, there is no significant decline in the employee growth rate for banks that receive capital injections from the owner, which is rather surprising given that distress events usually lead to an organizational restructuring. In contrast, employee growth rates are significantly lower around capital support measures from the association. As expected, restructuring a bank in distress involves layoffs. Unfortunately we have information on the number of branches of the banks in our sample only until 2004, which reduces the number of observations. However, evidence points into the same direction as with the employee growth rate: The decline in the number of branches seems to be more severe for support measures from the association. The growth rate of personnel expenditures is somewhat lower around both types of events, and the difference between the two is not significant. To a certain extent, also employees at banks that are supported by the owner suffer from the distress event. Overall, however, the evidence suggests that politicians try to limit these negative consequences for stakeholders in the bank by conducting almost no restructuring activities.
3.4. Political variables

As explained in Section 2, local politicians often chair the supervisory board of the savings bank in their municipality. We hand-collect information on the identity and the position of distressed savings banks’ chairmen from the banks’ annual reports as published in the Bundesanzeiger.\textsuperscript{28} We use various internet sources in order to determine the party membership of these chairmen. Results and dates of elections on the county/city level are obtained from the 16 German State Statistical Offices. We carefully match counties and cities with municipal owners of our sample banks.\textsuperscript{29} In this way, we are able to obtain information on the elections in all municipalities that own one of our sample banks.

In the following analysis we test whether there is a statical relationship between a politician’s decision to provide support to a bank and the electoral cycle. To do so, we define \textit{Electoral Cycle Dummies} as follows: The dummy variable $D(0\text{-}12\text{ months})$ takes a value of one during the 12 months after the local election and zero otherwise. The dummy variables $D(12\text{-}24\text{ months})$ takes a value of one for the time from the $12^{th}$ to the $24^{th}$ month following the local election and zero otherwise. The dummy variables $D(24\text{-}36\text{ months})$ and $D(36\text{-}48\text{ months})$ are defined accordingly. The 12 months preceding an election serve as the benchmark category against which the other time periods are evaluated.

Additionally, local politicians who care about their probability of being re-elected may base their bailout decision on the political competitiveness of their city/county. We thus define the variable \textit{Competitive County} as follows: We calculate the vote share margin between the first and the second party within the county/city from the respective state election.\textsuperscript{30} We then define a dummy that is equal to one if the vote share margin is smaller than the median and zero otherwise. We take this as a proxy for political competition within the county/city:

\textsuperscript{28}This information is available online from 2006 onwards (www.bundesanzeiger.de). For earlier observations, we consulted microfiche versions of the Bundesanzeiger provided by the university and regional library in Bonn.

\textsuperscript{29}In cases where several municipalities jointly own a savings bank there is generally one dominant county or city that owns the largest share of the bank. We account for this by matching the respective bank to the county or city in which its headquarters are located.

\textsuperscript{30}We use county/city level state election results as a proxy for political competitiveness as these elections are relatively similar across states so that results from different states can easily be compared to one another.
The smaller the vote share margin between the first and the second party, the more intense the political competition and the more effective the disciplining role voters can exert on politicians.

As laid out in the introduction, a politician’s bailout decisions might be influenced by his/her ideology. To proxy for a politician’s ideology we define the dummy variable $\text{Cons}$. 

**Bank Chairman:** The variable is equal to one if the chairman of the bank is a member of the German conservative party (“CDU/CSU”). A fundamental conservative principle is the one of limited government intervention in markets. If politicians act according to this principle, we would expect less capital injections from the owner if the chairman of the bank is a CDU/CSU member.

In Table 1, Panel D, we display the relationship between the political/ideological variables introduced in this section and our identified distress events. The relative frequencies of capital injections by politicians display a clear pattern over the electoral cycle: In the 12 months before the election, the share of owner-bailouts in all distress events is considerably lower (15.4 %) than in the 12 months following the election (50.0 %). Further, the likelihood of a bailout by the politician in a competitive county/city is around 31 % conditional on bank distress, compared with 44 % in non-competitive counties/cities. Finally, out of our 148 distress events, 88 cases occurred at banks where the chairman is not a member of the conservative party (“CDU/CSU”), while the other 60 cases occurred at banks with a conservative party chairman. Capital injections from the owner are much less frequent when the chairman of the bank is a politician from a conservative party. This seems to be in line with the conservative ideology of limited state intervention.

To sum up, the descriptive analysis suggests a strong relationship between political and ideological variables and politicians willingness to use taxpayers’ money to support banks in distress. This relationship should not be present if politicians base their intervention decisions on superior information obtained in their roles as bank chairmen.
4. Political determinants of bank bailouts

We start with investigating the timing of distress events by applying a hazard model. We proceed by modeling the owner’s decision to bail out a bank conditional on distress. Finally, we end the section by examining the impact of the fiscal situation of the municipality as well as other political factors on the owner’s bailout decision.

4.1. The timing of distress events

Figure 2 displays the distribution of distress events over the electoral cycle. Panel A focuses on capital injections from the owner and display a clear pattern over the electoral cycle: Capital injections from the owner are less likely in the 12 months before an election, while support measures by the association are relatively evenly distributed over the cycle (Panel B). Panel C shows the distribution of all 148 distress events over the electoral cycle. Although the bar for the 12 months before the election is a bit lower than the other ones, we do not observe a clear relationship between bank distress events per se and the electoral cycle in Germany. This is in contrast to findings for emerging economies (Brown and Dinç 2005), which might be explained by a strong supervision of the banking sector, requiring the disclosure of monthly capital adequacy ratios. In such a supervisory environment bankers do not have the opportunity to delay distress events.

We formally test whether the electoral cycle influences the timing of bank distress events by using a hazard model. Potentially, if banks know about differences in politicians’ willingness to bail them out, they might have an incentive to delay distress events. We define the period from the beginning of our sample in 1994 until a distress event as the time until distress for each bank. Thus, the hazard rate, \( h(t) \), is the probability that a bank distress occurs at time \( t \), given that no distress occurred until then. Following Brown and Dinç (2005), we test whether distress events depend on the electoral cycle, using an exponential hazard model:

\[
h_i(t) = \exp(\beta_0 \cdot x_{it-1} + \beta_1 \cdot \text{Electoral Cycle}_{it} + \beta_2 \cdot \text{time}_t + \beta_3 \cdot \text{association}_i) \tag{1}
\]
where $x_{it-1}$ denotes a vector of covariates for bank $i$ at time or duration $t$; $\beta$ is a vector of unknown parameters to be estimated. The vector $Electoral Cycle_{it}$ includes our dummies for the electoral cycle. In the case of no failure, the electoral cycle dummies take a value of one if the bank’s accounting year $t$ falls into the respective period. The regression also includes time as well as association fixed effects. Since the cycles of the local elections are to a large extent synchronized (see Section 2), year fixed effects would absorb the $Electoral Cycle_{it}$. Therefore, we define time fixed effects which take the value of one during one particular election cycle (5 year interval) and zero otherwise (see Section 2). Standard errors are clustered by year. \(^{31}\) We also employed a simple probit model instead of the hazard model, which yields very similar results.

The regressions include all bank-year observations for savings banks (those that experienced a distress event as well as those that did not), starting in 1994. Table 3 presents our findings for the relationship between all distress events and the electoral cycle. In column 1 we only include time fixed effects as well as the $Electoral Cycle_{it}$ dummies. None of the dummies are significant. Thus, there is no relationship between the timing of distress events of state owned banks and the electoral cycle in Germany. This observation is unchanged if we add control variables in column 2. The control variables indicate that distress is less likely for large (measured by market share), profitable banks and those banks that take a higher fraction of customer deposits. Association dummies are included in column 3 to control for the fact that economic conditions differ among states. Results remain unchanged: There is no statistical relationship between the electoral cycle and distress events.

Having shown that the occurrence of distress events does not depend on the electoral cycle, we now turn to politicians’ decisions to inject money into a distressed bank. We therefore focus on the 148 distress cases and examine how political and ideological affect a politician’s decision to bail out one of these banks.

\(^{31}\)Alternatively we cluster standard errors by association. This results in lower standard errors.
4.2. The impact of political factors on the bailout decision by politicians

It is a priori unclear why politicians should conduct capital injections into savings banks in distress, as the savings bank organization—as described in Section 2—has an extensive guarantee system. By modeling a politician’s bailout decision we aim at differentiating between two possible explanations for this decision: Either the politician has more information about the economic situation of the bank and—therefore—aims to avoid restructuring measures by the association; or the politician cares about his/her probability of re-election and/or his/her ideology and therefore bases his decision on these factors.

Figure 3 displays the frequency distribution of owner bailouts over the electoral cycle on a biannual basis. Only one out of 55 cases of capital support by the owner occurs in the six months directly preceding an election. This suggests that politicians are reluctant to use taxpayers’ money in order to support a savings bank in distress right before an election.\(^\text{32}\) The relative percentage of owner’s injections to total distress events is shown in Figure A.1. Again, there is a clear indication that the probability of injecting money into a distressed bank is considerably lower in the year before the election.

To test these patterns in a formal way, we use a linear probability model in order to assess the relative likelihood of the two possible outcomes: bailout by the politician and support measures by association. We use the 148 distress cases in our sample to estimate the following equation:\(^\text{33}\)

\[
Event \ Type_{ijkt} = association_{j} + time_{t} + POL_{kt}'\beta + B_{it-1}'\gamma + C_{kt-1}'\delta + \epsilon_{ijkt},
\]

where \(i\) denotes the individual bank, \(j\) the association to which the bank belongs, \(k\) the county or city of the bank, and \(t\) the year in which the distress event occurred. The dependent variable is a dummy called \(Event \ Type_{ijkt}\) and takes the value of one if the bank

---

\(^\text{32}\)Note that Figure 3 is identical to Panel A of Figure 2, using a 6 months interval instead of a 12 months interval. We used a 12 months interval in Figure 2 as we cannot identify the exact timing within the year for some distressed merger events. When we add these events to the first half of the year we create an artificial pattern of more events in the first six months compared to the second six months (and the opposite if we add these events to the second part of the year).

\(^\text{33}\)Using a nonlinear logit model gives results that are very similar to the results from our linear specification (see Table A.2).
distress is resolved by the politician and the value of zero if the distress is resolved by the association.\textsuperscript{34} The political variables include dummy variables for the electoral cycle, the political competition within the county and the ideology of the politician. They are summarized in the vector $POL_{kt}$. Bank level control variables are denoted by the vector $B_{it-1}$ and include the bank’s relative size to county/city GDP, the capital ratio, the return on assets, the non-performing loans ratio, the market share, and the deposit ratio. They are lagged by one year in order to obtain pre-event values. Regional control variables are also lagged by one year and include the level and the growth rate of county-level GDP per capita. They are summarized in the vector $C_{kt-1}$. In our most stringent specification, we include two sets of dummy variables, one of them indicating the association to which the bank belongs and the other one indicating time dummies. The specification further includes a random error term $\varepsilon_{ijkt}$. The primary variables of interest are the political variables in the vector $POL_{kt}$. Coefficients for these variables should be insignificant if politicians’ decisions are driven by informational advantages, while they should be significant if decisions are driven by politicians’ personal interests.

Table 4 presents estimation results for Equation (2). We start with a benchmark specification without any political variables in column 1. The regression shows that larger banks or banks with a higher deposit ratio are less likely to receive capital injections from the owner. The opposite is true for banks with a higher local market share. One could argue that these banks are more important for regional development within the county and therefore the owner has a greater interest in keeping control of the bank and wants to avoid a painful restructuring plan or even a distressed merger. Finally, the regression shows that counties or cities with higher GDP per capita growth are less likely to use taxpayers’ money in order to bail out a savings bank in distress.

We proceed by stepwise including the political variables into the regression model. Findings confirm our descriptive analysis presented in Panel D of Table 1. Political variables seem to have a strong influence on the type of the bailout for a savings bank in distress. In the twelve months before an election, the probability that a politician resolves a distressed bank

\textsuperscript{34}Cases in which both the association and the owner inject money into the bank are classified as the category that contributed the larger amount of capital. See Section 3.1 for details.
is 23 to 36 percent lower as compared to the other years in the electoral cycle (column 2). Politicians are about 15 percent less likely to support a distressed bank if political competition within the county or city of the bank is relatively high (column 3). This is in line with the personal interest explanation: Voters exert more discipline if the political competition is more intense. Although a politician might want to prevent restructuring of a distressed bank in order to keep it under her control, she cannot do so if this will be perceived as a waste of taxpayers’ money and hence be punished in the next election. The more intense the political competition, the more severe the threat of punishment. Further, column 3 shows that capital injections from the owner are about 18 percent less likely if the bank chairman is a member of the conservative party, which is in line with the conservative ideology of limited state interventions. The results hold when we run a horse-race of all political variables in column 4. The explanatory power of the model significantly improves when the political variables are included: The $R^2$ increases from 0.240 in the benchmark case to 0.341. The results are further robust to the inclusion of association dummies (column 6).

4.3. Fiscal and other factors affecting the bailout decision of politicians

How does the fiscal situation of the local municipality affect the decisions of politicians to resolve bank distress? On the one hand, politicians of municipalities with a high level of fiscal debt are less capable to further increase spending. On the other hand, a high level of fiscal debt could indicate a politician’s attitude for fiscal discipline.

As indicated in the previous section, politicians are less likely to support banks whose assets are relatively large as a fraction of the municipalities’ GDP (see also Table 5, columns 1 and 2). Since bailouts of large banks tend to be expensive, this result is likely to reflect fiscal boundaries of local politicians. Once we include a measure for the fiscal deficit of the community we obtain a significantly negative relationship: Politicians of highly indebted communities are less likely to resolve bank distress (columns 3 and 4). This is an example of the disciplining effect of fiscal federalism.

We examine further variables that might affect politicians’ willingness to bail out
banks. In columns 5 and 6, we include a proxy for personal connections between the association board and the board of the respective bank in distress (Bank Chairman in Ass. Board). This variable is equal to one if the chairman of the bank is also a member in the board of the association. This board decides on support measures provided by the association and it is possible that the politician tries to use her/his influence to obtain support without further restructuring. If this would be the case, we would expect that politicians are less likely to use taxpayers’ money to resolve distressed banks. In a way, this variable tests whether the decision process at the association is rather transparent and follows pre-determined rules, or whether it is prone to favoritism. The dummy is insignificant, which illustrates once again the rather transparent decision process of the savings bank associations. If the association was prone to favoritism we would have expected a significantly negative coefficient for this dummy.

Next, we test for a link between the bailout decision and funding that the respective municipality obtains from the distressed bank. Politicians might have incentives to prefer control over a savings bank if this bank provides a large fraction of loans to the politicians’ municipalities. We include the amount of loans that the municipality is borrowing from the distressed bank divided by local GDP. We detect no significant relationship between this measure and the probability of the owner to resolve a bank in distress (columns 7 and 8).

Finally, the horse race in columns 9 and 10 shows that the political variables exert a strong and persistent influence on politicians’ decisions to inject money into distressed banks.

5. Consequences of political bailouts

Having established that the decision by politicians to inject funds into distressed banks depends on political as well as ideological factors, we now examine whether there are differences in the long-run performance of distressed banks that were either resolved by politicians or by the savings bank association. Furthermore, since politicians may care about the development of their municipality as a whole rather than the performance of their savings
banks, we also compare the macroeconomic development of municipalities whose savings banks were bailed out by politicians to the development of municipalities whose banks were supported by the association.

5.1. Bank performance following bailouts

5.1.1. Descriptives

We start with descriptive statistics for changes in key variables for banks that experienced a distress event. As documented in Section 3.3, bailouts by politicians are associated with less restructuring activities, which could affect banks’ long-run performance. On the one hand, performance could be negatively affected if the politician tries to prevent necessary restructuring measures that might negatively affect his probability of re-election. On the other hand, less restructuring might be optimal if politicians have better information about the situation of their bank. Comparing the long-run performance of banks that received support from either politicians or the association helps us to further distinguish between these two explanations.

Descriptive statistics are shown in Table 6. For each bank, we calculate the four-year change as compared with the bailout year for several key variables, the average between the four-year change and the five-year change, and so on (up to seven years). We then average these changes across banks that received support from either the association or the owner and compare the values for these two groups of banks. The comparison yields a clear picture: Irrespective of the chosen horizon, banks that obtained support from the association improved their performance considerably more in the long run as compared to banks that received support from the owner. For example, the capital ratio rises significantly more for banks whose distress case was resolved by the association. Interestingly, only banks that received support from the association are able to considerably reduce their non-performing loans ratio. Similarly, there is a higher reduction in the ratio of loan loss provisions to customer loans for banks that obtained support from the association. Finally, the return on

\(^{35}\) As in Section 3.3, we cannot include banks that were merged by the association since we do not have data on their future performance.
assets for this group of banks increased by about 0.2 percent more on average as compared to banks that obtained support from the owner.

5.1.2. Addressing selection

There are two potential sources of selection bias that might explain why banks that receive support from the association perform better in the long run as compared to banks that receive support from the owner. First, following the distress event, we do not have accounting information for banks that experienced a distressed merger. The association is likely to organize distressed mergers for the ‘worst’ distress cases. Hence, comparing the remaining association bailouts to the average owner bailout might suffer from a bias. Second, there might be unobserved variables that jointly affect the politician’s bailout decision and the future performance of the bank.

To circumvent the first issue, we restrict the sample to those savings banks that do not have a potential merger partner. In particular, these are all savings banks that do not have another savings bank in close geographic proximity that has at least 1.5 times the size of the bank in distress (in terms of total assets) as well as a capital ratio and an ROA higher than the median in our sample.36 In this way, we obtain a subsample of 56 distress cases for which we are able to obtain five-year changes in the key variables from the previous section.37 By only focusing on this subsample, we ensure that the comparison between association and owner bailouts is a fair comparison.

To address the second issue, we use the fact that political and ideological variables are important determinants for politicians’ bailout decisions. Apart from their influence on the probability of a bailout by the politician, the dummies for the electoral cycle, for competitive counties and for conservative bank chairmen should not have an influence on a bank’s future performance. Therefore, we can use these variables as instruments.

36 We define a savings bank to be in ‘close geographic proximity’ of a bank in distress if it is located in a county neighboring the one of the distressed bank. Further, we altered the criteria for a potential merger partner and found that our results do not depend on the exact definition (in particular, we tried different size cutoffs (same size, two times the size) and omitted the capital ratio and ROA criteria in alternative specifications).

37 We cannot include distress cases from 2005 or later years as we need at least five years of accounting information for the bank following the distress event.
We start by illustrating our identification strategy graphically in Figure 4. In Panel A and B we display the absolute and the relative frequency distribution of capital injections from the owner across the electoral cycle within the subsample of banks that do not have a potential merger partner. The pattern in the subsample is similar to the one in the full sample (see Figures 3 and A.1): The probability for a capital injection from the owner is considerably higher after the election as compared to the period before the election. More specifically, there are only 6 cases of capital injections from the owner in the two years before the election, while there are 19 cases in the two years after the election.

In Panels C to F, we display average values for five-year changes in the bank performance measures from above (i.e., capital ratio, non-performing loans ratio, ratio of loan loss provisions to customer loans, and ROA), grouped by the electoral cycle.\footnote{Specifically, we average the five-year change in the respective variable across banks in the restricted sample for which the distress event occurred at the same time in the electoral cycle.} In general there should be no relationship between banks’ future performance and the timing of the distress event within the electoral cycle. We know, however, that the probability for capital injections from the owner is considerably higher after the election as compared to the time before the election. Therefore, differences in future bank performance across the electoral cycle can be attributed to the actions of politicians. Performance measures in Panels C to F display a clear pattern across the electoral cycle. In particular, improvements in the capital ratio and reductions in the non-performing loans ratio as well as the ratio of loan loss provisions to customer loans are considerably smaller for distress events that occurred in the 12 months following an election, when bailouts from the owner are relatively more likely. Similarly, improvements in profitability are smaller for banks that were bailed out in the 12 months following an election. It is important to note that these documented differences in future performance do not depend on the time horizon. We have tried alternative horizons (i.e., four-year changes and six-year changes) and find similar patterns.

Finally, we investigate how future bank performance depends on the type of the bailout in a regression framework. Again, we start with the five-year change in the capital ratio as a dependent variable. Column 1 of Table 7 shows estimates from a simple OLS regression, which confirm that banks receiving capital injections from the owner exhibit lower increases.
in the capital ratio. As described above, we proceed by using the dummies for the electoral cycle, for competitive counties and for conservative bank chairmen as instruments in a two-stage least squares regression. The first stage regression is similar to the regressions in Table 4, while restricting the sample to the distress cases without a potential merger partner. Results for the second stage regressions are presented in columns 2-4 of Table 7. Five years after the bailout, the capital ratio increased significantly more for banks that were resolved by the association. Remarkably, the magnitude of the coefficient is considerably larger in the IV regression as compared to the OLS regression: Capital ratios increase by about 1 percent more if the distress case is resolved by the association as compared to the owner. The results are robust to the inclusion of association and time dummies. Again, we observe similar patterns for the other performance measures: Banks receiving capital injections from the owner experienced smaller improvements in the non-performing loans ratio, the ratio of loan loss provisions to customer loans and the profitability measured by ROA. As the number of observations is very small in these regressions, the findings are particularly impressive. As before, they do not depend on the exact definition of the time horizon (e.g., see Table A.3, where we use four-year changes in the variables instead of five-year changes).

5.2. Macroeconomic performance following distress events

In the previous section we showed that savings banks that experience a bailout from the association perform considerably better in the long-run as compared to savings banks that experience a bailout from the owner. By saving the bank from severe restructuring measures that would be imposed by the association, politicians seem to hurt the long run performance of the bank. However, it could be that politicians are not primarily concerned about the health of the bank itself, but rather care about the general economic development within their region. In order to assess this concern we examine the macroeconomic development of the county in which the respective savings bank is located.

In particular, we replicate the estimations from Section 5.1.2, using six county-level indicators (i.e., the share of aggregate financing provided by state banks, the ratio of aggregate
loans to GDP, the ratio of aggregate loans to private companies to GDP, the ratio of capital expenditures by firms in the manufacturing sector to GDP, real GDP growth, and the share of employees in the population) as dependent variables. Since we can also track the macroeconomic development of counties whose savings banks got involved in a distressed merger, we only have to worry about omitted variables that affect the owners’ bailout decision and the macroeconomic development at the same time (i.e., the second concern in the previous section). To address this concern we use—as before—our political variables as instruments. The second stage results for five-year changes in the macroeconomic variables are summarized in Table 8. The first four columns indicate that the type of the support measure affects the county-level structure of financing: The share of loans in the county extended by state banks relatively increases in counties where the savings bank was bailed out by the owner. Moreover, the OLS regression in column 5 indicates that counties with bailouts from the owner see a relative increase in financial depth (column 5). However, the difference between the two types of events vanishes in the two-stage least squares regressions (columns 6 to 8). Next, we restrict ourselves to loans to private, non-financial companies and exclude loans to the public sector from the loans to GDP ratio. Columns 9-12 suggest no difference between the different types of support measures: All coefficients are close to zero, and also the OLS coefficient is now insignificant. Overall, it does not seem as if the type of support measures affects financing conditions for the private sector.

In the remainder of the table, we evaluate the ratio of capital expenditures by firms in the manufacturing sector to GDP, real GDP growth, and the share of employees in the population. There are no significant differences between counties where banks received support from the owner and counties where the distress case was resolved by the association. These findings suggest that politicians’ decision to use taxpayers’ money to bail out a savings bank is not driven by concerns about the general economic development within their region.
6. Conclusion

In this paper we document that public bailout policies in Germany are driven by political interests and ideology. The probability of politicians injecting taxpayers’ money into a distressed bank is about 30% lower in the year before an election. High competition in the electoral process reduces the probability of a public bailout by 15%. We also show that ideology matters for bailout decisions. Capital injections are 17% less likely if the politician is a member of the conservative party. Furthermore, the long-run performance of banks that were bailed out by politicians is considerably lower as compared with banks that were supported by the association. To rule out the possibility that politicians support their savings bank in order to promote the general economic development within their municipality, we compare different measure of macroeconomic performance between banks obtaining support from the association and politicians. We cannot detect any positive long-run effects in municipalities whose savings banks obtained support from politicians.

These findings are surprising since politicians tend to be members of the banks’ supervisory boards and—therefore—have local knowledge about the distressed banks. If politicians would take advantage of their local knowledge, we should observe no statistical relationship between political/ideological factors and public capital injections. Our paper contributes to the debate about the proximity of banks and politicians/regulators that decide on recapitalization in case of distress. While local politicians have the advantage of local knowledge, decision makers with a larger distance to the bank have to rely on broader perspective. Nevertheless, we show that local politicians’ decisions are influenced by political factors and ideology. Thus, our papers illustrates the advantages of larger distance and broader perspective in designing an effective regulatory banking supervision. This is particularly important given the current discussion on a unified European banking supervision. Our results suggest that such a regulatory design could have considerable advantages.
References


Figure 1 illustrates the institutional setup for our analysis. The main institutions are the savings bank associations that operate the savings bank guarantee funds, the local counties or cities that own and back the individual banks, and of course the banks themselves. The figure shows that there are several personal and institutional connections within this system.
Figure 2: Support Measures and the Electoral Cycle.
Figure 2 illustrates how the number of banks that receive support measures varies over the electoral cycle, where the vertical black line indicates the election date. The top panel shows the number of capital injections from the owner, the second panel shows the number of support measures by the association, i.e. the number of capital injections from the association plus the number of distressed mergers, and the third panel shows the sum of the first two panels across the electoral cycle.
Figure 3: Capital Injections from the Owner and Electoral Cycle.

Figure 3 illustrates how the number of banks that receive capital injections from the owner varies over the electoral cycle, where the vertical black line indicates the election date.
Figure 4: Long Run Performance and Electoral Cycle

Figure 4 illustrates how the long run performance of banks in distress depends on the timing of the distress event over the electoral cycle, where the vertical black line indicates the election date. We restrict the sample to banks without a potential partner for a distressed merger to account for selection bias. Panel A shows the number of capital injections from the owner across the electoral cycle in the restricted sample, whereas Panel B shows the relative frequency. Further, we calculate the five-year change in the capital ratio (Panel C), the non-performing loans ratio (Panel D), the ratio of loan loss provisions to customer loans (Panel E), and the ROA (Panel F), and then show the average of this change across banks that experienced a distress event at the same time during the electoral cycle.
Table 1: Descriptive Statistics

<table>
<thead>
<tr>
<th>Panel A: Events</th>
<th>Obs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Support from owner</td>
<td>55</td>
</tr>
<tr>
<td>Support from association</td>
<td>93</td>
</tr>
<tr>
<td>... capital support</td>
<td>49</td>
</tr>
<tr>
<td>... distressed merger</td>
<td>44</td>
</tr>
<tr>
<td>Total</td>
<td>148</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Panel B: Bank variables</th>
<th>All banks</th>
<th>Support from owner</th>
<th>Support from association</th>
</tr>
</thead>
<tbody>
<tr>
<td>Obs.</td>
<td>Mean</td>
<td>S.D.</td>
<td>Obs.</td>
</tr>
<tr>
<td>Total assets (€ mn)</td>
<td>8,246</td>
<td>1,780</td>
<td>2,530</td>
</tr>
<tr>
<td>Log(Total assets)</td>
<td>8,246</td>
<td>20.81</td>
<td>0.95</td>
</tr>
<tr>
<td>Total assets / GDP (in %)</td>
<td>8,228</td>
<td>37.24</td>
<td>31.90</td>
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<td>Market share (in %)</td>
<td>8,219</td>
<td>22.50</td>
<td>16.39</td>
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<tr>
<td>Capital ratio (in %)</td>
<td>8,246</td>
<td>4.55</td>
<td>1.04</td>
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<tr>
<td>ROA (in %)</td>
<td>8,239</td>
<td>0.75</td>
<td>0.50</td>
</tr>
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<td>NPL ratio (in %)</td>
<td>8,195</td>
<td>3.79</td>
<td>2.61</td>
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<td>Deposit ratio (in %)</td>
<td>8,245</td>
<td>67.47</td>
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<tr>
<td>Loans to owner / GDP (in %)</td>
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<td>1.41</td>
</tr>
<tr>
<td>Conditional on distress</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bank Chairman in Ass. Board</td>
<td>148</td>
<td>0.20</td>
<td>0.40</td>
</tr>
<tr>
<td>Panel C: Macro &amp; Other variables</td>
<td>All banks</td>
<td>Support from owner</td>
<td>Support from association</td>
</tr>
<tr>
<td>---------------------------------</td>
<td>-----------</td>
<td>--------------------</td>
<td>-------------------------</td>
</tr>
<tr>
<td></td>
<td>Obs.</td>
<td>Mean</td>
<td>S.D.</td>
</tr>
<tr>
<td>GDPPC growth (in %)</td>
<td>8,246</td>
<td>1.288</td>
<td>3.816</td>
</tr>
<tr>
<td>GDPPC (in €)</td>
<td>8,228</td>
<td>23,771</td>
<td>8,528</td>
</tr>
<tr>
<td>Log(GDPPC)</td>
<td>8,228</td>
<td>10.024</td>
<td>0.313</td>
</tr>
<tr>
<td>Government debt / GDP (in %)</td>
<td>8,246</td>
<td>4.623</td>
<td>1.983</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Panel D: Political variables</th>
<th>Obs.</th>
<th>Support from owner</th>
<th>Support from association</th>
</tr>
</thead>
<tbody>
<tr>
<td>All</td>
<td>148</td>
<td>0.372</td>
<td>0.628</td>
</tr>
<tr>
<td>12-24 months before election</td>
<td>31</td>
<td>0.355</td>
<td>0.645</td>
</tr>
<tr>
<td>0-12 months before election</td>
<td>26</td>
<td>0.154</td>
<td>0.846</td>
</tr>
<tr>
<td>0-12 months after election</td>
<td>30</td>
<td>0.500</td>
<td>0.500</td>
</tr>
<tr>
<td>12-24 months after election</td>
<td>34</td>
<td>0.441</td>
<td>0.559</td>
</tr>
<tr>
<td>24-36 months after election</td>
<td>27</td>
<td>0.370</td>
<td>0.630</td>
</tr>
<tr>
<td>No competitive county</td>
<td>73</td>
<td>0.438</td>
<td>0.562</td>
</tr>
<tr>
<td>Competitive county</td>
<td>75</td>
<td>0.307</td>
<td>0.693</td>
</tr>
<tr>
<td>No conservative chairman</td>
<td>88</td>
<td>0.455</td>
<td>0.545</td>
</tr>
<tr>
<td>Conservative chairman</td>
<td>60</td>
<td>0.250</td>
<td>0.750</td>
</tr>
</tbody>
</table>

The table shows descriptive statistics for the banks in our sample. In Panel A we report the number of distress events, where we distinguish between support measures from the owner and support measures from the association. Panel B shows descriptive statistics for key bank variables. The unit of observation is a bank-year. The first three columns show statistics for all banks in our sample, whereas the other columns include only bank-year observation of banks that experienced support measures from the owner or the association during our sample period. Panel C provides descriptive statistics for macro control variables and a dummy variable that we use in the empirical analysis. Finally, Panel D shows the distribution of capital injections from the owner and support measures by the association, and how this distribution depends on political variables. For example, of the 148 distress events in our sample, 37.2% were capital injections from the owner, while 62.8% were support measures from the association. Depending on the values of the political variables this distribution differs.
# Table 2: Change in Key Variables

<table>
<thead>
<tr>
<th>Percentage Change in...</th>
<th>Customer Loans</th>
<th>Employees</th>
<th>Personnel Expenditures</th>
<th>Number of Branches</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(1) Association</td>
<td>(2) Owner</td>
<td>(3) Difference</td>
<td>(4) Association</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(5) Owner</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(6) Difference</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(7) Association</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(8) Owner</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(9) Difference</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(10) Association</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(11) Owner</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(12) Difference</td>
</tr>
<tr>
<td>Pre Bailout Mean</td>
<td>0.063</td>
<td>0.058</td>
<td>0.004</td>
<td>0.038</td>
</tr>
<tr>
<td>Pre Bailout Median</td>
<td>0.057</td>
<td>0.059</td>
<td>-0.006</td>
<td>0.037</td>
</tr>
<tr>
<td>Pre Bailout S.D.</td>
<td>0.078</td>
<td>0.069</td>
<td>0.055</td>
<td>0.105</td>
</tr>
<tr>
<td>Pre Bailout Obs.</td>
<td>169</td>
<td>266</td>
<td>169</td>
<td>169</td>
</tr>
<tr>
<td>Bailout Year Mean</td>
<td>0.000***</td>
<td>0.028***</td>
<td>-0.028***</td>
<td>-0.013</td>
</tr>
<tr>
<td>Bailout Year Median</td>
<td>-0.010</td>
<td>0.020</td>
<td>-0.014</td>
<td>0.018</td>
</tr>
<tr>
<td>Bailout Year S.D.</td>
<td>0.062</td>
<td>0.057</td>
<td>0.071</td>
<td>0.084</td>
</tr>
<tr>
<td>Bailout Year Obs.</td>
<td>41</td>
<td>54</td>
<td>41</td>
<td>39</td>
</tr>
<tr>
<td>Bailout Year + 1 Mean</td>
<td>-0.016***</td>
<td>0.016***</td>
<td>-0.032***</td>
<td>-0.004</td>
</tr>
<tr>
<td>Bailout Year + 1 Median</td>
<td>-0.030</td>
<td>0.016</td>
<td>-0.017</td>
<td>0.010</td>
</tr>
<tr>
<td>Bailout Year + 1 S.D.</td>
<td>0.066</td>
<td>0.041</td>
<td>0.050</td>
<td>0.087</td>
</tr>
<tr>
<td>Bailout Year + 1 Obs.</td>
<td>41</td>
<td>45</td>
<td>40</td>
<td>40</td>
</tr>
<tr>
<td>Bailout Year + 2 Mean</td>
<td>-0.018***</td>
<td>0.024***</td>
<td>-0.042***</td>
<td>-0.008</td>
</tr>
<tr>
<td>Bailout Year + 2 Median</td>
<td>-0.016</td>
<td>0.028</td>
<td>-0.027</td>
<td>-0.003</td>
</tr>
<tr>
<td>Bailout Year + 2 S.D.</td>
<td>0.052</td>
<td>0.039</td>
<td>0.033</td>
<td>0.085</td>
</tr>
<tr>
<td>Bailout Year + 2 Obs.</td>
<td>33</td>
<td>38</td>
<td>33</td>
<td>33</td>
</tr>
<tr>
<td>Bailout Year + 3 Mean</td>
<td>-0.014***</td>
<td>0.025***</td>
<td>-0.039***</td>
<td>-0.008</td>
</tr>
<tr>
<td>Bailout Year + 3 Median</td>
<td>-0.007</td>
<td>0.022</td>
<td>-0.029</td>
<td>0.008</td>
</tr>
<tr>
<td>Bailout Year + 3 S.D.</td>
<td>0.044</td>
<td>0.050</td>
<td>0.042</td>
<td>0.056</td>
</tr>
<tr>
<td>Bailout Year + 3 Obs.</td>
<td>31</td>
<td>36</td>
<td>30</td>
<td>31</td>
</tr>
</tbody>
</table>

The table shows changes in key variables of savings banks around the years of capital injections. The first row shows pre-event statistics of banks that experienced a distress event during our sample period. All bank-year observations prior to the event denoted on top of the column are included. The other rows show the statistics for the event year as well as the years following the event. * indicates statistical significance at the 10 %-level, ** at the 5 %-level, and *** at the 1 %-level, in a two-sided test of the mean of bank-year observations prior to the event and bank-year observations in the respective year around the event (columns 1-2, 4-5, 7-8, and 10-11). In columns 3, 6, 9, and 12 * indicates statistical significance at the 10 %-level, ** at the 5 %-level, and *** at the 1 %-level, in a two-sided test of the mean of bank-year observations of banks that received capital injections from the association and bank-year observations of banks that received capital injections from the owner in the respective year around the event.
Table 3: Hazard Model

<table>
<thead>
<tr>
<th></th>
<th>All (1)</th>
<th>All (2)</th>
<th>All (3)</th>
</tr>
</thead>
<tbody>
<tr>
<td>D(0-12 months after)</td>
<td>0.319</td>
<td>0.445</td>
<td>-0.069</td>
</tr>
<tr>
<td></td>
<td>(0.432)</td>
<td>(0.478)</td>
<td>(0.585)</td>
</tr>
<tr>
<td>D(12-24 months after)</td>
<td>0.181</td>
<td>0.183</td>
<td>-0.330</td>
</tr>
<tr>
<td></td>
<td>(0.329)</td>
<td>(0.387)</td>
<td>(0.574)</td>
</tr>
<tr>
<td>D(24-36 months after)</td>
<td>0.072</td>
<td>-0.135</td>
<td>-0.311</td>
</tr>
<tr>
<td></td>
<td>(0.333)</td>
<td>(0.362)</td>
<td>(0.442)</td>
</tr>
<tr>
<td>D(12-24 months before)</td>
<td>0.484</td>
<td>0.582</td>
<td>0.370</td>
</tr>
<tr>
<td></td>
<td>(0.382)</td>
<td>(0.462)</td>
<td>(0.548)</td>
</tr>
<tr>
<td>Total Assets / GDP (t-1)</td>
<td>0.043</td>
<td>0.069</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(0.177)</td>
<td>(0.178)</td>
<td></td>
</tr>
<tr>
<td>Capital Ratio (t-1)</td>
<td>-0.107</td>
<td>-0.317*</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(0.117)</td>
<td>(0.168)</td>
<td></td>
</tr>
<tr>
<td>ROA (t-1)</td>
<td>-0.416***</td>
<td>-0.470***</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(0.125)</td>
<td>(0.135)</td>
<td></td>
</tr>
<tr>
<td>NPL Ratio (t-1)</td>
<td>-0.001</td>
<td>-0.001***</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(0.001)</td>
<td>(0.000)</td>
<td></td>
</tr>
<tr>
<td>Market Share (t-1)</td>
<td>-0.013**</td>
<td>-0.019**</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(0.006)</td>
<td>(0.008)</td>
<td></td>
</tr>
<tr>
<td>Deposit Ratio (t-1)</td>
<td>-0.018**</td>
<td>-0.035**</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(0.008)</td>
<td>(0.015)</td>
<td></td>
</tr>
<tr>
<td>GDPPC Growth (t-1)</td>
<td>0.020</td>
<td>-0.002</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(0.030)</td>
<td>(0.036)</td>
<td></td>
</tr>
<tr>
<td>Log(GDPPC) (t-1)</td>
<td>-0.416</td>
<td>-0.646***</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(0.345)</td>
<td>(0.121)</td>
<td></td>
</tr>
<tr>
<td>Time Dummies</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>Association Dummies</td>
<td>NO</td>
<td>NO</td>
<td>YES</td>
</tr>
<tr>
<td>Observations</td>
<td>8,232</td>
<td>8,135</td>
<td>8,135</td>
</tr>
</tbody>
</table>

The table shows results for the following exponential hazard model:

\[ h_i(t) = \exp(\beta_0 \cdot x_{i,t-1} + \beta_1 \cdot \text{Electoral Cycle}_it + \beta_2 \cdot \text{time}_t + \beta_3 \cdot \text{association}_i), \]

where \( x_{i,t-1} \) denotes the a vector of covariates for bank \( i \) at time or duration \( t \); \( \beta \) is a vector of unknown parameters to be estimated. The vector \( \text{Electoral Cycle}_it \) indicates our dummies for the electoral cycle. Regressions include both savings banks that experienced a distress event during our sample period and savings banks that did not. Time dummies indicate the four election cycles in our sample (1994-1998, 1999-2003, 2004-2008, 2009-end of sample), while association dummies indicate the regional savings bank association of the bank. Standard errors are clustered by year. * indicates statistical significance at the 10 %-level, ** at the 5 %-level, and *** at the 1 %-level.
Table 4: Event Type

<table>
<thead>
<tr>
<th>Dependent Variable: Event Type</th>
<th>(1)</th>
<th>(2)</th>
<th>(3)</th>
<th>(4)</th>
<th>(5)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Assets / GDP (t-1)</td>
<td>-0.138**</td>
<td>-0.177***</td>
<td>-0.116*</td>
<td>-0.160**</td>
<td>-0.157**</td>
</tr>
<tr>
<td></td>
<td>(0.056)</td>
<td>(0.048)</td>
<td>(0.060)</td>
<td>(0.055)</td>
<td>(0.059)</td>
</tr>
<tr>
<td>Capital Ratio (t-1)</td>
<td>-0.034</td>
<td>-0.042</td>
<td>-0.019</td>
<td>-0.034</td>
<td>-0.065</td>
</tr>
<tr>
<td></td>
<td>(0.037)</td>
<td>(0.045)</td>
<td>(0.037)</td>
<td>(0.044)</td>
<td>(0.052)</td>
</tr>
<tr>
<td>ROA (t-1)</td>
<td>0.067</td>
<td>0.071</td>
<td>0.039</td>
<td>0.046</td>
<td>-0.017</td>
</tr>
<tr>
<td></td>
<td>(0.071)</td>
<td>(0.058)</td>
<td>(0.079)</td>
<td>(0.063)</td>
<td>(0.055)</td>
</tr>
<tr>
<td>NPL Ratio (t-1)</td>
<td>-0.022*</td>
<td>-0.021</td>
<td>-0.023*</td>
<td>-0.022*</td>
<td>-0.019*</td>
</tr>
<tr>
<td></td>
<td>(0.012)</td>
<td>(0.012)</td>
<td>(0.011)</td>
<td>(0.011)</td>
<td>(0.010)</td>
</tr>
<tr>
<td>Market Share (t-1)</td>
<td>0.009***</td>
<td>0.010***</td>
<td>0.009**</td>
<td>0.009***</td>
<td>0.008**</td>
</tr>
<tr>
<td></td>
<td>(0.003)</td>
<td>(0.003)</td>
<td>(0.003)</td>
<td>(0.003)</td>
<td>(0.004)</td>
</tr>
<tr>
<td>Deposit Ratio (t-1)</td>
<td>-0.007</td>
<td>-0.007</td>
<td>-0.005</td>
<td>-0.005</td>
<td>-0.004</td>
</tr>
<tr>
<td></td>
<td>(0.004)</td>
<td>(0.004)</td>
<td>(0.004)</td>
<td>(0.004)</td>
<td>(0.005)</td>
</tr>
<tr>
<td>GDPPC Growth (t-1)</td>
<td>-0.020*</td>
<td>-0.025**</td>
<td>-0.019*</td>
<td>-0.023**</td>
<td>-0.021**</td>
</tr>
<tr>
<td></td>
<td>(0.010)</td>
<td>(0.009)</td>
<td>(0.010)</td>
<td>(0.010)</td>
<td>(0.009)</td>
</tr>
<tr>
<td>Log(GDPPC) (t-1)</td>
<td>0.030</td>
<td>0.040</td>
<td>-0.049</td>
<td>-0.051</td>
<td>0.016</td>
</tr>
<tr>
<td></td>
<td>(0.095)</td>
<td>(0.113)</td>
<td>(0.092)</td>
<td>(0.114)</td>
<td>(0.110)</td>
</tr>
<tr>
<td>D(0-12 months after)</td>
<td>0.286***</td>
<td>0.301***</td>
<td>0.265**</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(0.082)</td>
<td>(0.080)</td>
<td>(0.102)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>D(12-24 months after)</td>
<td>0.390***</td>
<td>0.384***</td>
<td>0.413***</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(0.092)</td>
<td>(0.088)</td>
<td>(0.098)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>D(24-36 months after)</td>
<td>0.230**</td>
<td>0.222**</td>
<td>0.233**</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(0.090)</td>
<td>(0.100)</td>
<td>(0.088)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>D(12-24 months before)</td>
<td>0.296**</td>
<td>0.310**</td>
<td>0.275*</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(0.137)</td>
<td>(0.129)</td>
<td>(0.139)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Competitive County</td>
<td>-0.150**</td>
<td>-0.118</td>
<td>-0.166**</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(0.068)</td>
<td>(0.070)</td>
<td>(0.077)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cons. Bank Chairman</td>
<td>-0.181**</td>
<td>-0.200**</td>
<td>-0.141</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(0.080)</td>
<td>(0.086)</td>
<td>(0.081)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Time Dummies</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>Association Dummies</td>
<td>NO</td>
<td>NO</td>
<td>NO</td>
<td>YES</td>
<td></td>
</tr>
<tr>
<td>Observations</td>
<td>148</td>
<td>148</td>
<td>148</td>
<td>148</td>
<td>148</td>
</tr>
<tr>
<td>R-squared</td>
<td>0.240</td>
<td>0.305</td>
<td>0.277</td>
<td>0.341</td>
<td>0.490</td>
</tr>
</tbody>
</table>

The table shows results for an OLS estimation of the following equation:

\[ Event\ Type_{ijkt} = association_j + time_t + POL^{kt}_i \beta + B_{t-1}^i \gamma + C_{kt-1}^i \delta + \epsilon_{ijkt}, \]

where \( i \) denotes the individual bank, \( j \) the association, \( k \) the county or city where the bank is located, and \( t \) the year of the event. The dummy \( Event\ Type_{ijkt} \) equals one if the bank received capital injections from the owner and zero if the bank received support measures from the association. The vector of political variables is denoted by \( POL^{kt}_i \), \( B_{t-1}^i \) includes bank-level control variables, and \( C_{kt-1}^i \) is the vector of regional control variables. All columns include time dummies for the four election cycles in our sample (1994-1998, 1999-2003, 2004-2008, 2009-end of sample), and column 5 additionally includes a set of dummy variables that indicate the association of the bank. * indicates statistical significance at the 10 % -level, ** at the 5 % -level, and *** at the 1 % -level.
The table shows how fiscal and other variables affect the likelihood of a bailout from the owner. As before the dependent variable is a dummy that equals one if the bank received capital injections from the owner and zero if the bank received support measures from the association. Bank control variables are the same as in Table 4. Additionally, we include the county-level ratio of government indebtedness to GDP (Government Debt / GDP), a dummy variable Bank Chairman in Ass. Board that takes the value of one if the chairman of the bank in distress is a member of the board of the local savings bank association, and the variable Loans to Owner / GDP that gives the amount of credit extended by the savings bank to the local government divided by local GDP. As before, all variables are lagged by one period. Columns 1, 3, 5, 7, and 9 include time dummies for the four election cycles in our sample (1994-1998, 1999-2003, 2004-2008, 2009-end of sample), and columns 2, 4, 6, 8, and 10 include additional dummies that indicate the association of the bank. * indicates statistical significance at the 10 % -level, ** at the 5 % -level, and *** at the 1 % -level.
Table 6: Long-Run Performance—Descriptives

<table>
<thead>
<tr>
<th>Association Owner Difference</th>
<th>Association</th>
<th>Owner</th>
<th>Difference</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(1) (2) (3)</td>
<td>(4) (5) (6)</td>
<td>(2)-(5)</td>
</tr>
<tr>
<td>Obs.</td>
<td>Mean</td>
<td>S.D.</td>
<td>Obs.</td>
</tr>
</tbody>
</table>

Capital Ratio

| t=4 | 35 | 0.590 | 0.615 | 39 | 0.254 | 0.413 | 0.336*** |
| t=5 | 29 | 0.578 | 0.647 | 34 | 0.229 | 0.452 | 0.349** |
| t=6 | 24 | 0.499 | 0.647 | 27 | 0.277 | 0.500 | 0.222 |
| t=7 | 22 | 0.618 | 0.563 | 22 | 0.303 | 0.478 | 0.315* |

NPL Ratio

| t=4 | 34 | -3.238 | 4.209 | 38 | 0.106 | 3.077 | -3.344*** |
| t=5 | 29 | -4.011 | 4.136 | 34 | -0.001 | 3.569 | -4.010*** |
| t=6 | 24 | -4.907 | 4.285 | 27 | -0.795 | 3.826 | -4.111*** |
| t=7 | 22 | -5.118 | 4.515 | 22 | -1.140 | 3.577 | -3.977*** |

LLP to CL

| t=4 | 34 | -0.698 | 0.759 | 39 | -0.287 | 0.837 | -0.411** |
| t=5 | 29 | -0.759 | 0.767 | 34 | -0.343 | 0.824 | -0.415** |
| t=6 | 24 | -0.750 | 0.793 | 27 | -0.384 | 0.908 | -0.365 |
| t=7 | 22 | -0.813 | 0.823 | 22 | -0.493 | 0.860 | -0.320 |

ROA

| t=4 | 34 | 0.271 | 0.649 | 39 | 0.050 | 0.508 | 0.221 |
| t=5 | 29 | 0.290 | 0.594 | 34 | 0.062 | 0.464 | 0.228* |
| t=6 | 24 | 0.213 | 0.537 | 27 | 0.015 | 0.566 | 0.198 |
| t=7 | 22 | 0.309 | 0.526 | 22 | 0.069 | 0.482 | 0.240 |

The table shows changes in key variables for banks that experienced a distress event. With $t$ denoting the number of years since the bailout event, we calculate for each bank and for $t \in \{4, 5, 6, 7\}$

$$\frac{1}{t + 1 - 4} \sum_{i=4}^{t} var_i - var_0,$$

where $var_i$ denotes the value of the variable in the $i$th year after the bailout and $var_0$ denotes the value in the bailout year. We then average these changes across banks. Column 7 shows the difference in the mean between the two groups of banks, where *, **, and *** indicate statistical differences in the mean at the 10 %-level, 5 %-level, and 1 %-level, respectively.
Table 7: Long-Run Performance—Regressions

<table>
<thead>
<tr>
<th></th>
<th>Capital Ratio</th>
<th>NPL Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(1) OLS</td>
<td>(2) IV</td>
</tr>
<tr>
<td>Owner</td>
<td>-0.389***</td>
<td>-0.833**</td>
</tr>
<tr>
<td></td>
<td>(0.151)</td>
<td>(0.335)</td>
</tr>
<tr>
<td>Constant</td>
<td>0.578***</td>
<td>0.792***</td>
</tr>
<tr>
<td></td>
<td>(0.105)</td>
<td>(0.180)</td>
</tr>
<tr>
<td>Association Dummies</td>
<td>NO</td>
<td>NO</td>
</tr>
<tr>
<td>Time Dummies</td>
<td>NO</td>
<td>NO</td>
</tr>
<tr>
<td>Observations</td>
<td>56</td>
<td>56</td>
</tr>
<tr>
<td>R-squared</td>
<td>0.110</td>
<td>0.114</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>LLP to CL</th>
<th>ROA</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(9) OLS</td>
<td>(10) IV</td>
</tr>
<tr>
<td>Owner</td>
<td>0.629***</td>
<td>0.910**</td>
</tr>
<tr>
<td></td>
<td>(0.184)</td>
<td>(0.388)</td>
</tr>
<tr>
<td>Constant</td>
<td>-0.759***</td>
<td>-0.894***</td>
</tr>
<tr>
<td></td>
<td>(0.128)</td>
<td>(0.208)</td>
</tr>
<tr>
<td>Association Dummies</td>
<td>NO</td>
<td>NO</td>
</tr>
<tr>
<td>Time Dummies</td>
<td>NO</td>
<td>NO</td>
</tr>
<tr>
<td>Observations</td>
<td>56</td>
<td>56</td>
</tr>
<tr>
<td>R-squared</td>
<td>0.178</td>
<td>0.142</td>
</tr>
</tbody>
</table>

The table examines how banks’ long-run performance following a distress event depends on the type of the distress event. We restrict the sample to banks without a potential partner for a distressed merger to account for selection bias. The dependent variable is the five-year change in the capital ratio as compared to the bailout year in columns 1-4, the five-year change in the non-performing loans ratio in column 5-8, the five-year change in the ratio of loan loss provisions to customer loans in columns 9-12, and the five-year change in ROA in columns 13-16. Columns 1, 5, 9, and 13 report results for simple OLS regressions, where Owner is a dummy equal to one if the bank received capital injections from the owner and equal to zero if it received support from the association. The remaining columns show results for two-stage least squares regressions. In the first stage, we regress the dummy variable Owner on the political variables from above (dummies for the electoral cycle, competitive counties, and conservative bank chairmen), and the additional dummy variables specified at the bottom of the table. In the second change, predicted probabilities from the first stage are used to predict the five-year change in the respective variable. Again, we include the additional dummy variables denoted at the bottom of the table. * indicates statistical significance at the 10 %-level, ** at the 5 %-level, and *** at the 1 %-level.
Table 8: Macroeconomic Developments—Regressions

<table>
<thead>
<tr>
<th></th>
<th>State Bank Loan Share</th>
<th>Loans to GDP</th>
<th>Private Capital Expenditures to GDP</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(1) OLS</td>
<td>(2) IV</td>
<td>(3) IV</td>
</tr>
<tr>
<td>Owner</td>
<td>0.0630***</td>
<td>0.0902**</td>
<td>0.2436***</td>
</tr>
<tr>
<td></td>
<td>(0.0208)</td>
<td>(0.0456)</td>
<td>(0.0754)</td>
</tr>
<tr>
<td>Constant</td>
<td>-0.0337**</td>
<td>-0.0444**</td>
<td>-0.0791</td>
</tr>
<tr>
<td></td>
<td>(0.0131)</td>
<td>(0.0207)</td>
<td>(0.0750)</td>
</tr>
<tr>
<td>Association Dummies</td>
<td>NO</td>
<td>NO</td>
<td>YES</td>
</tr>
<tr>
<td>Time Dummies</td>
<td>NO</td>
<td>NO</td>
<td>NO</td>
</tr>
<tr>
<td>Observations</td>
<td>104</td>
<td>104</td>
<td>104</td>
</tr>
<tr>
<td>R-squared</td>
<td>0.0824</td>
<td>0.0672</td>
<td>0.2345</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(9) OLS</td>
<td>(10) IV</td>
<td>(11) IV</td>
</tr>
<tr>
<td>Owner</td>
<td>0.0241</td>
<td>0.0310</td>
<td>0.0247</td>
</tr>
<tr>
<td></td>
<td>(0.0165)</td>
<td>(0.0404)</td>
<td>(0.0376)</td>
</tr>
<tr>
<td>Constant</td>
<td>-0.0068</td>
<td>-0.0093</td>
<td>0.0009</td>
</tr>
<tr>
<td></td>
<td>(0.0101)</td>
<td>(0.0170)</td>
<td>(0.0033)</td>
</tr>
<tr>
<td>Association Dummies</td>
<td>NO</td>
<td>NO</td>
<td>YES</td>
</tr>
<tr>
<td>Time Dummies</td>
<td>NO</td>
<td>NO</td>
<td>NO</td>
</tr>
<tr>
<td>Observations</td>
<td>83</td>
<td>83</td>
<td>83</td>
</tr>
<tr>
<td>R-squared</td>
<td>0.0256</td>
<td>0.0236</td>
<td>0.1975</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(17) OLS</td>
<td>(18) IV</td>
<td>(19) IV</td>
</tr>
<tr>
<td>Owner</td>
<td>0.0036</td>
<td>-0.0215</td>
<td>-0.0205</td>
</tr>
<tr>
<td></td>
<td>(0.0162)</td>
<td>(0.0383)</td>
<td>(0.0528)</td>
</tr>
<tr>
<td>Constant</td>
<td>0.0770***</td>
<td>0.0864***</td>
<td>0.0098***</td>
</tr>
<tr>
<td></td>
<td>(0.0100)</td>
<td>(0.0164)</td>
<td>(0.0028)</td>
</tr>
<tr>
<td>Association Dummies</td>
<td>NO</td>
<td>NO</td>
<td>YES</td>
</tr>
<tr>
<td>Time Dummies</td>
<td>NO</td>
<td>NO</td>
<td>NO</td>
</tr>
<tr>
<td>Observations</td>
<td>88</td>
<td>88</td>
<td>88</td>
</tr>
<tr>
<td>R-squared</td>
<td>0.0006</td>
<td>0.0037</td>
<td>0.1692</td>
</tr>
</tbody>
</table>

The table examines how macroeconomic developments on the county level following a distress event depend on the type of the distress event. The sample includes all observations for which we are able to obtain the dependent variable, which is the five-year change in share of loans in the county that is extended by state banks in columns 1-4, the five-year change in the ratio of aggregate loans to GDP as compared to the bailout year in column 5-8, the five-year change in the ratio of aggregate loans to the private corporate sector to GDP as compared to the bailout year in column 9-12, the five-year change in the ratio of capital expenditures in the manufacturing sector to GDP as compared to the bailout year in column 13-16, the five-year real GDP growth rate in columns 17-20, and the five-year change in the share of employees in the population in columns 21-24. Columns 1, 5, 9, 13, 17, and 21 report results for simple OLS regressions, where Owner is a dummy equal to one if the bank received capital injections from the owner and equal to zero if it received support from the association. The remaining columns show results for two-stage least squares regressions. In the first stage, we regress the dummy variable Owner on the political variables from above (dummies for the electoral cycle, competitive counties, and conservative bank chairmen), and the additional dummy variables specified at the bottom of the table. In the second change, predicted probabilities from the first stage are used to predict the five-year change in the respective variable. Again, we include the additional dummy variables denoted at the bottom of the table. * indicates statistical significance at the 10 %-level, ** at the 5 %-level, and *** at the 1 %-level.
Appendix
Description of Bundesbank data sources

The Bundesbank’s prudential data base (BAKIS): This database (for which the German Banking Act forms the legal basis) contains micro data on German banks which is available from the 1990s on and used for both supervisory monitoring of financial institutions and research purposes. These data contain sensitive and confidential supervisory information and, therefore, can only be used at the Bundesbank premises and the results may be published only after a thorough anonymization of the data. From the BAKIS data base we obtain bank balance sheet data to construct control variables for our regression analyses. More importantly, we also get access to the “Sonderdatenkatalog 1” which is a special dataset containing confidential information which banks are legally bound to report to Bundesbank and BaFin and, amongst others, allow us to identify capital support measures savings banks received from the association.

The monthly balance sheet statistics (BISTA): This data base gives a comprehensive overview on German financial institutions’ business activities. Hereby, banks are legally bound to report their balance sheet data on a monthly and highly disaggregated basis. For our project a major challenge was to access historical BISTA data which allows us to identify the size of the capital injection as well as the particular month this event occurred. Moreover, the BISTA database also provides us with information on each bank’s lending to municipalities (which is used to identify further motives behind bank bailouts).

The quarterly borrowers’ statistics: This database contains domestic loan portfolio exposures and write-off data on the bank-portfolio level (i.e., lending to the German real sector can be identified for 24 corporate and 3 retail portfolios per bank). Loan exposure data is available from the early 1990s on while data on write-offs can be accessed from 2002-2010. In our empirical study data from the borrowers’ statistics is used to double-check the information on the timing of bailout events, in particular by the banking association, for roughly half of the time-period of our dataset. For the period before 2002 we have to rely

on the evolution of the capital adequacy ratio in order to identify the timing of the distress event within a year.

**The Bundesbank’s distress data base:** This database contains information on distress events which occurred at German financial institutions from the early 1990s on. For our analyses we rely on information on so-called “distressed mergers”; that is, we need to distinguish distressed (or restructuring) mergers from pure “economy of scale mergers”. As the distress database is only available until 2006, we define a distressed merger in the years 2007-2010 as a passive merger where the bank that was taken over experienced a severe distress event (i.e., a moratorium, a capital support measure, or a very low capital ratio) in the three year before the merger.
Figure A.1 illustrates how the number of banks that receive capital injections from the owner varies over the electoral cycle, where the vertical black line indicates the election date.
Table A.1: Variable Definitions

Panel A: Events

**Support from owner**
Capital injections from the bank owner are identified by an increase in a bank’s subscribed capital that cannot be explained by takeovers or restructuring of equity positions (so called “stille Einlage”). Note that for historical reasons, the equity capital of savings banks usually consists solely of contingency funds (so called “Sicherheitsrücklage”). These funds were originally provided by the owner of the bank in the year of foundation and then cumulated over the years out of the bank’s retained earnings. However, if the savings bank—besides its equity in the contingency funds—also has subscribed capital unequal to zero, then this usually indicates an undisclosed participation of the bank owner.

**Support from association**
- **... capital support**
  Capital injections or guarantees from the association, obtained from “Sonderdatenkatalog 1” of the Bundesbank BAKIS database
- **... distressed merger**
  Information on distressed mergers is taken from the Bundesbank distress database. As this database is only available until 2006, we define a distressed merger in the years 2007-2010 as a passive merger where the bank that was taken over experienced a severe distress event in the three years before the merger (i.e., a moratorium, a capital support measure, or a very low capital ratio).

Panel B: Bank Variables

**Control Variables**
- **Total Bank Assets**
  Total assets (in Mio. EUR)
- **Log Bank Assets**
  Logarithm (ln) of total assets
- **Total Assets / GDP**
  Total assets to GDP ratio (county level, in %)
- **Capital Ratio**
  Equity capital to total assets ratio (in %)
- **ROA**
  Return (operative result) on total assets (in %)
- **NPL Ratio**
  Non-performing loans to customer loans ratio (in %)
- **Market Share (in %)**
  Share of bank branches in the respective county where very small branches (e.g., branches from the Deutsche Postbank) are excluded. Note that until 2004 banks are legally bound to report the exact location of each of their branches to the Deutsche Bundesbank; from 2005 on the share of branches can be proxied from banks’ voluntary reporting and from cross-sectional information.
- **Deposit Ratio**
  Savings deposits, term deposits, and time deposits to total assets ratio (in %)
- **Loans to Owner / GDP**
  Claims against municipal governments to GDP ratio (county level, in %)

**Conditional on Distress**
- **Bank Chairman in Ass. Board**
  Dummy = 1 if the chairman of the bank in distress is also a member of the board of the association.

**Restructuring Variables**
- **Growth Rate (Employees)**
  Year-on-year change of number of bank employees (growth rate)
- **Growth Rate (Number of Branches)**
  Year-on-year change of number of bank branches (growth rate, available until 2004)
- **Growth Rate (Customer Loans)**
  Year-on-year change of customer loans to total assets ratio (growth rate)
- **Growth Rate (Pers. Expenditures)**
  Year-on-year change of personnel expenditures (growth rate)
- **Loan Loss Provisions / Customer Loans**
  Loan loss provisions to customer loans (in %)
<table>
<thead>
<tr>
<th>Panel C: Macro &amp; Other Variables</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>GDPPC Growth</strong></td>
<td>Year-on-year change of real GDP per capita (county level, in %)</td>
</tr>
<tr>
<td><strong>Log(GDPPC)</strong></td>
<td>Logarithm (ln) of real GDP per capita (county level)</td>
</tr>
<tr>
<td><strong>Government Debt / GDP</strong></td>
<td>Municipal government debt to GDP (county level, in %)</td>
</tr>
<tr>
<td><strong>Restructuring Variables</strong></td>
<td></td>
</tr>
<tr>
<td><strong>State Bank Loan Share</strong></td>
<td>Share of loans in the German credit register that is granted by state banks in a given year</td>
</tr>
<tr>
<td><strong>Loans to GDP</strong></td>
<td>Loans in the German credit register aggregated at the county level and divided by county-level GDP</td>
</tr>
<tr>
<td><strong>Loans to Private Corporate Sector to GDP</strong></td>
<td>Loans in the German credit register to private companies aggregated at the county level and divided by county-level GDP</td>
</tr>
<tr>
<td><strong>Private Capital Expenditures to GDP</strong></td>
<td>Capital expenditures by companies in the manufacturing sector aggregated at the county level and divided by county-level GDP</td>
</tr>
<tr>
<td><strong>Real GDP Growth</strong></td>
<td>Year-on-year change in real GDP (county level, in %)</td>
</tr>
<tr>
<td><strong>Share of Employees in Population</strong></td>
<td>Ratio of employees to total inhabitants (county level)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Panel D: Political Variables</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>D(12-24 months before)</strong></td>
<td>Dummy = 1 if the last county/city elections took place 12-24 months before the distress event.</td>
</tr>
<tr>
<td><strong>D(0-12 months before)</strong></td>
<td>Dummy = 1 if the last county/city elections will take place 0 to 12 months before the distress event.</td>
</tr>
<tr>
<td><strong>D(0-12 months after)</strong></td>
<td>Dummy = 1 if the last county/city elections took place 0 to 12 months after the distress event.</td>
</tr>
<tr>
<td><strong>D(12-24 months after)</strong></td>
<td>Dummy = 1 if the last county/city elections took place 12-24 months after the distress event.</td>
</tr>
<tr>
<td><strong>D(24-36 months after)</strong></td>
<td>Dummy = 1 if the last county/city elections took place 24-36 months after the distress event.</td>
</tr>
<tr>
<td><strong>No Competitive County</strong></td>
<td>Dummy = 0 for a non-competitive county.</td>
</tr>
<tr>
<td><strong>Competitive County</strong></td>
<td>Dummy = 1 for competitive counties. Hereby, the vote share margin between the first and the second party within the county from the respective state election is calculated. Then the dummy is defined as equal to one if the vote share margin is smaller than the median and zero otherwise. This taken as a proxy for political competition within the county/city: The smaller the vote share margin between the first and the second party, the more intense the political competition and the more effective the disciplining role voters can exert on politicians.</td>
</tr>
<tr>
<td><strong>No Conservative Bank Chairman</strong></td>
<td>Dummy = 0 for a non-conservative chairman.</td>
</tr>
<tr>
<td><strong>Conservative Bank Chairman</strong></td>
<td>Dummy = 1 if the chairman of the savings bank’s supervisory board is a member of a conservative party (i.e., “CDU” or “CSU”).</td>
</tr>
</tbody>
</table>

The table shows a description of the variables we use in the empirical analysis.
### Table A.2: Event Type—Logit Models

<table>
<thead>
<tr>
<th>Dependent Variable: Event Type</th>
<th>(1)</th>
<th>(2)</th>
<th>(3)</th>
<th>(4)</th>
<th>(5)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Assets / GDP (t-1)</td>
<td>-0.755**</td>
<td>-1.093***</td>
<td>-0.707**</td>
<td>-1.058***</td>
<td>-1.243**</td>
</tr>
<tr>
<td>(0.299)</td>
<td>(0.262)</td>
<td>(0.337)</td>
<td>(0.309)</td>
<td>(0.595)</td>
<td></td>
</tr>
<tr>
<td>Capital Ratio (t-1)</td>
<td>-0.248</td>
<td>-0.334</td>
<td>-0.190</td>
<td>-0.326</td>
<td>-0.705</td>
</tr>
<tr>
<td>(0.182)</td>
<td>(0.251)</td>
<td>(0.184)</td>
<td>(0.278)</td>
<td>(0.524)</td>
<td></td>
</tr>
<tr>
<td>ROA (t-1)</td>
<td>0.353</td>
<td>0.458</td>
<td>0.237</td>
<td>0.411</td>
<td>-0.215</td>
</tr>
<tr>
<td>(0.420)</td>
<td>(0.357)</td>
<td>(0.458)</td>
<td>(0.407)</td>
<td>(0.669)</td>
<td></td>
</tr>
<tr>
<td>NPL Ratio (t-1)</td>
<td>-0.149*</td>
<td>-0.154*</td>
<td>-0.154*</td>
<td>-0.154*</td>
<td>-0.237**</td>
</tr>
<tr>
<td>(0.078)</td>
<td>(0.093)</td>
<td>(0.080)</td>
<td>(0.089)</td>
<td>(0.116)</td>
<td></td>
</tr>
<tr>
<td>Market Share (t-1)</td>
<td>0.051***</td>
<td>0.062***</td>
<td>0.051***</td>
<td>0.060***</td>
<td>0.067*</td>
</tr>
<tr>
<td>(0.016)</td>
<td>(0.018)</td>
<td>(0.018)</td>
<td>(0.018)</td>
<td>(0.035)</td>
<td></td>
</tr>
<tr>
<td>Deposit Ratio (t-1)</td>
<td>-0.038*</td>
<td>-0.044*</td>
<td>-0.028</td>
<td>-0.032</td>
<td>0.001</td>
</tr>
<tr>
<td>(0.023)</td>
<td>(0.025)</td>
<td>(0.026)</td>
<td>(0.027)</td>
<td>(0.038)</td>
<td></td>
</tr>
<tr>
<td>GDPPC Growth (t-1)</td>
<td>-0.109*</td>
<td>-0.130*</td>
<td>-0.111*</td>
<td>-0.135*</td>
<td>-0.139*</td>
</tr>
<tr>
<td>(0.060)</td>
<td>(0.068)</td>
<td>(0.060)</td>
<td>(0.069)</td>
<td>(0.079)</td>
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</tr>
<tr>
<td>Log(GDPPC) (t-1)</td>
<td>0.179</td>
<td>0.186</td>
<td>-0.217</td>
<td>-0.290</td>
<td>0.272</td>
</tr>
<tr>
<td>(0.552)</td>
<td>(0.676)</td>
<td>(0.584)</td>
<td>(0.749)</td>
<td>(0.865)</td>
<td></td>
</tr>
<tr>
<td>D(0-12 months after)</td>
<td>2.191***</td>
<td>2.381***</td>
<td>2.614*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(0.701)</td>
<td>(0.768)</td>
<td>(1.381)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D(12-24 months after)</td>
<td>2.753***</td>
<td>2.818***</td>
<td>3.571**</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(0.696)</td>
<td>(0.743)</td>
<td>(1.461)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D(24-36 months after)</td>
<td>1.976**</td>
<td>2.015**</td>
<td>2.804*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(0.781)</td>
<td>(0.978)</td>
<td>(1.526)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D(12-24 months before)</td>
<td>2.361**</td>
<td>2.583**</td>
<td>3.551</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(1.105)</td>
<td>(1.245)</td>
<td>(2.273)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Competitive County</td>
<td>-0.846**</td>
<td>-0.752*</td>
<td>-1.887**</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(0.401)</td>
<td>(0.430)</td>
<td>(0.752)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cons. Bank Chairman</td>
<td>-0.950***</td>
<td>-1.140***</td>
<td>-1.132**</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(0.360)</td>
<td>(0.440)</td>
<td>(0.465)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Time Dummies                  | YES       | YES       | YES       | YES       | YES       |
| Association Dummies           | NO        | NO        | NO        | NO        | YES       |
| Observations                  | 148       | 148       | 148       | 148       | 148       |
| Pseudo R-Squared              | 0.209     | 0.283     | 0.244     | 0.318     | 0.492     |

The table re-estimates the results from Table 4, using a nonlinear logit specification instead of the OLS specification. As before, the dependent variable Event Type equals one if the bank received capital injections from the owner and zero if the bank received support measures from the association. All columns include time dummies for the four election cycles in our sample (1994-1998, 1999-2003, 2004-2008, 2009-end of sample), and column 5 additionally includes a set of dummy variables that indicate the association of the bank. * indicates statistical significance at the 10 %-level, ** at the 5 %-level, and *** at the 1 %-level.
Table A.3: Long-Run Performance—Alternative Horizon

<table>
<thead>
<tr>
<th></th>
<th>Capital Ratio</th>
<th>NPL Ratio</th>
<th>LLP to CL</th>
<th>ROA</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(1) OLS</td>
<td>(2) IV</td>
<td>(3) IV</td>
<td>(4) IV</td>
</tr>
<tr>
<td>Owner</td>
<td>-0.367***</td>
<td>-0.621**</td>
<td>-0.886***</td>
<td>-0.965***</td>
</tr>
<tr>
<td></td>
<td>(0.133)</td>
<td>(0.266)</td>
<td>(0.299)</td>
<td>(0.301)</td>
</tr>
<tr>
<td>Constant</td>
<td>0.590***</td>
<td>0.709***</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(0.091)</td>
<td>(0.142)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Association Dummies</td>
<td>NO</td>
<td>NO</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>Time Dummies</td>
<td>NO</td>
<td>NO</td>
<td>NO</td>
<td>YES</td>
</tr>
<tr>
<td>Observations</td>
<td>66</td>
<td>66</td>
<td>66</td>
<td>66</td>
</tr>
<tr>
<td>R-squared</td>
<td>0.107</td>
<td>0.055</td>
<td>0.208</td>
<td>0.267</td>
</tr>
</tbody>
</table>

|               | (9) OLS       | (10) IV   | (11) IV   | (12) IV  |
| Owner         | 0.621***      | 0.903***  | 0.593     | 0.448    |
|               | (0.170)       | (0.343)   | (0.404)   | (0.403)  |
| Constant      | -0.698***     | -0.832*** |          |          |
|               | (0.117)       | (0.184)   |           |          |
| Association Dummies | NO | NO | YES | YES |
| Time Dummies  | NO | NO | NO | YES |
| Observations  | 65 | 65 | 65 | 65 |
| R-squared     | 0.175         | 0.139     | 0.265     | 0.321    |

The table shows robustness checks for the estimations presented in Table 7. In particular, we use four-year changes in the respective variables instead of five-year changes. As before, we restrict the sample to banks without a potential partner for a distressed merger to account for selection bias. Columns 1, 5, 9, and 13 report results for simple OLS regressions, where Owner is a dummy equal to one if the bank received capital injections from the owner and equal to zero if it received support from the association. The remaining columns show results for two-stage least squares regressions. In the first stage, we regress the dummy variable Owner on the political variables from above (dummies for the electoral cycle, competitive counties, and conservative bank chairmen), and the additional dummy variables specified at the bottom of the table. In the second change, predicted probabilities from the first stage are used to predict the five-year change in the respective variable. Again, we include the additional dummy variables denoted at the bottom of the table. * indicates statistical significance at the 10 %-level, ** at the 5 %-level, and *** at the 1 %-level.