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No. 9502

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*FINANCIAL ECONOMICS and
INTERNATIONAL MACROECONOMICS*



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Discussion Paper No. 9502
June 2013

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June 2013

ABSTRACT

Financial Sector Reform After the Crisis: Has Anything Happened?*

We analyze the reactions of stock returns and CDS spreads of banks from Europe and the United States to four major regulatory reforms in the aftermath of the subprime crisis, employing an event study analysis. In contrast to the public perception that nothing has happened, we find that financial markets indeed reacted to the structural reforms enacted at the national level. All reforms succeeded in reducing bail-out expectations, especially for systemic banks. However, banks' profitability was also affected, showing up in lower equity returns. The strongest effects were found for the Dodd-Frank Act (especially the Volcker rule), whereas market reactions to the German restructuring law were small.

JEL Classification: G21 and G28

Keywords: Dodd-Frank act, event study, financial sector reform, financial stability, German restructuring law, Swiss too-big-to-fail regulation, Vickers reform and Volcker rule

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*We would like to thank Robert DeYoung, Charles Goodhart, Florian Hett, Steven Ongena, Hans-Eggert Reimers, Björn Richter, and Takashi Yamagata for helpful comments. We also thank the participants of the following workshops and conferences for their comments: Graduate School of Economics at Pompeu Fabra, Annual Meeting of the German Economic Association, Annual Meeting of the German Finance Association, 9th Workshop on Money, Banking, and Financial Markets and the 1st ResearchWorkshop in Financial Economics at JGU Mainz. Excellent research assistance was provided by Victor Bozhinov, Anna Immel, Christoph Sohn, and Stefan Schmidt. We are grateful to NZZ for free access to the NZZ Archive. Financial support from Deutsche Forschungsgemeinschaft through SPP 1578 is gratefully acknowledged. Beatrice Weder di Mauro has been an independent director on the board of UBS since May 2012. The views expressed in this article are those of the author and should not be attributed to UBS.

Submitted 29 May 2013

1 Introduction

After the near-collapse of large parts of the financial system and unprecedented support measures from the public sector and central banks, the leaders of the G20 agreed on the need for a radical overhaul of the financial system. In the wake of the London summit in March 2009 and the creation of the Financial Stability Board, the supervisory community has been busy proposing, negotiating, and enacting a wide range of new regulations at the international level.¹ In parallel, several countries embarked on ambitious reforms at the national level, which have produced a set of structural measures, ranging from the prohibitions of activities and a ring-fencing of retail banking to special resolution or capital regimes for systemically important institutions. This high level of regulatory activity contrasts quite starkly with a widespread public perception that nothing major has happened in the financial sector and that reforms have not had any impact. Therefore, it seems only natural to ask whether reforms have had any measurable effects. It also seems natural to address this question to the market rather than the involved and interested parties.

In this paper we investigate the following questions: How have financial markets reacted to different types of regulatory reforms? In particular, have bank equity valuations and the prices of banks' credit risk been affected by regulatory measures? Have some reforms had a larger impact than others? Have different regulatory interventions had differing effects on different types of banks, such as investment and commercial banks, or systemic and non-systemic banks?

To answer these questions we analyze the reaction of equity returns and CDS spreads following major regulatory events of the banking industry during the period from June 2009 till October 2011 within the framework of an event study. We focus on four important national reform streams, namely the Dodd-Frank Act in the United States, the reforms proposed by the Vickers report in the United Kingdom, the restructuring law and bank levy in Germany, and the too-big-to fail regulation in Switzerland. These four reforms typify fundamentally differing approaches to dealing with the weaknesses of the financial system revealed by the financial crisis: a

¹See, e.g., Financial Stability Board (2009) for an overview of the different reform areas and regulatory work streams.

prohibition of risky activities (Volcker rule in the US), a ring-fencing of systemic activities (UK), the establishment of resolution procedures (Germany), and special capital regimes for systemically important banks (Switzerland).² We also take possible spillovers of national announcements on other countries' banking systems into account. Direct or indirect spillovers may occur either because the relative competitive position of banking centers is affected, or because announcements in one country serve as signals of regulatory changes to come in other countries. The choice of the sample period and, in particular, the fact that we cannot extend it beyond 2011 was dictated by the onset of the Euro crisis which increasingly dominated market signals on bank debt and equity. This also precludes the inclusion of more recent reform proposals, such as the Liikanen report (High-Level Expert Group, 2012).

As in any event study, the timing of events is of the essence. The identification of event periods is a particular challenge in studies evaluating regulatory changes (see, e.g., the discussion by Lamdin, 2001). Regulatory reforms are usually discussed over an extended period of time; there are consultations with experts and affected parties, negotiations between political parties and governments, which make a certain outcome more or less likely. Financial market participants are, of course, aware of these procedures even if they happen behind closed doors, and form outcome expectations, which they update regularly. If a financial reform were a completely predictable process, markets would be able to price in the outcome perfectly and the only real event would be the initial announcement of the reform. However, this is not the way the process of negotiating regulatory reforms works. The process produces compromises and surprises, tougher or weaker regulation than initially expected and therefore new information for markets. One crucial question is how to filter out the important events, the "real" news. Ideally, we would like to identify those events where truly new information (about content or probabilities) became available to markets. We use the editorial process of major financial newspapers as a filtering device: a reform measure is classified as an event if it was published as a lead article on the front page of a major newspaper.³

²The Dodd-Frank Act is the most comprehensive reform package of the four analyzed in this paper. While being only one among numerous other regulations, the Volcker rule has caught most of the attention. A more detailed description of the US regulation is found below.

³This procedure is common in the literature, see, for example, O'Hara and Shaw (1990) who base the timing of events on the publication date in the Wall Street Journal.

We are excluding the reforms enacted at the international level, most importantly the Basel III reforms. The reason is that the effects of such reforms can hardly be captured by an event-study analysis, for the following reasons. Given the nature of international negotiations where hundreds if not thousands of people are involved, market expectations are constantly updated. As stressed by MacKinlay (1997), event studies are less useful in such a context. Essentially, the event period uncertainty reduces the power of tests to reject the null hypothesis of no effect (Lamdin, 2001). By contrast, the deliberations in a small commission such as the Vickers commission or the commission preparing the Swiss too-big-to fail regulation are more likely to remain confidential, and the publication of the results would thus induce market prices to adjust suddenly to the changed outlook. Therefore these types of events may be better suited if one wants to capture the full effect “on impact.” Moreover, international reforms do not impose binding constraints on banks, e. g., because national reforms (such as the Swiss ones) are more demanding or because the will to implement the international agreements is in doubt (such as in the US).⁴

There is a long tradition of evaluating the effects of regulatory events using event studies, going back to Schwert (1981).⁵ A number of earlier studies deal with the effects of regulatory reforms on bank equity valuation. Eysell and Arshadi (1990) analyze the effects of imposing risk-based capital requirements under Basel I. Spiegel and Yamori (2003) measure the effect of two regulatory reforms in Japan on bank equity values. Some recent studies deal with the support measures in the current financial crisis. Veronesi and Zingales (2010) study the effect of the Paulson Plan on the valuation of banks relative to non-financial firms. Fratianni and Marchionne (2009) consider fiscal support measures in the banking sector during the recent financial crisis. Finally, a number of papers focus on the problem of systemic banks. O’Hara and Shaw (1990) investigate the effect of the US Comptroller of the Currency’s announcement in 1984 that some banks were “too big to fail.” Ueda and Weder di Mauro (2010) study changes in the implicit state subsidy to large banks in the US and in Europe including both bail-out (like Bear Stearns) and non-bail-out

⁴An earlier version of this paper also included international events. In fact, most international events did not provoke any significant market reactions. Due to the ambiguity in the interpretation of such results, we decided to focus on country-specific reforms in our analysis.

⁵For a discussion of methodological issues in event studies of regulatory events, see Binder (1985) and Lamdin (2001).

events (like Lehman). To our knowledge, we are the first to investigate the four major reform streams in the aftermath of the financial crisis, and their differing impact on market valuations.⁶

Our results reveal that the public perception that nothing has happened after the crisis does not do justice to the various national efforts to stabilize financial systems and contain systemic risk. We find that financial markets indeed reacted to the structural reforms enacted at the national level. The first announcement of the Volcker rule provoked strong reactions in both equity and CDS markets. Interestingly, the effects were not homogeneous across banks: US investment banks experienced a decrease in equity prices and an increase in CDS spreads relative to commercial banks; the same is true for systemic relative to non-systemic banks. The Volcker rule produced spillover effects to banks in the United Kingdom and Switzerland, but not to Germany. The watering down of the initial Volcker rule proposal in subsequent negotiations is also reflected in market prices, but the overall effect remains negative on equity, and positive on CDS. In contrast, the Vickers reform produced only a modest effect on equity prices, but a strong positive effect on CDS spreads. Again, the effect is more pronounced for investment banks and systemic banks. And again, we see a reversal of results when the Vickers reform was postponed, which indirectly supports the effectiveness of the reform. The overall positive effect on CDS spreads remains, however. A very different type of reform, the enactment of the German special resolution regime, generates little reaction in equity prices. However, we do see a response in CDS markets. In fact, systemic banks appear to have been more affected by the reform than non-systemic banks, although the effects are relatively small compared to the effects observed in other countries. Significant market reactions were also observed in response to the Swiss too-big-to-fail regulation, which strongly increased CDS spreads of systemic banks, but affected equity prices only mildly.

Taken together, these results suggest that all four reforms succeeded in lowering bail-out expectations, as reflected in rising CDS spreads, especially for systemically

⁶In a follow-up paper to our analysis, Bongini, Di Battista, Neri, and Pelagatti (2012) analyze the market reactions to events regarding the regulation of systemically important financial institutions (SIFIs). Their results show that markets hardly reacted to such events, similar to our previous results on international reforms.

important financial institutions. Equity prices were most strongly affected by the announcement of the Volcker rule, both directly (in the US) and indirectly (through spillover effects). This can be explained by the reduction in profitability if banks have to spin off profitable activities, such as trading and swap desk. The heterogeneity of market reactions, which can plausibly be linked to the characteristics of the respective reforms, strengthens the credibility of results. The effects are also quantitatively important. The biggest effects are found for the Dodd-Frank Act, most notably the Volcker Rule. The smallest effects are found for the German restructuring law, which may lack effectiveness due to its inability to deal with the failures of large cross-border banks. This points towards a general shortcoming of reforms carried out at the national level, namely their lack of international coordination, which may lead to regulatory arbitrage or limited effectiveness, as in the German case. It remains to be seen in the longer run which type of reform proves to be most successful and whether the different nations will be able to agree on a harmonization of structural reforms, over and above the common rules on capital requirements under Basel III.

The paper is organized as follows. In Section 2, we characterize the different types of reforms analyzed below and develop a number of predictions regarding their expected effects on equity valuations and CDS spreads. In Section 3, we describe our procedure of identifying relevant regulatory events and present the data set as well as the employed estimation and testing procedures. Section 4 contains our estimation results. For each financial reform, we discuss the effects on stock returns and CDS spreads, and test for heterogeneous effects with respect to business models (investment vs. commercial banks) and systemic importance. In the concluding Section 5, we discuss the implications of our research for economic policy.

2 Financial Sector Reforms and Market Valuations

As a first step, we describe the salient features of the reforms under study. Then we derive predictions regarding the expected effects of the reform packages on equity returns and CDS spreads.

2.1 Typology of Reform Approaches

In this study, we focus on the four major structural reforms conducted at the *national* level in the following countries: the United States, the United Kingdom, Germany, and Switzerland. Interestingly, the reform packages differ fundamentally in their approaches of dealing with systemic risk in the banking sector.

The most notable component of the reform package in the **United States** is the Volcker rule, which restricts banks' business models by prohibiting certain activities.⁷ In the spirit of the Glass-Steagall Act of 1933, the Dodd-Frank Act limits proprietary trading and investments in hedge funds and private equity. By prohibiting allegedly risky activities, the Volcker rule hopes to reduce the volatility of bank returns and thereby reduce the probability of bank failure. At the same time, it reduces potential diversification benefits between different types of businesses.⁸ One critical issue is how to distinguish prohibited activities from admissible ones, such as market making and hedging. The Dodd-Frank reform package also encompasses rules to tackle the too-big-to-fail problem. Specifically, large financial institutions will be subject to enhanced prudential regulation by the Federal Reserve Board, including the requirement to provide resolution plans (also known as living wills) to alleviate the winding up of an institution in case of failure. Moreover, the Dodd-Frank Act establishes the Financial Stability Oversight Council (FSOC), which is to identify potential threats to systemic stability.

The most important element of the Vickers reform in the **United Kingdom** is the ring-fencing approach, which aims at protecting the deposit-taking business from spillovers from investment banking activities in times of distress.⁹ The intention is to split banks into legally separated ring-fenced and non-ring-fenced units. The ring-fenced unit is to encompass the systemically important business (most impor-

⁷The 848 pages of regulation contain numerous other rules and regulation (see Dodd-Frank Act, 2010). For the sake of clarity, we concentrate on the most important ones.

⁸The empirical evidence indeed points towards higher risk of banks who also carry out non-interest income activities (see, e. g., Lepetit, Nys, Rous, and Tarazi, 2008; Demirgüç-Kunt and Huizinga, 2010; Chow and Surti, 2011). Non-interest banking activities have also been shown to raise banks' exposure to systemic risk (De Jonghe, 2010). The evidence of potential diversification benefits from combining traditional and non-traditional banking activities is mixed (see Stiroh, 2006; Baele, De Jonghe, and Vander Vennet, 2007).

⁹See United Kingdom Independent Commission on Banking (2011).

tantly, deposit-taking), but is prohibited from conducting non-traditional banking activities. The ring-fencing approach raises the resolvability of the investment bank arm and fosters the implicit guarantee of the deposit-taking arm, which is to be countered by higher capital requirements.¹⁰ The approach retains some diversification benefits, but only in one direction as capital flows from the deposit to the investment arm are restricted. In addition, banks are obliged to write living wills in order to assure an orderly liquidation process. In contrast to the Volcker rule, which can rather easily be implemented, the Vickers reform requires a costly and legally demanding reorganization of financial institutions. Moreover, crucial issues such as the treatment of globally operating institutions remain unresolved.

The reform package in **Germany** focuses on bank resolution. The new restructuring law intends to facilitate the resolution of failing banks by transferring the systemically relevant part of a failing institution to a bridge bank and subjecting the remaining part to insolvency proceedings.¹¹ In contrast to the Vickers approach, the restructuring law does not prescribe a legal separation of different businesses, and hence a reorganization, before failure. The law is accompanied by the establishment of a restructuring fund financed by a bank tax to ensure that the costs of future crises are borne by the financial sector. The tax base consists of uninsured bank debt, and the tax rate increases in the tax base, ranging from two to four basis points. Hence, larger banks have to pay higher tax rates than smaller ones, which is meant to account for differences in the systemic importance of banks. Again the major unresolved issue is the resolution of cross-border banks. Moreover, it remains unclear whether it will be possible to restructure a bank within days if no legal separation is required *ex ante*. Finally, the systemic component of the bank tax is rather small, and non-bank institutions are not covered.

The reforms in **Switzerland** focus on the too-big-to-fail problem. This issue is particularly pressing in Switzerland because the Swiss banking sector is dominated by two very large banks. The new too-big-to-fail regulation sharply increases capital

¹⁰Lóránth and Morrison (2012) argue that banks that combine investment and commercial banking may be less resolvable due to “tying” of the different types of businesses. Brunnermeier, Dong, and Palia (2012) show empirically that banks with higher non-interest income contribute more to systemic risk.

¹¹See Restrukturierungsgesetz (2010).

requirements, which are now well above the new Basel III requirements.¹² However, instead of implementing a pure equity buffer, the Swiss regulator decided to allow for contingent capital as part of the capital requirement. From the viewpoint of banks, contingent capital is cheaper due to the tax deductibility of interest payments. Hence, the regulation can be considered as an attempt to ensure a safe and sound banking system while maintaining banks' competitiveness.

In the following, we will derive predictions regarding these reforms' effects on banks' equity returns and CDS spreads.

2.2 Expected Effects of Regulatory Reforms

Table 1 gives an overview of the expected effects of the four different reform streams. In spite of the great differences in regulatory approaches, the table shows that predictions largely go in the same direction, although partly for different reasons.

Table 1: Expected Effects of Regulatory Reforms

Reform	Country	Major elements	Expected effect on equity returns	Stronger effect on ...		Expected effect on CDS spreads	Stronger effect on ...	
				investment banks	systemic banks		investment banks	systemic banks
Dodd-Frank Act	United States	Prohibition of activities, enhanced regulation of systemic institutions, resolution procedures	↓	yes	yes	↑	yes	yes
Vickers Report	United Kingdom	Ring-fencing approach, resolution procedures	↓	yes	yes	↑	yes	yes
Restructuring Law	Germany	Resolution procedures, bank tax	↓		yes	↑		yes
TBTF Regulation	Switzerland	Enhanced capital requirements for systemic banks	↓		yes	↑		yes

All four reforms are likely to reduce the profitability of banks and hence equity prices. The Dodd-Frank Act deprives banks from profitable business (e. g., trading,

¹²See Expertenkommission zur Limitierung von volkswirtschaftlichen Risiken durch Großunternehmen (2010).

derivatives desks), whereas the Vickers reform subjects banks to costly reorganization. German banks are subjected to a (relatively small) bank tax, whereas Swiss banks have to raise more costly equity.¹³ Moreover, all reforms are aimed at reducing bail-out expectations for systemic banks and are therefore expected to raise banks' CDS spreads. Rising funding costs in the presence of reduced bail-out expectations may in turn feed back into equity returns.

One notable feature of the four reforms is that they do not affect all banks to the same degree. In particular, systemic banks are expected to be affected more strongly since all reforms explicitly target systemic banks. Moreover, at least in the US and UK, investment banks are expected to be affected more strongly than commercial banks because reforms target investment banks, even if they are not considered to be systemically relevant.¹⁴

3 Empirical Methodology

In this section, we outline our empirical methodology. We start by describing the procedure of identifying events. Then we list data sources and present our estimation and testing procedures.

3.1 Identification of Events

The major challenge in any event study is the identification of “news.” This is particularly true for studies of regulatory changes, for which there never is an easily identifiable single event date. We define events by investigating major newspapers of the respective countries. An incident is classified as an event if it is published as a lead article on the front page of the considered newspaper. The objective of an editor is to give larger prominence to news that people are interested in because they learn new information. For instance, the enactment of a law that has long been agreed on will not make page one. But the deal that paved the way for the

¹³For a discussion of whether equity is really expensive, see Admati, DeMarzo, Hellwig, and Pfleiderer (2010) and Admati and Hellwig (2013).

¹⁴In Germany and Switzerland, there exist no pure investment banks.

law is more likely to make page one. This is the type of event that we want to capture. Hence, the fact that an event makes it to the front page suggests that there is something “new.”

We use the Financial Times US edition for the United States, the Financial Times UK edition for the United Kingdom, *Börsenzeitung* and *Financial Times Deutschland* (FTD) for Germany, and *Neue Zürcher Zeitung* (NZZ) for Switzerland.¹⁵ We started our search long before the actual passage of the law in order to identify all related occurrences that may have affected reform expectations. Each regulatory event in our study consists of a sequence of events. If all relevant subevents can be identified, one can hope to capture the full effect of the reform in question even if the reform was taking place in several steps (see Lamdin, 2001). Instead of a keyword search, we investigate *all* front pages of the given newspaper within a broadly defined period to identify all subevents related to one of the four reform streams. This approach seems superior because headlines and articles often do not contain reform names. Moreover, we check carefully whether the announcement of the news took place before or after the markets closed on the respective day, complementing the newspaper search by an extensive internet and newspaper search. The event date typically precedes the publication date by one day except for events taking place on weekends or after market closing. Table A1 lists all subevents used in our event study, giving details about the event dates, publication dates, newspapers, and headlines. The headlines already give a good impression of the perceived effect of events. For example, the announcement of the Volcker Rule was entitled “Obama hammers the banks.”

Naturally, all events have to be interpreted relative to market expectations. If a reform is weaker than had been expected initially, it may well be that the sign of the effect is reversed. This is a frequently the case when subsequent negotiations and lobby activities reverse part of the reform process, as we will see below.

¹⁵There are occasionally several editions published at one day for one newspaper. We use the default edition, retrievable on the archives of the respective newspaper.

3.2 Data

Our analysis is based on market prices (equity and CDS) of the largest banks from the United States, United Kingdom, Germany, and Switzerland. We investigate the biggest banks from each of those countries in terms of their market capitalization.¹⁶ With regard to equity, we use daily returns of stock prices, based on closing auctions. For the credit side, we use day-to-day differences in mid-prices of five-year senior credit default swap spreads (CDS spreads) on an end-of-day basis. Figures 1 and 2 depict the overall evolution of bank stock prices and CDS spreads in our sample over the years 2007 till 2011. We see a sharp rise in CDS spreads during the crisis phase, accompanied by a marked drop in stock prices. After the collapse, we observe a relaxation starting in the spring of 2009 in response to government bail-out measures and generous liquidity provision by central banks. Our period of interest covers the time from June 2009 until October 2011 following the relaxation phase when national governments started to design their own national responses to the crisis.

[Figures 1 and 2 about here]

Table 2 shows the summary statistics for our data sample. Data on bank stock prices and bank CDS spreads are taken from Datastream (Thomson Reuters). The number of observations for each bank is determined by the trading days between the first and the last observed regulatory event for each country, in addition to 140 trading days prior to the first event, required for an expanded estimation window. For this reason, the number of observations remains constant across banks within one particular country but varies across countries. For the purpose of testing for heterogeneous effects, we distinguish between investment banks and commercial banks. The distinction is based on two ratios: customer deposits as a share of total bank assets and non-interest income as a share of total bank revenue.¹⁷ Data for these ratios are from Bankscope (Bureau van Dijk). Furthermore, we split our bank

¹⁶For the United States, we used the ten largest banks, available in Datastream (Thomson Reuters). For the other countries, we use the maximum number of banks listed on the respective stock exchange.

¹⁷For this purpose, we ordered the banks in the US and UK by the first ratio in an ascending and by the second ratio in a descending manner. Summing the ranks for each bank and choosing the cut-off to be greater than 70 per cent of total possible rank score yielded the list of investment banks given in the summary statistics.

sample into systemic and non-systemic banks. The selection is based on the list of 29 globally systemically important financial institutions, published by the Financial Stability Board on 4th November 2011. Table 2 also shows our classification of banks into the different categories.

[Table 2 about here]

3.3 Estimation Procedure

Our goal is to check for abnormal returns on every event date. We estimate normal stock returns on the basis of the market model, using a widely diversified and globally structured benchmark index, namely the Stoxx Global Total Market Index.¹⁸ The use of a broad global index avoids the contamination of effects due to the interdependency of financial and non-financial firms within a given country, and the interdependence of banks in different countries.¹⁹

The empirical model for stocks consists of a system of equations, in which bank equity returns are regressed on a constant, the return of the market index, and dummy variables that are equal to 1 at the respective event dates. The left-hand-side variable is the daily return of the stock of bank j at time t , $j = 1, \dots, J, t = 1, \dots, T$. R_{Mt} is the return of the market portfolio (proxied by the benchmark index).

¹⁸Empirical research has shown that the market model yields very robust results, such that the use of more complicated models of stock returns seems unnecessary (see Campbell, Lo, and Mackinlay, 1996). Nevertheless, we reran our estimation for the United States according to a CAPM regression model, including the risk free rate, proxied by T-bills (see Jensen, 1968; Pettengill and Clark, 2001, for further discussion). Due to low and stable interest rates in the aftermath of the financial crisis, the results are very similar.

¹⁹See Ongena, Smith, and Michalsen (2003) for further discussion.

$$\begin{aligned}
R_{1t} &= \alpha_1 + \beta_1 R_{Mt} + \sum_{n=T-1}^{T+1} \tau_{1n} D_{1nt} + \epsilon_{1t} \\
&\dots \\
R_{jt} &= \alpha_j + \beta_j R_{Mt} + \sum_{n=T-1}^{T+1} \tau_{jn} D_{jnt} + \epsilon_{jt} \\
&\dots \\
R_{Jt} &= \alpha_J + \beta_J R_{Mt} + \sum_{n=T-1}^{T+1} \tau_{Jn} D_{Jnt} + \epsilon_{Jt}
\end{aligned}$$

Note that estimation coefficients differ across assets: α_j and β_j denote the bank-specific intercept and the beta factor attached to the market return, respectively. D_{jnt} indicates a vector of dummy variables for all subevents. For each subevent, there are three dummies: a pre-event dummy, which is equal to 1 one day before the event, $T - 1$, (and zero otherwise) to capture anticipatory effects; an event dummy that takes the value one on the day of the event, T (and zero otherwise); and finally a post-event dummy, which is equal to 1 one day after the event, $T + 1$ (and zero otherwise). When the estimation period includes other dates identified as event dates, such events are “dummied out” by including the respective event dummies in the regression; the estimation window is widened accordingly. This guarantees that normal returns are not mismeasured due to other regulatory events in the estimation period. In order to check the robustness of our results, we use two different estimation windows. The estimation window begins either 80 or 140 trading days before the event and ends one day prior to the event date. The estimated coefficient τ_{jn} on the dummies delivers the abnormal return for each individual bank stock for a given day in the event window. These coefficients are tested separately and in different aggregated manners for significance.

We estimate this system of regressions in a SUR framework (*seemingly unrelated regressions*, Zellner, 1962) instead of employing the traditional two-stage procedure for each individual asset, as described by Campbell, Lo, and Mackinlay (1996). This is the preferred method of dealing with “clustered” events, which affect many firms

at the same time.²⁰

We model the normal returns of banks' CDS spreads on the basis of the constant return model. The only difference, compared to the market model above, consists in the fact that no market return is used for the estimation of normal returns (see Campbell, Lo, and Mackinlay, 1996):

$$\begin{aligned} \Delta CDS_{1t} &= \mu_1 + \sum_{n=T-1}^{T+1} \tau_{1n} D_{1nt} + \epsilon_{1t} && \dots \\ &&& \dots \\ \Delta CDS_{jt} &= \mu_j + \sum_{n=T-1}^{T+1} \tau_{jn} D_{jnt} + \epsilon_{jt} && \dots \\ &&& \dots \\ \Delta CDS_{Jt} &= \mu_J + \sum_{n=T-1}^{T+1} \tau_{Jn} D_{Jnt} + \epsilon_{Jt}, \end{aligned}$$

where ΔCDS_{jt} is the first difference of CDS spreads, and μ_j denotes the mean of first differences of bank j within the estimation window. Otherwise, the estimation procedure is the same as for stock returns.

3.4 Testing

The estimated abnormal returns can be used to carry out a number of different tests. In the regression tables below, we present significance tests for the average abnormal return across banks on the event day T . In a SUR framework, it is straightforward to run such tests, taking into account contemporaneous correlations across stocks. In order to analyze the heterogeneity of effects, we also run separate tests for different types of banks. In the regression tables, we only display the differences between different bank groups (investment banks vs. commercial banks, systemic vs. non-systemic banks) and the respective significance tests. We also test

²⁰See Binder (1985) and Karafiath (1988).

for anticipation effects by considering average abnormal returns on day $T - 1$. The results are reported only if they are significant. In addition, we ran significance tests for the average cumulated return across banks over days T and $T + 1$. The results of these tests are displayed only if the abnormal return on date $T + 1$ turned out to be significant.

Event studies of regulatory reforms may suffer from low power. For example, an imprecise timing of events reduces the power of significance tests, i.e. raises the type II error, implying that one may not be able to reject the null hypothesis of no effect when the true effect is nonzero. In our estimation, we raise the power of significance tests by using daily return data, using short event windows (one or two days), and varying the length of the estimation window. These factors have been shown to increase the power of significance tests in event studies (see MacKinlay, 1997). Long event windows lead to a downward bias because they may contain many days without any news. Moreover, the shorter the event window, the less likely is the occurrence of other confounding events. In addition, we check directly whether other events not related to the considered reform took place at the same time. This becomes an issue at the time of the Greek debt crisis. Averaging may reduce the power of tests because positive and negative effects may compensate each other. This would, for example, be the case if a reform benefits some banks and harms others, which could on average lead to a zero effect. This problem is mitigated if abnormal returns are measured separately for different bank groups, as is done in our tests for heterogeneous effects.

4 Results

We now present our empirical results, starting with the United States, where the first reforms were initiated, then continuing with the United Kingdom, Germany, and Switzerland. Our main results are listed in Tables 3 to 7. They show the abnormal returns in equity prices and CDS spreads for all subevents, for which any significant reaction could be found either in equity prices or CDS spreads. The full list of results for all identified subevents can be found in the Appendix (see

Tables A2 to A5).²¹

4.1 United States – The Dodd-Frank Act

Table 3 presents the regression results for the Dodd-Frank Act in the United States (see Table A2 for detailed results on all subevents). The left panel shows the results on equity returns, the right panel those on CDS spreads. For each subevent, the table first displays the average overall return and then average abnormal returns for estimation windows of 80 and 140 days. The final two columns display differential abnormal returns of investment vs. commercial banks and systemic vs. non-systemic banks, respectively. The results for the enlarged event window are shown only if the post-event day showed a significant abnormal return. The last line of the table presents the sum of returns over all subevents. When the enlarged event window is shown, the summation considers the total effect including day $T + 1$ even if the effect of that day was insignificant. This avoids a summation of different event days for different columns (but it may bias the results against finding an overall effect).

[Table 3 about here]

Looking first at the summation line, the overall effect of the Dodd-Frank Act was a sharp increase in CDS spreads and a drop in equity prices. Hence, the reform lowered the profitability of banks by prohibiting profitable banking activities, but at the same time lowered bail-out expectations by enhancing prudential regulation and improving resolution procedures. The results are also quantitatively important. The sum of abnormal equity returns is around three percentage points, and CDS spreads increase by more than 35 basis points. Compared to the reforms in the other countries, especially the effect on CDS spreads is very large. The drop in equity prices was more pronounced for investment banks and systemic banks (relative to commercial and non-systemic banks, respectively). The same result is found for CDS spreads, although the differential between investment and commercial banks is relatively small. Hence, the heterogeneity of effects overall points in the expected

²¹The results on anticipation effects are reported in the Appendix tables if they turn out to be significant. In most cases, there are no significant market reactions. In a few instances, we do find anticipatory effects, which will be discussed below.

direction. However, markets do not seem to have anticipated a markedly different decrease in bail-out expectations for investment banks relative to commercial banks.

Considering individual subevents, we find that a large part of the overall effect is driven by the market reactions to the announcement of the Volcker Rule. For that subevent alone, CDS spreads rose by around 17 basis points. The effect on equity prices is also quite large, although - somewhat surprisingly - insignificant.²² The differential reactions of different bank groups are also pronounced during this subevent. The evolution of stock returns and CDS spreads around this date is depicted in Figures 3 to 6. The figures show the general drop in equity prices and increase in CDS spreads. We can also see a discrete widening of the differential between investment and commercial banks, and systemic and non-systemic banks after the announcement. However, especially for stocks, there also seems to have been a more gradual widening of the differential already before the announcement.

[Figures 3 - 6 about here]

The second noteworthy subevent is the dilution of the reform when the reform bill was finally agreed upon by democrats and republicans. The reform proposal was diluted to the extent that proprietary trading as well as hedge fund and private equity investments were now allowed to be conducted up to 3 per cent of a bank's capital. Moreover, the rule regarding the spin-off of lucrative derivatives desks was weakened. The "bouncing back" in stock returns indirectly supports the view that the initial reform was effective, although the total effect of the actual reform is reduced. Nevertheless, the total effect of the reform still points in the intended direction. The dilution is hardly visible in CDS spreads as the rules affecting bail-out expectations were not watered down in the final negotiations. Overall, the results point clearly towards a decrease in both bail-out expectations and banks' profitability.

²²A possible explanation is that the slide in bank stock prices provoked a downturn in the overall stock market when the Volcker Rule was announced. There even was a positive anticipation effect for equity (see Table A2), which, however, seems to have been related to a decrease in credit losses reported by several large US banks.

4.2 International Spillover Effects of the Dodd-Frank Act

The Dodd-Frank Act was the first major structural reform in response to the global financial crisis. Such a major reform is likely to have had effects beyond national borders. Therefore, we test for spillover effects from the reform to the banks in the United Kingdom, Germany, and Switzerland. It is conceivable that the reform in the United States sent a signal to the world that tougher regulation would also come about elsewhere.

In order to test for spillover effects, we checked whether any of the events regarding the Dodd-Frank Act led to a frontpage article in the other three countries. We identified three subevents that also appeared on the front pages in the other countries. For these three events, we estimate abnormal returns for UK, German, and Swiss banks. The results are found in Table 4.

[Table 4 about here]

We find substantially negative abnormal returns in the equity market for the United Kingdom and Switzerland.²³ In contrast, no significant spillovers to Germany can be found. As the British banking industry is similar to and strongly connected with the US banking industry, a spillover effect would have been expected. The average effect in Switzerland is smaller, which may however be driven by the fact that the two largest banks were hit strongly, whereas the cantonal banks, which are not very active in the trading and derivatives business, were hardly affected. This also explains why we find a highly significant coefficient for the difference between systemic and non-systemic banks in Switzerland.

Since market reactions to the Dodd-Frank Act anticipate future national reform efforts in the other three countries, we also include the spillover events in the tables for these countries. These will be discussed next.

4.3 United Kingdom – The Vickers Reform Proposals

We now consider the second big reform stream, which is the Vickers reform in the United Kingdom, with the ring-fencing approach in its center. The results are

²³We also find a positive anticipation effect in CDS markets for the UK (see Table A3).

displayed in Table 5 (detailed results for all subevents are found in Table A3). As shown by the summation line, we find a marked overall increase in CDS spreads of more than 15 basis points in response to the reform, whereas the effect on stock markets is modest. In the CDS market, we again find stronger effects for investment banks (by 6 basis points) and especially for systemic banks (by 18 basis points). Hence, the reform seems to have credibly reduced bail-out expectations for systemic banks in the UK.

[Table 5 about here]

The relatively small effect on equity markets is explained by the strong positive effect of the announcement to postpone the Vickers reform to the post-election period beyond 2015. This shifted bank reorganization and other costly consequences of the ring-fencing approach to the far and uncertain future and led to a rebound in equity prices by almost 9 percentage points, when considering the enlarged event window of 2 days cumulated stock returns. The postponement also shows up in CDS spreads, but here the overall effect remains strongly positive. The final publication of the Vickers Report had a large positive effect on CDS spreads, especially for systemic banks.²⁴ The differential effect for investment banks is much smaller, which can be explained by the uncertainty surrounding the time of implementation of the ring-fencing approach. This is also in line with the particularly sharp decrease in this differential after the announcement of the postponement.

Figures 7 to 10 illustrate the reactions of equity prices and CDS spreads for both groups of banks around the postponement and the final publication of the Vickers Report. Equity prices do not show a clear upward movement, but are largely flat, consistent with the regression results (see Figures 7 and 8). In contrast, CDS spreads clearly move upwards, although the movement is more gradual than it was, for example, around the announcement of the Volcker rule (see Figures 9 and 10). We can also see the negative differential between systemic and non-systemic banks after the postponement, which is reduced again at the publication date (see Figure 10). The overall big differential effect is not visible in the graph, which only shows a small subset of events out of the entire reform process.

²⁴There were also some anticipation effects both for the postponement and for the publication, further strengthening the observed effects on the event days (see Table A3).

[Figure 7 - 10 about here]

Just as for the Dodd-Frank Act, the overall effect of the Vickers reform proposal seems to have been a reduction in bail-out expectations, especially for systemically relevant financial institutions. The effect on profitability is, however, smaller than that observed in the United States.

4.4 Germany - The Restructuring Law and Bank Tax

In contrast to the United States and the United Kingdom, the German reform package focuses on the bank resolution process instead of implementing elements of a separate banking system. We now investigate market reactions in response to the introduction of the German restructuring law and bank tax.

[Table 6 about here]

The results are shown in Table 6. We find that just a single subevent produces significant market reactions (see Table A4 for detailed results on all subevents). The overall effect on stock returns and CDS spreads is small and insignificant. However, we do find a stronger increase in CDS spreads for systemic relative to non-systemic banks after the agreement on the key points of the bill, as would be expected for a reform that intends to reduce too-big-to-fail expectations. However, the effect is small (around 5 basis points) compared to those observed in the other reforms. Given the limited effectiveness of the reform due to the unresolved issue of cross-border banks and the small tax rate, this is not surprising.

Figure 11 depicts the evolution of CDS spreads around the announcement and shows nicely how CDS spreads of systemic and non-systemic banks discretely shift apart at the event date. Hence, the reform has exactly the intended effect to reduce bail-out expectations, but is not ambitious enough to produce large effects.

[Figure 11 about here]

4.5 Switzerland - The Too-Big-to-Fail-Regulation

Finally, we turn to the Swiss too-big-to-fail regulation, which stipulates enhanced equity buffers for systemic banks. The results are given in Table 7 (see Table A5 for

the results on the full set of subevents). As shown in the summation line, we observe an overall decrease in equity prices and a surge in CDS spreads. Interestingly, the drop in equity prices is mainly driven by the spill-over effect of the Volcker Rule as described above. The too-big-to-fail regulation itself does not produce additional stock price effects, indicating that higher equity buffers were not perceived to impose costs on banks over and above those that had already been priced in before. In contrast, the too-big-to-fail regulation produces strong and significant effects on CDS spreads, which rise by almost 10 basis points after the presentation of the preliminary report by the Too-Big-to-Fail Commission. Results on both equity prices and CDS spreads would be even bigger when taking into account anticipation effects (see Table A5). The increase in CDS spreads is also visible in Figure 12. The figure also shows that the increase started already one day before the event, illustrating the anticipation effects. Since CDS data only exist for systemic banks in Switzerland, a distinction between systemic and non-systemic banks is not feasible here.

[Table 7 about here]

[Figure 12 about here]

Overall, the results suggest that the reform was able to lower bail-out expectations. The relatively modest effect of the too-big-to-fail regulation on stock prices can be attributed to the allowance of contingent capital in increased equity buffers. Summing up, all four reform streams appear to affect bail-out expectations in the intended direction. The effects on stock prices, however, appear to depend on the design of the regulation.

5 Conclusion

In this paper we asked the question: Has anything happened in financial regulation after the crisis? Have the various structural reforms enacted in countries hosting major financial centers been registered in equity valuations and credit default spreads of their banks? The good news is that the answer is yes. In all cases, the reforms seem to have reduced bail-out expectations, especially for systemic banks, and lowered equity returns in many cases. We find the strongest results for the Dodd-Frank

Act and, in particular, the Volcker rule, which led to a significant decrease in equity prices and an increase in CDS spreads, especially for investment banks and systemic banks. The announcement of the Volcker rule also produced significant spillover effects to banks in the United Kingdom and to Switzerland. The response of market prices to the Vickers reform was a marked increase in CDS spreads, but less so in equity prices. In both instances, there were reversals when the reforms were watered down or postponed. In Germany, the introduction of a special resolution regime for systemic banks led to an increase in CDS spreads of such banks. Finally, in Switzerland, the too-big-to-fail regulation, which requires systemic banks to hold significantly higher levels of capital, led to a strong increase in CDS spreads of systemic banks.

These results give rise to obvious follow-up questions, such as: Has enough happened? The bad news is that we cannot really tell. There are several reasons why this is a much harder question to answer. The most important one is that we are ultimately interested in the safety of the financial system. While evidence suggests that lower bail-out expectations lead to lower risk-taking²⁵, our methodology is silent on this issue. In fact, with the data currently available, this question cannot be answered reliably. Only the future will tell. Moreover, it is not quite clear what is “enough.” For sure, the goal of reforms cannot be to generate the largest possible drop in equity prices and increase in CDS (By that measure, a reform that shuts down the system would be considered as a successful reform). Rather the measure of a successful reform should be that it eliminates the distortions stemming from systemic risk. One possible approach is to compare our results quantitatively with the funding cost differentials created by government support. According to Ueda and Weder di Mauro (2013), the value of the subsidy as of 2009 was as much as 60 to 80 basis points funding cost differential. Measured against this benchmark, we would conclude that none of the national reforms has been enough to fully eliminate the distortion.

The next question is whether some forms of structural reforms are better than others. After all there are different underlying and competing philosophies behind the

²⁵See, for example, Boyd and Gertler (1994), Schnabel (2009), and Gropp, Hakenes, and Schnabel (2011) on the effect of too-big-to-fail guarantees on banks’ risk-taking.

various reforms. The US and UK reform, in particular the Volcker Rule and the ring-fencing approach by Vickers, have the experience with separate banking systems as intellectual backdrops. By contrast, the Swiss and German reforms aim at increasing capital buffers and improving resolvability. It would be tempting to conclude by looking at the size of CDS spread changes that the US-type structural reform is the most effective. However, this would not necessarily be the right conclusion. Without doubt, the Volcker rule came as a bombshell. But apart from signaling the type of future reforms, this announcement made clear that national governments unilaterally would go beyond the fine-tuning of Basel regulations, which surprised investors all over the world. On the other side of the spectrum, it would be incorrect to conclude from the comparatively small effect that the German reform had on CDS spreads that resolutions regimes are generally ineffective. The problem of the German restructuring regime is not that it is ineffective in principle but that it turns out to be irrelevant in practice since it is implemented at the national level.

National restructuring regimes cannot solve the cross-border coordination issues, which proved to be crucial in the financial crisis. In the Euro area, this problem has been recognized and a supranational resolution regime is planned as part of the future banking union. But at the global level, the chances of solving the cross-border coordination issues are slim. The Basel process has delivered a framework of capital regulation but there is no robust framework for cross-border resolution. Unfortunately, the fact that different large countries are following different strategies in reforming their banking systems may actually make this cross-border coordination problem larger rather than smaller. This would be really bad news.

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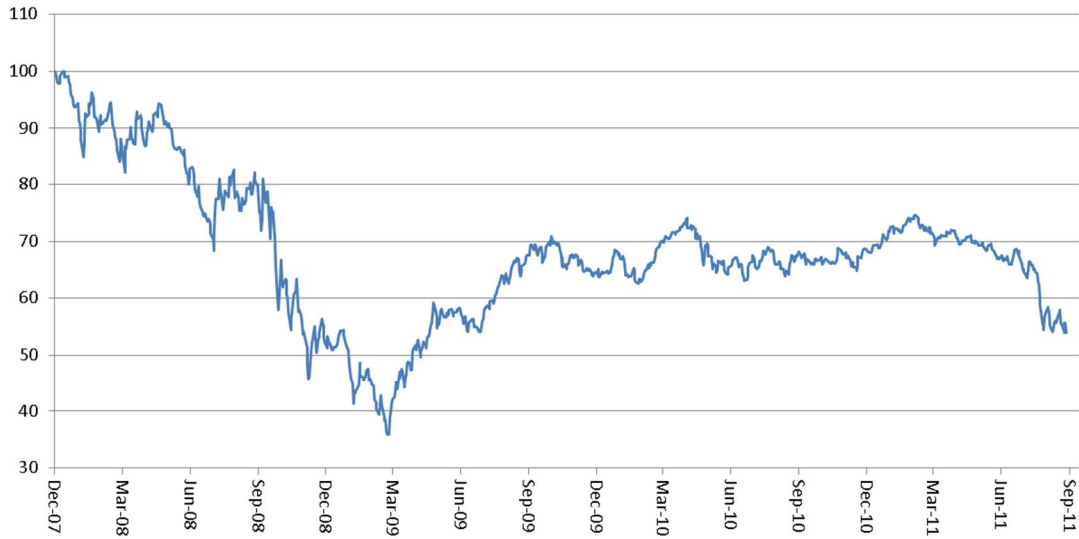
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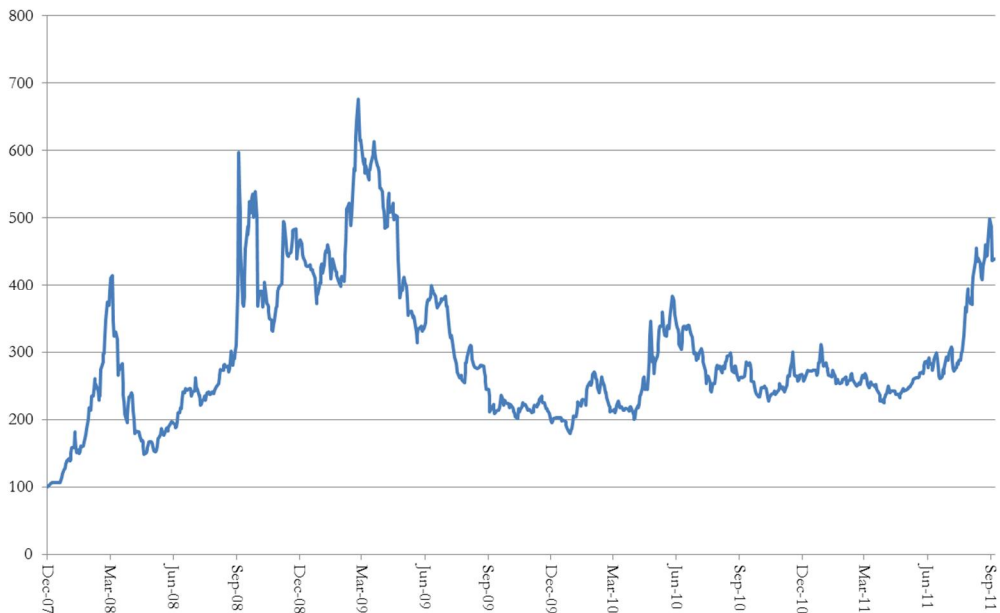
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Figure 1. Bank Stock Prices



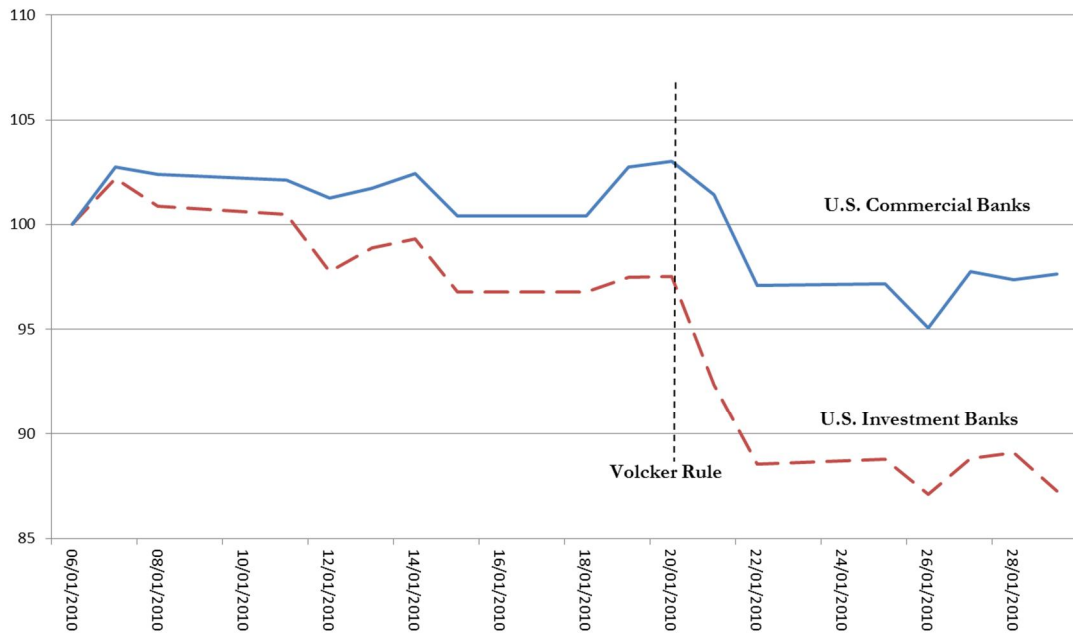
The figure shows the reaction of global stock prices of all banks in our sample. The graph shows an equally weighted index for stock prices, ranging from December 2007 to October 2011.

Figure 2. CDS Spreads



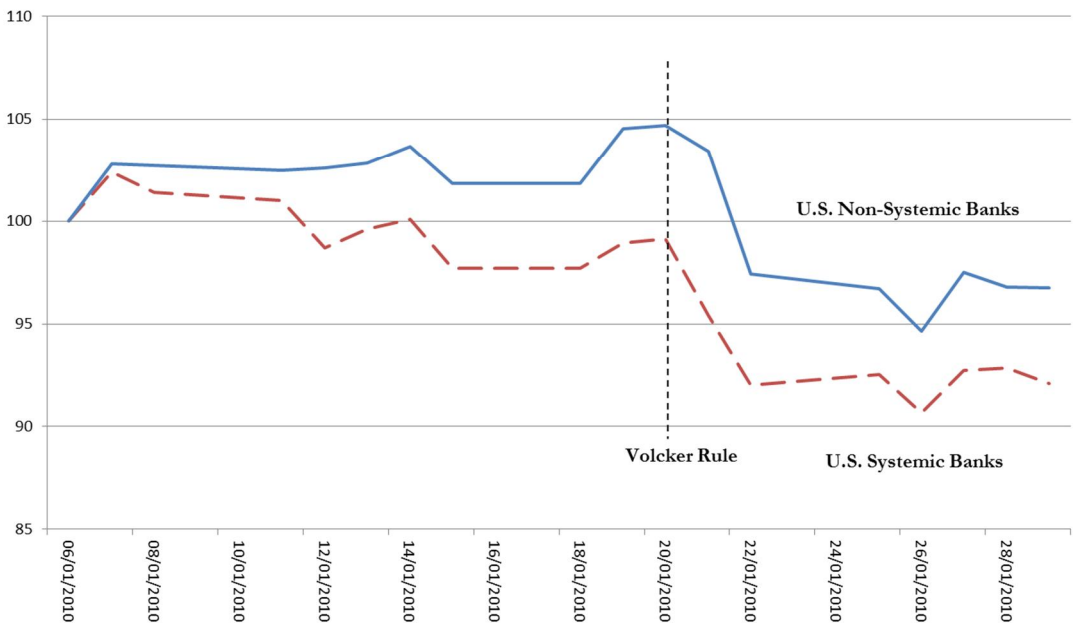
The figure shows the reaction of CDS spreads of all banks in our sample. The graph shows an equally weighted index for CDS spreads, ranging from December 2007 to October 2011.

Figure 3. The Volcker Rule | U.S. Stocks of Investment and Commercial Banks



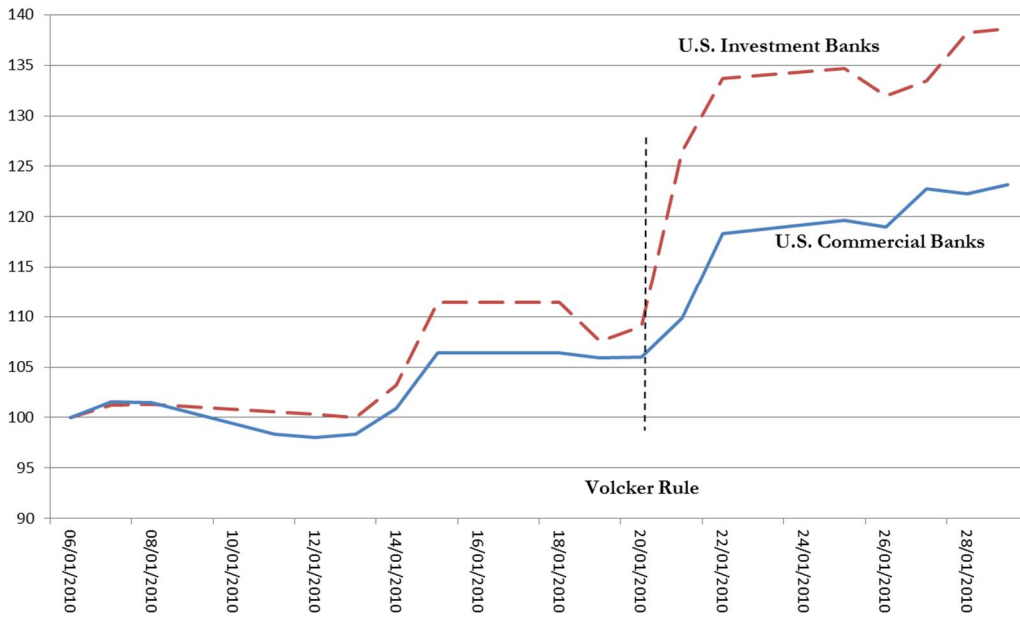
The figure shows the reaction of stock prices to the indicated regulatory event in the US. The graphs show equally weighted indices for stock prices, starting approximately two weeks prior to the announcement of the event. The two graphs refer to investment and commercial banks.

Figure 4. The Volcker Rule | U.S. Stocks of Systemic and Non-Systemic Banks



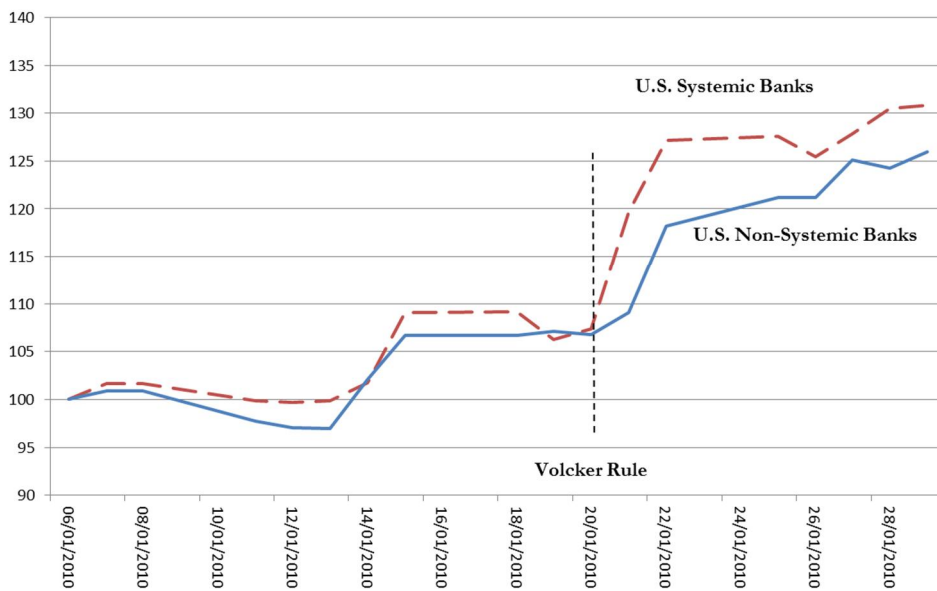
The figure shows the reaction of stock prices to the indicated regulatory event in the US. The graphs show equally weighted indices for stock prices, starting approximately two weeks prior to the announcement of the event. The two graphs refer to systemic and non-systemic banks.

Figure 5. The Volcker Rule | U.S. CDS Spreads of Investment and Commercial Banks



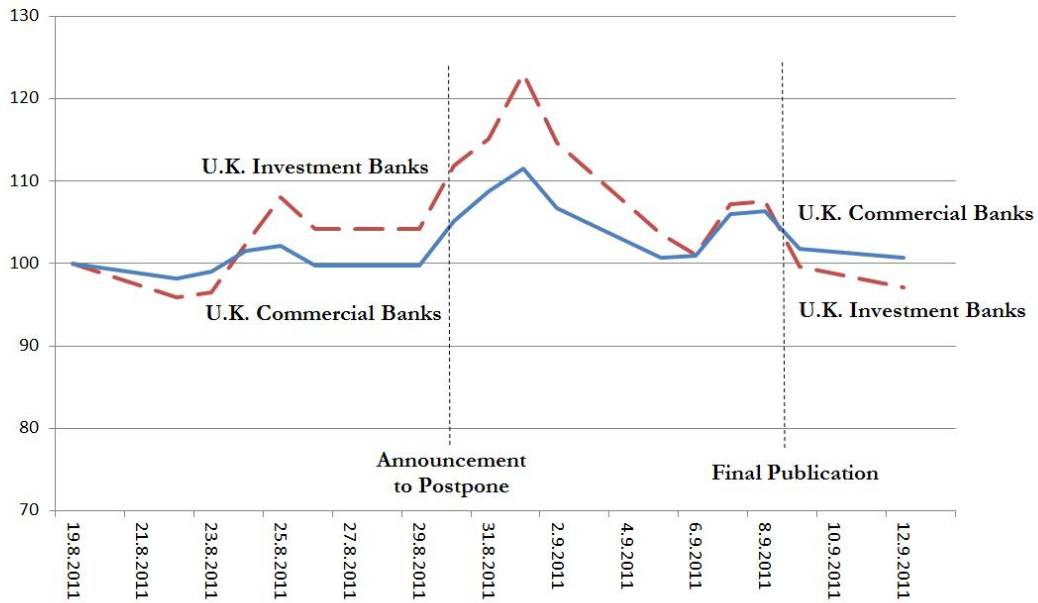
The figure shows the reaction of CDS spreads to the indicated regulatory event in the US. The graphs show equally weighted indices for CDS spreads, starting approximately two weeks prior to the announcement of the event. The two graphs refer to investment and commercial banks.

Figure 6. The Volcker Rule | U.S. CDS Spreads of Systemic and Non-Systemic Banks



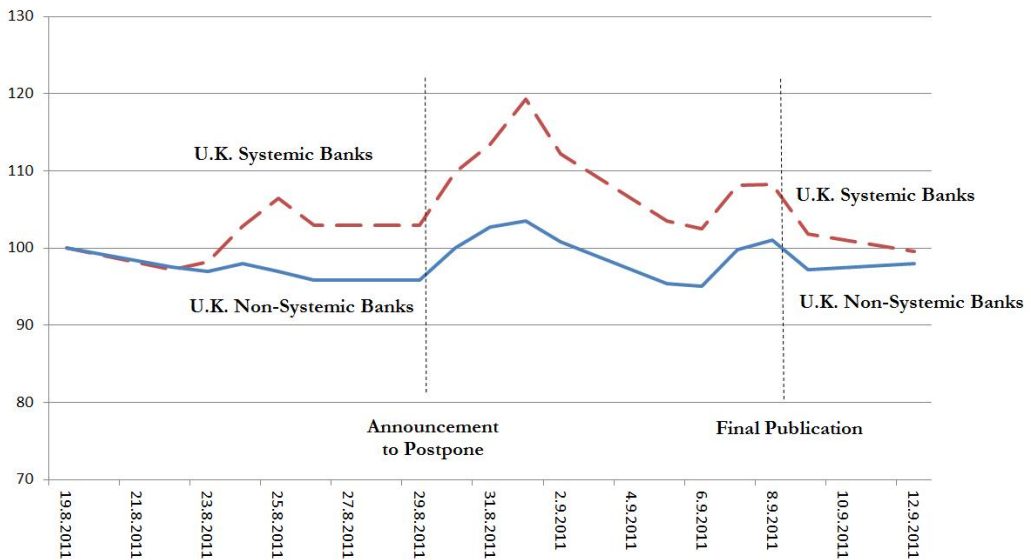
The figure shows the reaction of CDS spreads to the indicated regulatory event in the US. The graphs show equally weighted indices for CDS spreads, starting approximately two weeks prior to the announcement of the event. The two graphs refer to systemic and non-systemic banks.

Figure 7. The Vickers Reform | U.K. Stocks of Investment and Commercial Banks



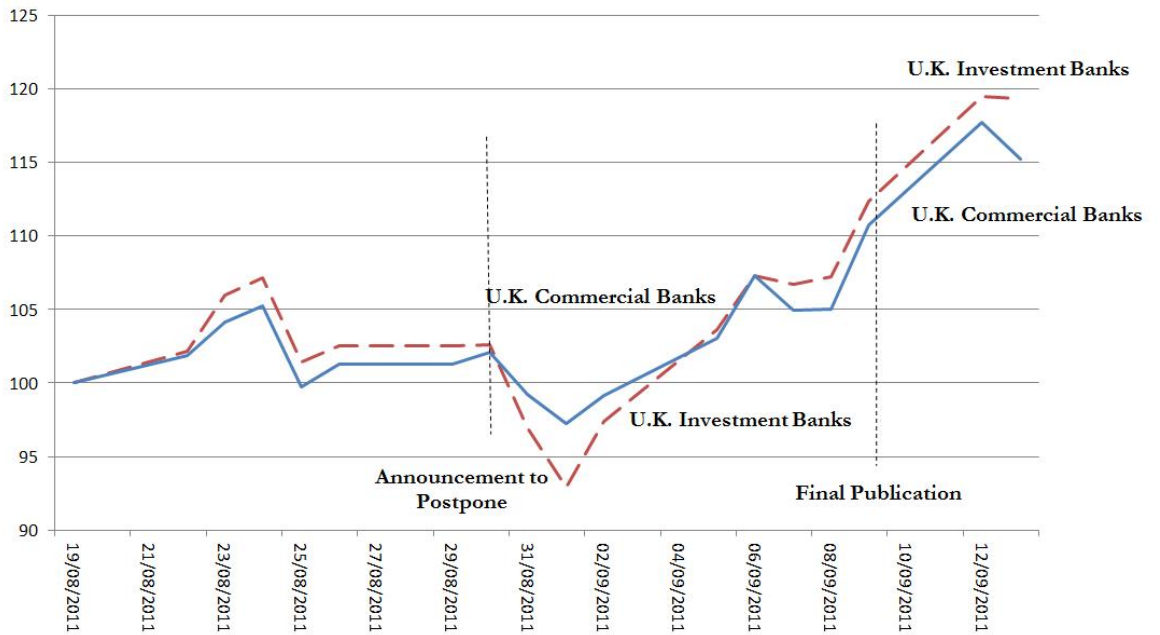
The figure shows the reaction of stock prices to the indicated regulatory events in the UK. The graphs show equally weighted indices for stock prices, starting approximately two weeks prior to the announcement of the first event. The two graphs refer to investment and commercial banks.

Figure 8. The Vickers Reform | U.K. Stocks of Systemic and Non-Systemic Banks



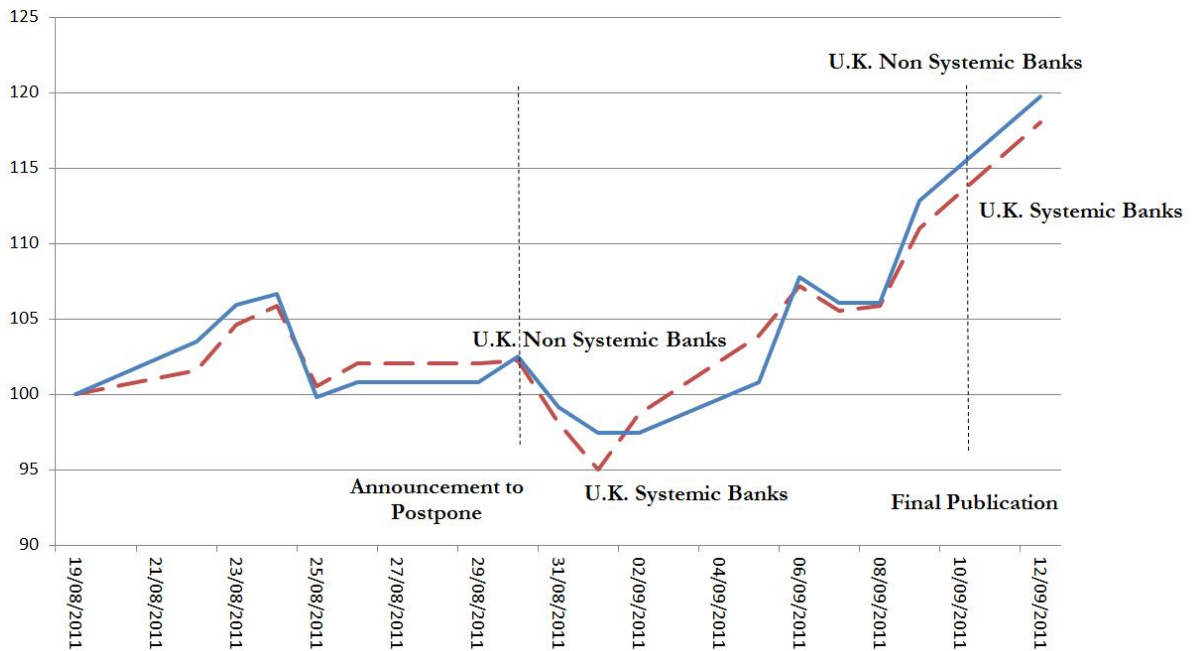
The figure shows the reaction of stock prices to the indicated regulatory events in the UK. The graphs show equally weighted indices for stock prices, starting approximately two weeks prior to the announcement of the first event. The two graphs refer to systemic and non-systemic banks.

Figure 9. The Vickers Reform | U.K. CDS Spreads of Investment and Commercial Banks



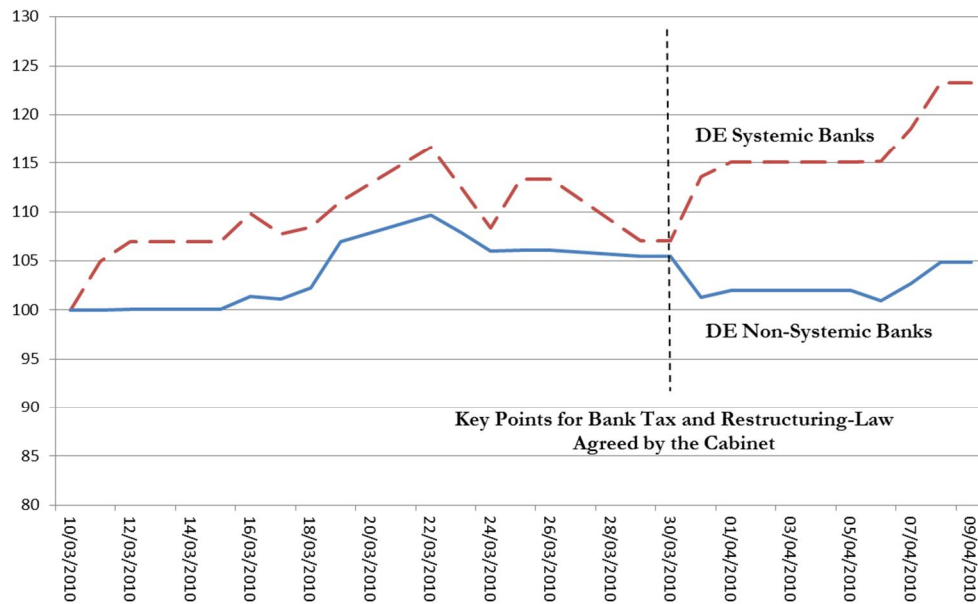
The figure shows the reaction of CDS spreads to the indicated regulatory events in the UK. The graphs show equally weighted indices for CDS spreads, starting approximately two weeks prior to the announcement of the first event. The two graphs refer to investment and commercial banks.

Figure 10. The Vickers Reform | U.K. CDS Spreads of Systemic and Non-Systemic Banks



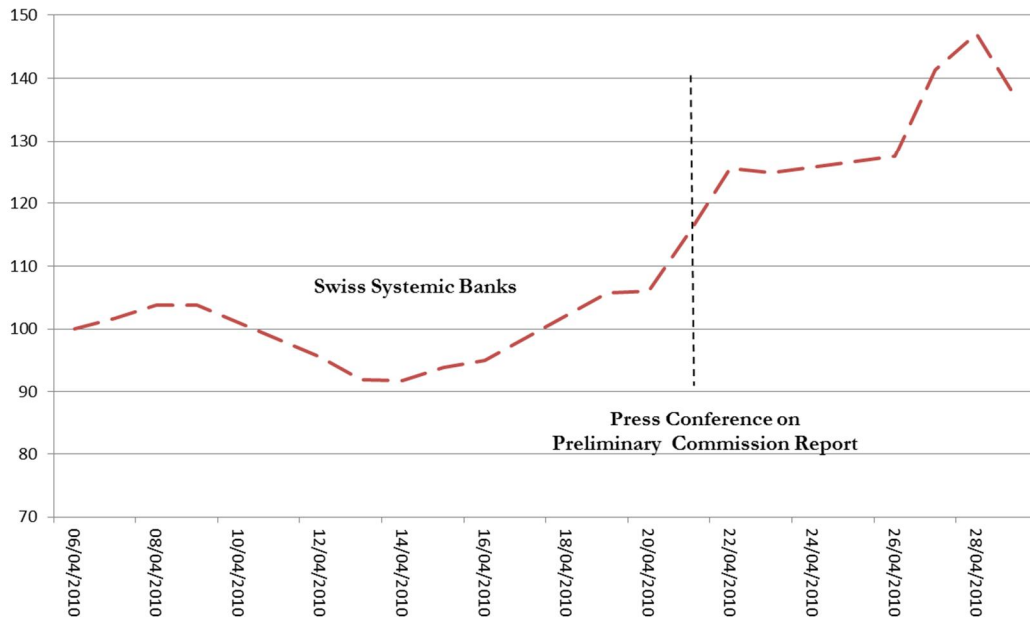
The figure shows the reaction of CDS spreads to the indicated regulatory events in the UK. The graphs show equally weighted indices for CDS spreads, starting approximately two weeks prior to the announcement of the first event. The two graphs refer to systemic and non-systemic banks.

Figure 11. German Bank Tax and Restructuring Law | German CDS Spreads of Systemic and Non-Systemic Banks



The figure shows the reaction of CDS spreads to the indicated regulatory event in Germany. The graphs show equally weighted indices for CDS spreads, starting approximately two weeks prior to the announcement of the event. The two graphs refer to systemic and non-systemic banks.

Figure 12. Swiss Too-Big-To-Fail-Regulation | Swiss CDS Spreads of Systemic Banks



The figure shows the reaction of CDS spreads to the indicated regulatory event in Switzerland. The graph shows an equally weighted index for CDS spreads, starting approximately two weeks prior to the announcement of the event. The graphs refers to systemic banks.

Table 2. Summary Statistics

Stock Returns									CDS Spread Differences								
Variable/Bank Name	Obs.	Mean	Std. Dev.	Min	Max	Country	Investment Bank	Systemic Bank	Variable/Bank Name	Obs.	Mean	Std. Dev.	Min	Max	Country	Investment Bank	Systemic Bank
Bank of America	430	0.0019	0.0643	-0.2897	0.3527	US	X	X	Bank of America	430	0.0068	11.0876	-58.3081	60.0000	US	X	X
Bank of New York Mellon	430	0.0004	0.0376	-0.1725	0.2105	US		X	Bank of New York Mellon	430	-0.4268	25.8032	-231.7500	317.2400	US		X
Capital One Financial	430	0.0022	0.0568	-0.2504	0.2643	US			Capital One Financial	430	-0.4310	10.8233	-49.4426	55.5525	US		
Citigroup	430	0.0005	0.0656	-0.3902	0.3810	US		X	Citigroup	430	-0.0868	22.0788	-238.8750	157.4899	US		X
Goldman Sachs Group	430	0.0019	0.0350	-0.1896	0.1807	US	X	X	Goldman Sachs Group	430	-0.3833	10.5185	-71.1074	47.4976	US	X	X
JP Morgan Chase	430	0.0014	0.0443	-0.2073	0.2510	US	X	X	JP Morgan Chase	430	-0.0721	6.6029	-29.1650	33.0540	US	X	X
Metlife	430	0.0020	0.0503	-0.2305	0.2245	US			Metlife	430	-0.3714	24.4859	-114.5667	210.4768	US		
Morgan Stanley	430	0.0022	0.0456	-0.2305	0.2870	US	X	X	Morgan Stanley	430	-0.4974	10.8647	-60.0000	40.0000	US	X	X
U.S. Bankcorp	430	0.0007	0.0450	-0.1817	0.2284	US			U.S. Bankcorp	430	-0.7699	13.8737	-84.2519	113.3276	US		
Wells Fargo	430	0.0013	0.0557	-0.2382	0.3170	US		X	Wells Fargo	430	-0.0011	9.0333	-45.2650	45.8700	US		X
Barclays	572	-0.0010	0.0275	-0.1147	0.1618	UK	X	X	Barclays	572	0.2410	5.6901	-39.7126	29.1990	UK	X	X
HSBC	572	0.0001	0.0157	-0.0598	0.0667	UK		X	HSBC	572	0.1703	6.6554	-69.3119	54.4810	UK		X
Lloyds Banking Group	572	-0.0003	0.0296	-0.1019	0.1395	UK		X	Lloyds Banking Group	572	0.3304	6.8401	-54.5287	49.6035	UK		X
Royal Bank of Scotland	572	-0.0005	0.0310	-0.1232	0.1374	UK	X	X	Royal Bank of Scotland	572	0.0896	2.4365	-14.9058	13.8877	UK	X	X
Standard Chartered	572	0.0005	0.0193	-0.0752	0.1167	UK			Standard Chartered	572	0.0358	3.1251	-16.4000	15.2800	UK		
Aareal Bank	332	0.0019	0.0303	-0.0832	0.1425	DE			Allianz	332	0.0293	3.4640	-23.2750	19.6855	DE		
Commerzbank	332	0.0002	0.0237	-0.0900	0.1193	DE		X	Commerzbank	332	0.0583	4.8643	-31.3873	28.1716	DE		X
Deutsche Bank	332	-0.0002	0.0219	-0.0727	0.1286	DE		X	Deutsche Bank	332	0.0050	5.4117	-46.8648	20.7904	DE		X
Deutsche Postbank	332	0.0002	0.0189	-0.0782	0.0820	DE			Bayerische Landesbank	332	0.2055	4.0363	-27.3274	29.2500	DE		
IKB	332	0.0014	0.0460	-0.1228	0.5500	DE			IKB	332	-0.2335	11.2943	-88.4599	88.5698	DE		
Bank Sarasin	562	0.0009	0.0145	-0.0776	0.0606	CH			Credit Suisse	562	-0.1226	5.3881	-33.4167	20.9800	CH		X
Banque Cantonale de Genève	562	0.0002	0.0096	-0.0393	0.0537	CH			UBS	562	-0.1666	4.3706	-35.3645	15.8504	CH		X
Banque Cantonale Vaudoise	562	0.0006	0.0148	-0.0631	0.0608	CH											
Credit Suisse	562	0.0000	0.0199	-0.0740	0.0882	CH		X	Total Observations CDS	9944							
Luzerner Kantonalbank	562	0.0006	0.0074	-0.0260	0.0340	CH											
St.Galler Kantonalbank	562	0.0004	0.0094	-0.0380	0.0451	CH											
UBS	562	0.0005	0.0220	-0.1006	0.1121	CH		X									
Zuger Kantonalbank	562	0.0007	0.0082	-0.0243	0.0274	CH											
Total Observations Stocks	13316																

Notes: Data for bank stock returns and bank CDS spreads are retrieved from Thomson Reuters (Datastream). The number of observations "Obs." for each variable is determined by the trading days between the first and the last observed regulatory event for each country, in addition to 140 trading days prior to the first event, required for the expanded estimation window. For this reason the number of observations remains constant across banks within one particular country but varies across countries, depending on the time period between the first and last observed event. "Std. Dev." stands for the standard deviation, "Min" indicates the lowest and "Max" the highest observed value within the sample. The Column "Investment Bank" indicates "X" if the respective bank is considered as an investment bank; otherwise the bank is considered as a commercial bank. The distinction is based on financial ratios, as is explained in the data section. Data for these ratios are retrieved from Bankscope (Bureau van Dijk). The column "Systemic Bank" displays whether the respective bank is considered as systemically relevant. The selection is based on the list of 29 systemically important financial institutions, published by the Financial Stability Board on 4th November 2011.

Table 3: Abnormal Returns in the United States (The Dodd-Frank Act)
P-values in brackets; dependent variable: daily bank stock return (left panel) and first difference in CDS spreads (right panel)

Estimation Window	Date	Stock Returns					CDS Spreads				
		80	140	80	80	80	140	80	80		
		Average Return	Average Abnormal Return	Average Abnormal Return	Investment vs. Commercial	Systemic vs. Non-Systemic	Average Return	Average Abnormal Return	Average Abnormal Return	Investment vs. Commercial	Systemic vs. Non-Systemic
Dodd-Frank Act											
Obama set to target banks with new fees	12-Jan-10	-1.624	-0.536 [0.673]	-0.661 [0.617]	-1.551* [0.056]	-2.525** [0.012]	-0.285	0.170 [0.967]	0.666 [0.904]	0.068 [0.981]	-0.074 [0.984]
Obama urges banks to take part in crisis costs	15-Jan-10	-2.187	-0.386 [0.761]	-0.517 [0.695]	-0.481 [0.554]	-0.837 [0.407]	3.725	7.131* [0.080]	7.660 [0.163]	-1.306 [0.651]	1.249 [0.736]
Announcement of the Volcker Rule	21-Jan-10	-3.060	-0.074 [0.953]	-0.177 [0.982]	-3.357*** [0.000]	-2.944*** [0.004]	7.773	8.242** [0.036]	8.754 [0.107]	7.863*** [0.006]	7.82** [0.033]
- Enlarged event window [0-1]		-7.223	-2.012 [0.261]	-2.161 [0.250]	-3.875*** [0.001]	-0.916 [0.530]	15.970	16.908*** [0.003]	17.932** [0.020]	5.289 [0.169]	4.022 [0.496]
Obama promoted reform plans in New York City	22-Apr-10	0.259	0.466 [0.669]	0.762 [0.520]	-0.136 [0.874]	0.216 [0.764]	5.103	5.421 [0.115]	5.526 [0.168]	-0.676 [0.749]	0.275 [0.930]
- Enlarged event window [0-1]		0.141	-0.333 [0.829]	-0.064 [0.969]	-0.377 [0.767]	-1.428 [0.163]	3.866	8.368* [0.087]	8.578 [0.131]	2.727 [0.413]	3.526 [0.426]
Democrats are willing to dilute rules for swap desks	16-May-10	-0.206	0.371 [0.736]	0.653 [0.590]	0.206 [0.825]	-0.800 [0.328]	4.436	0.624 [0.913]	0.573 [0.910]	-5.83** [0.021]	-5.155 [0.154]
Reform bill passes the senate	20-May-10	-4.432	-1.188 [0.293]	-0.691 [0.578]	0.317 [0.742]	-0.135 [0.874]	10.353	10.382** [0.067]	10.394** [0.037]	1.962 [0.491]	3.109 [0.429]
US Banks set to lose lobby fight on swaps	13-Jun-10	-0.121	-2.208** [0.037]	-2.186* [0.064]	-0.330 [0.719]	-0.825 [0.345]	-8.985	-5.797 [0.362]	-5.607 [0.299]	0.805 [0.771]	3.534 [0.312]
Consensuns between parties - the dilution -	25-Jun-10	2.825	2.74*** [0.009]	2.796** [0.014]	0.890 [0.325]	-0.105 [0.895]	-4.307	-4.514 [0.489]	-4.532 [0.404]	-2.674 [0.714]	-2.628 [0.571]
Summation		-12.825	-3.552	-2.832	-5.201	-7.572	24.772	38.694	35.664	1.041	7.582

Notes: The table shows the results from SUR regressions corresponding to the subevents for stock returns and CDS spreads, respectively, using estimation windows of 80 or 140 trading days. Each system of regressions includes 10 banks. All subevents refer to frontpage articles in the Financial Times, U.S. edition. The table displays all subevents, for which any significant reaction could be found either in equity prices or CDS spreads. The full list of results for all identified subevents can be found in the Appendix (Table A1). The number of observations ranges between 800 (corresponding to an estimation window of 80 days) and 1400 (140 trading days). All estimations are using balanced samples. If the estimation window contains another subevent, this is "dummied out" by including the corresponding event dummies (including pre- and post-event dummies). Through an iteration procedure, we make sure that all estimation windows contain exactly the given number of observations (not including other events). The regressions in the left panel use daily stock returns of banks as dependent variable (in percentage points), those in the right panel use daily first differences in bank CDS spreads (in basis points). The first number column in each panel displays the unadjusted average return of all banks within the sample at the respective event day. "Average Abnormal Returns" refer to the average abnormal return of all banks at the respective event day. The Column "Investment vs. Commercial" shows the difference in abnormal returns of investment banks and commercial banks. The splitting is based on customer deposits as a share of total assets and non-interest income as a share of total revenue. The column "Systemic vs. Non-Systemic" displays the difference in abnormal returns of systemically relevant and non-systemically relevant banks. The latter selection is based on the list of 29 systemically relevant institutions, published by the Financial Stability Board on 4th November 2011. The tests for heterogeneity are conducted on the basis of an 80 trading days estimation window. The p-values in brackets correspond to the tests whether the average abnormal returns and the difference in abnormal returns between the two given bank groups is equal to zero. All regressions include pre-event dummies in order to account for anticipation effects. The results for an enlarged event window of two days are displayed only if the average cumulated abnormal returns are statistically significant. Stars are to be interpreted as follows: *** significant at 1 percent, ** significant at 5 percent, * significant at 10 percent.

Table 4. Abnormal Returns due to Spillover Effects of United States Reform Events
P-Values in brackets; dependent variable: daily bank stock return (left panel) and first difference in CDS spreads (right panel)

		Stock Returns					CDS Spreads				
Estimation window		80	140	80	80	80	140	80	80	80	
	Date	Average Return	Average Abnormal Return	Average Abnormal Return	Investment vs. Commercial	Systemic vs. Non-Systemic	Average Return	Average Abnormal Return	Average Abnormal Return	Investment vs. Commercial	Systemic vs. Non-Systemic
United Kingdom											
Announcement of the Volcker Rule	21-Jan-10	-5.010	-4.801**	-5.141**	-2.246	0.527	1.978	1.940	2.334	0.842	2.349
			[0.022]	[0.016]	[0.202]	[0.757]		[0.344]	[0.372]	[0.628]	[0.304]
Consensuns between parties - the dilution -	25-Jun-10	-0.961	-1.363	-1.362	-1.751	-3.489**	2.132	2.017	1.823	2.825	2.678
			[0.558]	[0.539]	[0.202]	[0.021]		[0.766]	[0.734]	[0.566]	[0.700]
Dodd-Frank Act signed by Obama	21-Jul-10	0.656	0.568	0.538	-0.100	0.587	-3.402	1.544	1.433	1.411	2.034
			[0.808]	[0.814]	[0.944]	[0.697]		[0.812]	[0.792]	[0.769]	[0.762]
Germany											
Announcement of the Volcker Rule	21-Jan-10	-2.510	-1.962	-2.566	-	1.534	1.608	1.927	2.294	-	-0.451
			[0.369]	[0.307]		[0.250]		[0.404]	[0.450]		[0.864]
Consensuns between parties - the dilution -	25-Jun-10	-0.030	-0.093	-0.955	-	0.266	5.784	5.413	5.486	-	6.495
			[0.956]	[0.962]		[0.856]		[0.417]	[0.302]		[0.164]
Dodd-Frank Act signed by Obama	21-Jul-10	-0.045	n.a.	n.a.	-	n.a.	-2.482	0.230	0.367	-	0.936
								[0.973]	[0.945]		[0.840]
Switzerland											
Announcement of the Volcker Rule	21-Jan-10	-0.333	-1.346**	-1.494*	-	-4.54***	1.255	1.665	2.176	-	n.a.
			[0.043]	[0.052]		[0.006]		[0.612]	[0.619]		
Consensuns between parties - the dilution -	25-Jun-10	-0.165	-0.181	-0.195	-	-1.073	-8.265	-0.367	-0.338	-	n.a.
			[0.827]	[0.789]		[0.569]		[0.961]	[0.995]		
Dodd-Frank Act signed by Obama	21-Jul-10	-0.008	-0.015	-0.003	-	0.233	-6.840	n.a.	n.a.	-	n.a.
			[0.985]	[0.998]		[0.896]					

Notes: The table shows the results from SUR regressions corresponding to the subevents for stock returns and CDS spreads, respectively, using estimation windows of 80 or 140 trading days. All subevents refer to a simultaneous publication of a frontpage article in the U.S., U.K. and Europe edition of the Financial Times. In the case of stock returns each system of regressions includes 8 banks. In case of the United Kingdom each system of regressions includes 5 banks. The number of observations ranges between 400 (corresponding to an estimation window of 80 days) and 700 (140 trading days). In the case of Germany each system of regressions includes 5 banks. The number of observations ranges between 400 (corresponding to an estimation window of 80 days) and 700 (140 trading days). For Switzerland the samples on stock returns and CDS spreads have different sizes. In case of stock returns each system of regressions includes 8 banks. The number of observations for stock returns ranges between 640 (corresponding to an estimation window of 80 days) and 1120 (140 trading days). In the case of CDS spreads each system of regressions includes 2 banks. The number of observations for CDS spreads ranges between 160 (corresponding to an estimation window of 80 days) and 280 (140 trading days). If the estimation window contains another subevent, this is "dummied out" by including the corresponding event dummies (including pre- and post-event dummies). Through an iteration procedure, we make sure that all estimation windows contain exactly the given number of observations (not including other events). The regressions in the left panel use daily stock returns of banks as dependent variable (in percentage points), those in the right panel use daily first differences in bank CDS spreads (in basis points). The first number column in each panel displays the unadjusted average return of all banks within the sample at the respective event day. "Average Abnormal Returns" refer to the average abnormal return of all banks at the respective event day. The Column "Investment vs. Commercial" shows the difference in abnormal returns of investment banks and commercial banks. The splitting is based on customer deposits as a share of total assets and non-interest income as a share of total revenue. The column "Systemic vs. Non-Systemic" displays the difference in abnormal returns of systemically relevant and non-systemically relevant banks. The latter selection is based on the list of 29 systemically relevant institutions, published by the Financial Stability Board on 4th November 2011. The tests for heterogeneity are conducted on the basis of an 80 trading days estimation window. The p-values in brackets correspond to the tests whether the average abnormal returns and the difference in abnormal returns between the two given bank groups is equal to zero. All regressions include pre-event dummies in order to account for anticipation effects. The results for an enlarged event window of two days are displayed only if the average cumulated abnormal returns are statistically significant. Stars are to be interpreted as follows: *** significant at 1 percent, ** significant at 5 percent, * significant at 10 percent.

Table 5. Abnormal Returns in the United Kingdom (The Vickers Reform Proposals)
P-values in brackets; dependent variable: daily bank stock return (left panel) and first difference in CDS spreads (right panel)

Estimation window	Date	Stock Returns					CDS Spreads				
		Average Return	Average Abnormal Return	Average Abnormal Return	Investment vs. Commercial	Systemic vs. Non-Systemic	Average Return	Average Abnormal Return	Average Abnormal Return	Investment vs. Commercial	Systemic vs. Non-Systemic
The Vickers Reform Proposals											
Spill-Over-Effect: Announcement of the Volcker Rule	21-Jan-10	-5.010	-4.801**	-5.141**	-2.246	0.527	1.978	1.940	2.334	0.842	2.349
			[0.022]	[0.016]	[0.202]	[0.757]		[0.344]	[0.372]	[0.628]	[0.304]
Spillover effect: Consensuns between parties - the dilution -	25-Jun-10	-0.961	-1.363	-1.362	-1.175	-3.489**	2.132	2.017	1.823	2.825	2.678
			[0.558]	[0.539]	[0.202]	[0.021]		[0.766]	[0.734]	[0.566]	[0.700]
Barclays warns to levae U.K. in case of a bank break-up	05-Aug-10	-0.669	-0.833	-1.025	-3.004**	-0.668	4.150	3.995	4.056	4.571	5.239
			[0.745]	[0.654]	[0.048]	[0.658]		[0.576]	[0.495]	[0.388]	[0.483]
Big banks strike back at call for break-up	26-Jan-11	-1.011	-0.660	-1.292	-1.802	-1.690	-0.601	-0.567	-0.336	4.271**	5.386*
			[0.680]	[0.466]	[0.180]	[0.297]		[0.858]	[0.915]	[0.023]	[0.080]
Equity Requirements proposal (better than expected)	11-Apr-11	0.799	0.621	0.594	2.693**	1.827	-1.415	-1.255	-1.221	-0.329	-0.945
			[0.632]	[0.659]	[0.014]	[0.177]		[0.703]	[0.684]	[0.875]	[0.771]
Fear that foreign banks take advantage of tough UK regulation	17-Apr-11	-2.231	-0.425	-0.444	-1.450	-1.037	9.109	9.431***	9.312***	4.625**	3.408
			[0.741]	[0.740]	[0.180]	[0.438]		[0.003]	[0.002]	[0.024]	[0.291]
Osborne's pre-approval of the ringfencing approach	15-Jun-11	-1.743	-1.600	-1.667	-0.943	-0.630	4.391	4.248*	4.251	1.320	3.652
			[0.144]	[0.189]	[0.279]	[0.587]		[0.085]	[0.138]	[0.477]	[0.105]
Postponement of the reform to 2015 (post-election period)	31-Aug-11	3.164	-3.983	3.766*	0.317	1.005	-8.649	-10.011**	-9.286**	-8.07***	-5.32*
			[0.110]	[0.055]	[0.847]	[0.594]		[0.036]	[0.019]	[0.005]	[0.099]
- Enlarged event window [0-1]		7.366	8.972**	8.538***	5.408**	5.879**	-14.991	-17.73***	-16.27***	-14.246***	-9.069**
			[0.013]	[0.002]	[0.022]	[0.030]		[0.009]	[0.004]	[0.001]	[0.046]
Publication of the Vickers Report	12-Sep-11	-1.547	-1.120	-1.369	-0.317	-2.756	15.138	13.738***	14.455***	2.493	5.633*
			[0.657]	[0.495]	[0.847]	[0.138]		[0.004]	[0.000]	[0.382]	[0.075]
Summation		-5.007	-1.211	-3.167	-2.837	-2.038	19.892	15.817	18.405	6.359	18.330

Notes: The table shows the results from SUR regressions corresponding to the subevents for stock returns and CDS spreads, respectively, using estimation windows of 80 or 140 trading days. Each system of regressions includes 5 banks. All subevents refer to frontpage articles in the Financial Times, U.K. edition. The table displays all subevents, for which any significant reaction could be found either in equity prices or CDS spreads. The full list of results for all identified subevents can be found in the Appendix (Table A2). The number of observations ranges between 400 (corresponding to an estimation window of 80 days) and 700 (140 trading days). All estimations are using balanced samples. If the estimation window contains another subevent, this is "dummied out" by including the corresponding event dummies (including pre- and post-event dummies). Through an iteration procedure, we make sure that all estimation windows contain exactly the given number of observations (not including other events). The regressions in the left panel use daily stock returns of banks as dependent variable (in percentage points), those in the right panel use daily first differences in bank CDS spreads (in basis points). The first number column in each panel displays the unadjusted average return of all banks within the sample at the respective event day. "Average Abnormal Returns" refer to the average abnormal return of all banks at the respective event day. The Column "Investment vs. Commercial" shows the difference in abnormal returns of investment banks and commercial banks. The splitting is based on customer deposits as a share of total assets and non-interest income as a share of total revenue. The column "Systemic vs. Non-Systemic" displays the difference in abnormal returns of systemically relevant and non-systemically relevant banks. The latter selection is based on the list of 29 systemically relevant institutions, published by the Financial Stability Board on 4th November 2011. The tests for heterogeneity are conducted on the basis of an 80 trading days estimation window. The p-values in brackets correspond to the tests whether the average abnormal returns and the difference in abnormal returns between the two given bank groups is equal to zero. All regressions include pre-event dummies in order to account for anticipation effects. The results for an enlarged event window of two days are displayed only if the average cumulated abnormal returns are statistically significant. Stars are to be interpreted as follows: *** significant at 1 percent, ** significant at 5 percent, * significant at 10 percent.

Table 6. Abnormal Returns in Germany (Bank Tax and Restructuring-Law)
P-Values in brackets; dependent variable: daily bank stock return (left panel) and first difference in CDS spreads (right panel)

Estimation window	Date	Stock Returns				CDS Spreads			
		Average Return	Average Abnormal Return	Average Abnormal Return	Systemic vs. Non-Systemic	Average Return	Average Abnormal Return	Average Abnormal Return	Systemic vs. Non-Systemic
Bank Tax and Restructuring-Law	31-Mar-10	-0.100	-0.102	-0.253	-1.476	2.350	2.309	2.462	4.775**
Key points for Bank Tax and Restructuring-Law agreed by the cabinet			[0.954]	[0.913]	[0.294]		[0.266]	[0.212]	[0.014]

Notes: The table shows the result from a SUR regression corresponding to the subevent for stock returns and CDS spreads, respectively, using estimation windows of 80 or 140 trading days. Each system of regressions includes 5 banks. The subevent refers to a frontpage article of the *Börsenzeitung*. The table displays the subevents, for which any significant reaction could be found either in equity prices or CDS spreads. The full list of results for all identified subevents can be found in the Appendix (Table A3). The number of observations ranges between 400 (corresponding to an estimation window of 80 days) and 700 (140 trading days). All estimations are using balanced samples. If the estimation window contains another subevent, this is "dummied out" by including the corresponding event dummies (including pre- and post-event dummies). Through an iteration procedure, we make sure that all estimation windows contain exactly the given number of observations (not including other events). The regressions in the left panel use daily stock returns of banks as dependent variable (in percentage points), those in the right panel use daily first differences in bank CDS spreads (in basis points). The first number column in each panel displays the unadjusted average return of all banks within the sample at the respective event day. "Average Abnormal Returns" refer to the average abnormal return of all banks at the respective event day. The column "Systemic vs. Non-Systemic" displays the difference in abnormal returns of systemically relevant and non-systemically relevant banks. The selection is based on the list of 29 systemically relevant institutions, published by the Financial Stability Board on 4th November 2011. The test for heterogeneity is conducted on the basis of an 80 trading days estimation window. The p-values in brackets correspond to the tests whether the average abnormal returns and the difference in abnormal returns between the two given bank groups is equal to zero. All regressions include pre-event dummies in order to account for anticipation effects. Stars are to be interpreted as follows: *** significant at 1 percent, ** significant at 5 percent, * significant at 10 percent.

Table 7. Abnormal Returns in Switzerland (Too-Big-To-Fail-Regulation)

P-values in brackets; dependent variable: daily bank stock return (left panel) and first difference in CDS spreads (right panel)

		Stock Returns				CDS Spreads		
Estimation window		80	140	80		80	140	
Too-Big-To-Fail-Regulation	Date	Average Return	Average abnormal Return	Average abnormal Return	Systemic vs. Non-Systemic	Average Return	Average abnormal Return	Average abnormal Return
Spillover-Effect: Announcement of the Volcker Rule	21-Jan-10	-0.333	-1.346**	-1.494*	-4.54***	1.255	1.665	2.176
			[0.043]	[0.052]	[0.006]		[0.612]	[0.619]
Press conference on preliminary too-big-to-fail-report	22-Apr-10	-1.199	-0.959	-1.087	-2.067	9.953	9.994***	9.953***
			[0.157]	[0.158]	[0.181]		[0.002]	[0.003]
- Enlarged event window [0-1]		-0.204	0.036	-0.192	-0.142	4.623	9.487**	9.406**
			[0.970]	[0.861]	[0.926]		[0.039]	[0.045]
Summation		-1.532	-2.305	-2.581	-6.607	11.208	11.659	12.172

Notes: The table shows the results from SUR regressions corresponding to the subevents for stock returns and CDS spreads, respectively, using estimation windows of 80 or 140 trading days. All subevents refer to frontpage articles in Neue Zürcher Zeitung (NZZ). The table displays the subevents, for which any significant reaction could be found either in equity prices or CDS spreads. The full list of results for all identified subevents can be found in the Appendix (Table 4). In case of stock returns each system of regressions includes 8 banks. The number of observations for stock returns ranges between 640 (corresponding to an estimation window of 80 days) and 1120 (140 trading days). In case of CDS spreads each system of regressions includes 2 banks for reasons of availability. The number of observations for CDS spreads ranges between 160 (corresponding to an estimation window of 80 days) and 280 (140 trading days). If the estimation window contains another subevent, this is "dummied out" by including the corresponding event dummies (including pre- and post-event dummies). Through an iteration procedure, we make sure that all estimation windows contain exactly the given number of observations (not including other events). The regressions in the left panel use daily stock returns of banks as dependent variable (in percentage points), those in the right panel use daily first differences in bank CDS spreads (in basis points). The first number column in each panel displays the unadjusted average return of all banks within the sample at the respective event day. "Average Abnormal Returns" refer to the average abnormal return of all banks at the respective event day. The column "Systemic vs. Non-Systemic" displays the difference in abnormal returns of systemically relevant and non-systemically relevant banks. The latter selection is based on the list of 29 systemically relevant institutions, published by the Financial Stability Board on 4th November 2011. The tests for heterogeneity are conducted on the basis of an 80 trading days estimation window. The p-values in brackets correspond to the tests whether the average abnormal returns and the difference in abnormal returns between the two given bank groups is equal to zero. All regressions include pre-event dummies in order to account for anticipation effects. The results for an enlarged event window of two days are displayed only if the average cumulated abnormal returns are statistically significant. Stars are to be interpreted as follows: *** significant at 1 percent, ** significant at 5 percent, * significant at 10 percent.

A.1. Subevents according to Frontpage Articles

Subevent Name	Subevent Date	Frontpage Headline	Newspaper Edition	Date published
United States Dodd Frank Act				
Blueprint of the reform bill presented by Obama	17-Jun-09	"Companies face regulatory revamp"	FT US edition	18-Jun-09
Geithner calls for detailed living will plans	02-Sep-09	"Tax Threat to banks in 'living wills' plan"	FT US edition	03-Sep-09
Obama's Speech: Wall Street must change	14-Sep-09	"Obama: Wallstreet must Change"	FT US edition	15-Sep-09
Reform bill entered the house	11-Dec-09	"Finance regulation bill passed the house"	FT US edition	12-Dec-09
Obama set to target banks with new fees	12-Jan-10	"Obama set to target banks with new fees"	FT US edition	12-Jan-10
Obama urges banks to take part in crisis costs	14-Jan-10	"Obama vow on crisis cash"	FT US edition	15-Jan-10
Announcement of the Volcker Rule	21-Jan-10	"Obama hammers the banks"	FT US edition	22-Jan-10
Dodd urges republicans not to dilute the reform	14-Mar-10	"Dodd set for finance reform bill push"	FT US edition	15-Mar-10
Obama promoted reform plans in New York City	22-Apr-10	"Obama presses Wall St on reform"	FT US edition	23-Apr-10
Democrats are willing to dilute rules for swap desks	16-May-10	"Democrats eye deal on financial reform bill"	FT US edition	17-May-10
Reform bill passes the senate	20-May-10	"Democrats close in on financial reform bill"	FT US edition	22-May-10
Banks set to lose lobby fight on swaps	13-Jun-10	"US banks set to lose lobby fight on swaps"	FT US edition	14-Jun-10
Consensuses between parties - the dilution -	25-Jun-10	"Way clear for radical overhaul of Wall St"	FT US edition	26-Jun-10
Required votes for the bill achieved	15-Jul-10	"Wall St crackdown passed by the senate"	FT US edition	16-Jul-10
Dodd-Frank Act signed by Obama	21-Jul-10	"Obama signs bill to overhaul Wall Street"	FT US edition	22-Jul-10
United Kingdom Vickers Reform Proposals				
Spillover effect: Announcement of the Volcker Rule	21-Jan-10	"Obama hammers the banks"	FT UK edition	22-Jan-10
Appointing the Vickers Commission	16-Jun-10	"FSA to be abolished in Osborne shake-up"	FT UK edition	17-Jun-10
Spillover effect: Consensuses between parties - the dilution -	25-Jun-11	"Way clear for radical overhaul of Wall St"	FT UK edition	26-Jun-10
Barclays warns to levae U.K. in case of a bank break-up	05-Aug-10	"Barclays warns on break-up of banks"	FT UK edition	06-Aug-10
Vickers tends to split up big banks	18-Jan-11	"Vickers to put banks on notice"	FT UK edition	19-Jan-11
Big banks filed petitions for not splitting up banks	26-Jan-11	"Big banks strike back at calls for break-up"	FT UK edition	27-Jan-11
Osborne backs higher capital requirements for banks	06-Mar-11	"Osborne backs capital shake-up"	FT UK edition	07-Mar-11
Senior Whitehall officials push for peace deal with banks	30-Mar-11	"Push for banks peace deal"	FT UK edition	31-Mar-11
Osborne welcomes banks reforms	08-Apr-11	"Osborne welcomes bank reforms"	FT UK edition	09-Apr-11
Equity requirements proposal (better than expected)	11-Apr-11	"Vickers puts Lloyds in line of fire"	FT UK edition	12-Apr-11
Fear that foreign banks take advantage of tough UK regulation	17-Apr-11	"Loophole fears over Vickers bank rules"	FT UK edition	18-Apr-11
Osborne's pre-approval of the ringfencing approach	15-Jun-11	"Osborne to endorse 'ringfence' for banks"	FT UK edition	16-Jun-11
Postponement of the reform to 2015	31-Aug-11	"Banks to avoid big shake-up until 2015"	FT UK edition	01-Sep-11
Publication of the Vickers Report	12-Sep-11	"Vickers plan shakes up City"	FT UK edition	13-Sep-11
Germany Bank Tax and Restructuring Law				
Constitutional experts: A Bank Tax is juridical feasible	08-Mar-10	"Juristen geben Okay für Bankenabgabe"	FTD	09-Mar-10
Governing coalition urges for Bank Tax	21-Mar-10	"Liberale bitten zur Kasse"	FTD	22-Mar-10
Key points for Bank Tax and Restructuring-Law agreed by the cabinet	31-Mar-10	"Berlin und Paris bei Bankenabgabe einig"	BÖZ edition 63	01-Apr-10
Bank Tax and Restructuring-Law passed by the federal cabinet	25-Aug-10	"Bankenabgabe ruft Widerstand hervor"	BÖZ edition 163	26-Aug-10
Threat to call the mediation committee - one state blocks the bill	19-Nov-10	"Hessen bleibt bei Bankenabgabe hart"	BÖZ edition 225	20-Nov-10
Switzerland Too-Big-To-Fail-Regulation				
Appointment of the too-big-to-fail-comission	04-Nov-09	"14 Experten für das Großbanken-Problem"	NZZ Swiss edition	05-Nov-09
Spillover-Effect: Announcement of the Volcker Rule	21-Jan-10	"Obama nimmt Banken an die Kandarre"	NZZ Swiss edition	22-Jan-10
Financial Market Supervision (FINMA) claims law on large banks	23-Mar-10	"Finanzmarktaufsicht will schärfere Gesetze"	NZZ Swiss edition	24-Mar-10
Press conference on preliminary too-big-to-fail-report	22-Apr-10	"Schärfere Vorschriften für Großbanken"	NZZ Swiss edition	23-Apr-10
Big banks need more capital according to Basel III	07-Sep-10	"Großbanken brauchen Kapital"	NZZ Swiss edition	09-Sep-10
Basel III comitte sets the equity requirements	13-Sep-10	"Erleichterte Banken"	NZZ Swiss edition	14-Sep-10
Press conference - presenting the final report	04-Oct-10	"Strengeres Regime für UBS und Credit Suisse"	NZZ Swiss edition	05-Oct-10
Swiss federal council adopts draft of law for large banks	21-Dec-10	"Der Schweizer Finma steht eine Juristin vor"	NZZ Swiss edition	22-Dec-10
Disagreement about application of equity requirements	04-Apr-11	"Heikler Umgang mit den Großbanken"	NZZ Swiss edition	05-Apr-11
Large banks welcome new rules	15-Jun-11	"Banken begrüßen Klärung"	NZZ Swiss edition	16-Jun-11

Notes: The table shows all country-specific subevents published as lead articles on page one of the listed newspapers and editions. "FT" stands for Financial Times, "FTD" for Financial Times Deutschland, "BÖZ" for Börsenzeitung, and "NZZ" for the Neue Zürcher Zeitung. The subevent date and the date of its publication typically differ by one day because there is a time lag in publication. However, the difference can be larger when there is a weekend/holiday between the subevent date and the date of publication, or smaller when the decision about the regulatory issue was reached after the market's closing auction (then the subevent date and the date of publication coincide).

A.2. Abnormal Returns in the United States (Dodd-Frank Act)

P-values in brackets; dependent variable: daily bank stock return (left panel) and first difference in CDS spreads (right panel)

Estimation window		Stock Returns					CDS Spreads				
		80	140	80	80	80	80	140	80	80	
	Date	Average Return	Average Abnormal Return	Average Abnormal Return	Investment vs. Commercial	Systemic vs. Non-Systemic	Average Return	Average Abnormal Return	Average Abnormal Return	Investment vs. Commercial	Systemic vs. Non-Systemic
Dodd-Frank Act											
Blueprint of the reform bill presented by Obama	17-Jun-09	-2.670	-1.378 [0.761]	-1.275 [0.769]	-0.175 [0.955]	-1.757 [0.550]	8.836	9.890 [0.608]	9.848 [0.61]	-7.607 [0.627]	-2.065 [0.879]
Geithner calls for detailed living will plans	02-Sep-09	-1.033	-0.413 [0.845]	-0.041 [0.991]	-0.516 [0.720]	-0.353 [0.813]	2.060	5.228 [0.609]	3.280 [0.831]	2.679 [0.675]	2.837 [0.736]
Obama's Speech: Wall Street must change	14-Sep-09	0.892	0.835 [0.657]	0.708 [0.847]	0.384 [0.735]	-0.003 [0.807]	-0.342	1.806 [0.815]	0.857 [0.956]	-1.516 [0.786]	-1.189 [0.876]
Reform bill entered the house	11-Dec-09	0.663	0.418 [0.729]	0.415 [0.801]	-0.964 [0.289]	-1.187 [0.272]	-1.951	-1.629 [0.769]	0.336 [0.963]	-3.336 [0.330]	-2.517 [0.586]
Obama set to target banks with new fees	12-Jan-10	-1.624	-0.536 [0.673]	-0.661 [0.617]	-1.551* [0.056]	-2.525** [0.012]	-0.285	0.170 [0.967]	0.666 [0.904]	0.068 [0.981]	-0.074 [0.984]
Obama urges banks to take part in crisis costs	15-Jan-10	-2.187	-0.386 [0.761]	-0.517 [0.695]	-0.481 [0.554]	-0.837 [0.407]	6.709	7.131* [0.080]	7.660 [0.163]	-1.306 [0.651]	1.249 [0.736]
- Anticipatory effect [-1]	20-Jan-10	0.163	3.126** [0.014]	3.023** [0.021]	-1.059 [0.197]	-0.340 [0.736]	0.901	1.370 [0.730]	1.882 [0.729]	0.211 [0.941]	1.203 [0.742]
Announcement of the Volcker Rule	21-Jan-10	-3.060	-0.074 [0.953]	-0.177 [0.982]	-3.357*** [0.000]	-2.944*** [0.004]	7.773	8.242** [0.036]	8.754 [0.107]	7.863*** [0.006]	7.82** [0.033]
- Enlarged event window [0-1]		-7.223	-2.012 [0.261]	-2.161 [0.250]	-3.875*** [0.001]	-0.916 [0.530]	15.970	16.908*** [0.003]	17.932** [0.020]	5.289 [0.169]	4.022 [0.496]
Dodd urges republicans not to dilute the reform	14-Mar-10	-0.085	0.835 [0.495]	0.843 [0.495]	-0.598 [0.465]	-0.807 [0.317]	-0.650	0.330 [0.929]	0.808 [0.870]	-0.587 [0.800]	0.038 [0.991]
Obama promoted reform plans in New York City	22-Apr-10	0.259	0.466 [0.669]	0.762 [0.520]	-0.136 [0.874]	0.216 [0.764]	5.103	5.421 [0.115]	5.526 [0.168]	-0.676 [0.749]	0.275 [0.930]
- Enlarged event window [0-1]		0.141	-0.333 [0.829]	-0.064 [0.969]	-0.377 [0.767]	-1.428 [0.163]	3.866	8.368* [0.087]	8.578 [0.131]	2.727 [0.413]	3.526 [0.426]
Democrats are willing to dilute rules for swap desks	16-May-10	-0.206	0.371 [0.736]	0.653 [0.590]	0.206 [0.825]	-0.800 [0.328]	4.436	0.624 [0.913]	0.573 [0.910]	-5.83** [0.021]	-5.155 [0.154]
- Anticipatory effect [-1]	19-May-10	0.564	1.454 [0.181]	1.738 [0.152]	1.310 [0.157]	-1.188 [0.293]	4.762	4.791 [0.397]	4.809 [0.334]	-5.22* [0.067]	-4.821 [0.220]
Reform bill passes the senate	20-May-10	-4.432	-1.188 [0.635]	-0.691 [0.685]	0.317 [0.199]	-0.135 [0.504]	10.353	10.382** [0.226]	10.394** [0.152]	1.962 [0.433]	3.109 [0.996]
Banks set to lose lobby fight on swaps	13-Jun-10	-0.121	-2.208** [0.037]	-2.186* [0.064]	-0.330 [0.719]	-0.825 [0.345]	-8.985	-5.797 [0.362]	-5.607 [0.299]	0.805 [0.771]	3.534 [0.312]
Consensuns between parties - the dilution -	25-Jun-10	2.825	2.74*** [0.009]	2.796** [0.014]	0.890 [0.325]	-0.105 [0.895]	-4.307	-4.514 [0.489]	-4.532 [0.404]	-2.674 [0.714]	-2.628 [0.571]
Required votes for the bill achieved	12-Jul-10	0.058	1.306 [0.194]	1.505 [0.171]	0.577 [0.516]	0.665 [0.395]	-3.327	-8.790 [0.171]	-8.930 [0.143]	-3.371 [0.346]	0.304 [0.946]
Dodd-Frank Act signed by Obama	21-Jul-10	-0.918	0.130 [0.908]	0.228 [0.833]	1.638* [0.057]	0.164 [0.828]	-0.935	-0.087 [0.989]	-0.012 [0.982]	-0.262 [0.963]	0.567 [0.898]

Notes: The table shows the results from SUR regressions corresponding to the subevents for stock returns and CDS spreads, respectively, using estimation windows of 80 or 140 trading days. Each system of regressions includes 10 banks. All subevents refer to frontpage articles in the Financial Times, U.S. edition. The number of observations ranges between 800 (corresponding to an estimation window of 80 days) and 1400 (140 trading days). All estimations are using balanced samples. If the estimation window contains another subevent, this is "dummied out" by including the corresponding event dummies (including pre- and post-event dummies). Through an iteration procedure, we make sure that all estimation windows contain exactly the given number of observations (not including other events). The regressions in the left panel use daily stock returns of banks as dependent variable (in percentage points), those in the right panel use daily first differences in bank CDS spreads (in basis points). The first number column in each panel displays the unadjusted average return of all banks within the sample at the respective event day. "Average Abnormal Returns" refer to the average abnormal return of all banks at the respective event day. The Column "Investment vs. Commercial" shows the difference in abnormal returns of investment banks and commercial banks. The splitting is based on customer deposits as a share of total assets and non-interest income as a share of total revenue. The column "Systemic vs. Non-Systemic" displays the difference in abnormal returns of systemically relevant and non-systemically relevant banks. The latter selection is based on the list of 29 systemically relevant institutions, published by the Financial Stability Board on 4th November 2011. The tests for heterogeneity are conducted on the basis of an 80 trading days estimation window. The p-values in brackets correspond to the tests whether the average abnormal returns and the difference in abnormal returns between the two given bank groups is equal to zero. All regressions include pre-event dummies in order to account for anticipation effects. The results for an enlarged event window of two days are displayed only if the average cumulated abnormal returns are statistically significant. Stars are to be interpreted as follows: *** significant at 1 percent, ** significant at 5 percent, * significant at 10 percent.

A.3. Abnormal Returns in the United Kingdom (The Vickers Reform Proposals)

P-values in brackets; dependent variable: daily bank stock return (left panel) and first difference in CDS spreads (right panel)

Estimation window	Date	Stock Returns					CDS Spreads				
		80	140	80	80	80	140	80	80		
		Average Return	Average Abnormal Return	Average Abnormal Return	Investment vs. Commercial	Systemic vs. Non-Systemic	Average Return	Average Abnormal Return	Average Abnormal Return	Investment vs. Commercial	Systemic vs. Non-Systemic
The Vickers Reform Proposals											
- Anticipatory effect [-1]	20-Jan-10	-2.185	-2.255	-2.546	0.021	1.526	5.786	5.748***	6.142**	0.254	-1.803
			[0.285]	[0.237]	[0.990]	[0.372]		[0.005]	[0.019]	[0.884]	[0.430]
Spillover effect: Announcement of the Volcker Rule	21-Jan-10	-5.010	-4.801**	-5.141**	-2.246	0.527	1.978	1.940	2.334	0.842	2.349
			[0.022]	[0.016]	[0.202]	[0.757]		[0.344]	[0.372]	[0.628]	[0.304]
Appointing the Vickers Commission	16-Jun-10	0.667	0.383	0.349	-0.015	-1.321	3.544	3.212	3.134	0.456	4.238
			[0.875]	[0.878]	[0.991]	[0.403]		[0.656]	[0.571]	[0.930]	[0.567]
Spillover effect: Consensus between parties - the dilution -	25-Jun-10	-0.961	-1.363	-1.362	1.175	-3.489**	2.132	2.017	1.823	2.825	2.678
			[0.558]	[0.539]	[0.202]	[0.021]		[0.766]	[0.734]	[0.566]	[0.700]
- Anticipatory effect [-1]	04-Aug-10	-0.453	-0.619	-0.813	0.056	5.939***	-0.800	-0.955	-0.084	-2.004	1.601
			[0.809]	[0.722]	[0.971]	[0.000]		[0.894]	[0.880]	[0.705]	[0.830]
Barclays warns to leave U.K. in case of a bank break-up	05-Aug-10	-0.669	-0.833	-1.025	-3.004**	-0.668	4.150	3.995	4.056	4.571	5.239
			[0.745]	[0.654]	[0.048]	[0.658]		[0.576]	[0.495]	[0.388]	[0.483]
Vickers tends to split up big banks	18-Jan-11	0.743	0.801	0.703	0.351	-0.888	-3.310	-3.451	-3.066	-0.263	-4.454
			[0.588]	[0.675]	[0.769]	[0.545]		[0.292]	[0.313]	[0.889]	[0.157]
Big banks filed petitions for not splitting up banks	26-Jan-11	-1.011	-0.660	-1.292	-1.802	-1.690	-0.601	-0.567	-0.336	4.271**	5.386*
			[0.680]	[0.466]	[0.180]	[0.297]		[0.858]	[0.915]	[0.023]	[0.080]
Osborne backs higher capital requirements for banks	06-Mar-11	-0.836	-1.094	-1.112	0.164	-0.258	2.254	2.042	2.260	1.108	2.070
			[0.424]	[0.434]	[0.895]	[0.857]		[0.508]	[0.437]	[0.590]	[0.505]
Senior Whitehall officials push for peace deal with banks	30-Mar-11	-0.838	-0.877	-0.939	-0.985	-1.659	1.515	1.428	1.565	1.235	0.009
			[0.507]	[0.484]	[0.390]	[0.218]		[0.568]	[0.599]	[0.558]	[0.998]
Osborne welcomes banks reforms	08-Apr-11	0.460	0.447	0.006	0.552	-0.195	-3.319	-2.895	-3.174	-1.952	-2.943
			[0.741]	[0.673]	[0.646]	[0.892]		[0.387]	[0.307]	[0.396]	[0.424]
Equity requirements proposal (better than expected)	11-Apr-11	0.799	0.621	0.594	2.693**	1.827	-1.415	-1.255	-1.221	-0.329	-0.945
			[0.632]	[0.659]	[0.014]	[0.177]		[0.703]	[0.684]	[0.875]	[0.771]
Fear that foreign banks take advantage of tough UK regulation	17-Apr-11	-2.231	-0.425	-0.444	-1.450	-1.037	9.109	9.431***	9.312***	4.625**	3.408
			[0.741]	[0.740]	[0.180]	[0.438]		[0.003]	[0.002]	[0.024]	[0.291]
Osborne's pre-approval of the ringfencing approach	15-Jun-11	-1.743	-1.600	-1.667	-0.943	-0.630	4.391	4.248*	4.251	1.320	3.652
			[0.144]	[0.189]	[0.279]	[0.587]		[0.085]	[0.138]	[0.477]	[0.105]
- Anticipatory effect [-1]	30-Aug-11	6.200	6.773*	6.555***	2.140	2.789	0.864	-0.503	0.228	-2.259	-2.699
			[0.06]	[0.001]	[0.186]	[0.133]		[0.916]	[0.954]	[0.434]	[0.402]
Postponement of the reform to 2015 (post-election period)	31-Aug-11	3.164	-3.983	3.766*	0.317	1.005	-8.649	-10.011**	-9.286**	-8.07***	-5.32*
			[0.110]	[0.055]	[0.847]	[0.594]		[0.036]	[0.019]	[0.005]	[0.099]
- Enlarged event window [0-1]		7.366	8.972**	8.538***	5.408**	5.879**	-14.991	-17.73***	-16.27***	-14.246***	-9.069**
			[0.013]	[0.002]	[0.022]	[0.030]		[0.009]	[0.004]	[0.001]	[0.046]
- Anticipatory effect [-1]	09-Sep-11	-5.541	-4.941**	-5.161***	-3.814*	-1.719	11.557	10.157**	10.873***	-1.602	1.260
			[0.045]	[0.009]	[0.057]	[0.342]		[0.033]	[0.006]	[0.575]	[0.690]
Publication of the Vickers Report	12-Sep-11	-1.547	-1.120	-1.369	-0.317	-2.756	15.138	13.738***	14.455***	2.493	5.633*
			[0.657]	[0.495]	[0.847]	[0.138]		[0.004]	[0.000]	[0.382]	[0.075]

Notes: The table shows the results from SUR regressions corresponding to the subevents for stock returns and CDS spreads, respectively, using estimation windows of 80 or 140 trading days. Each system of regressions includes 5 banks. All subevents refer to frontpage articles in the Financial Times, U.K. edition. The number of observations ranges between 400 (corresponding to an estimation window of 80 days) and 700 (140 trading days). All estimations are using balanced samples. If the estimation window contains another subevent, this is "dummied out" by including the corresponding event dummies (including pre- and post-event dummies). Through an iteration procedure, we make sure that all estimation windows contain exactly the given number of observations (not including other events). The regressions in the left panel use daily stock returns of banks as dependent variable (in percentage points), those in the right panel use daily first differences in bank CDS spreads (in basis points). The first number column in each panel displays the unadjusted average return of all banks within the sample at the respective event day. "Average Abnormal Returns" refer to the average abnormal return of all banks at the respective event day. The Column "Investment vs. Commercial" shows the difference in abnormal returns of investment banks and commercial banks. The splitting is based on customer deposits as a share of total assets and non-interest income as a share of total revenue. The column "Systemic vs. Non-Systemic" displays the difference in abnormal returns of systemically relevant and non-systemically relevant banks. The latter selection is based on the list of 29 systemically relevant institutions, published by the Financial Stability Board on 4th November 2011. The tests for heterogeneity are conducted on the basis of an 80 trading days estimation window. The p-values in brackets correspond to the tests whether the average abnormal returns and the difference in abnormal returns between the two given bank groups is equal to zero. All regressions include pre-event dummies in order to account for anticipation effects. The results for an enlarged event window of two days are displayed only if the average cumulated abnormal returns are statistically significant. Stars are to be interpreted as follows: *** significant at 1 percent, ** significant at 5 percent, * significant at 10 percent.

A.4. Abnormal Returns in Germany (Bank Tax and Restructuring-Law)

P-Values in brackets; dependent variable: daily bank stock return (left panel) and first difference in CDS spreads (right panel)

Estimation window	Date	Stock Returns				CDS Spreads			
		80	140	80	80	140	80	140	80
		Average Return	Average Abnormal Return	Average Abnormal Return	Systemic vs. Non-Systemic	Average Return	Average Abnormal Return	Average Abnormal Return	Systemic vs. Non-Systemic
Bank Tax and Restructuring-Law	08-Mar-10	-0.733	-0.661	-1.004	0.799	-4.234	-4.080	-3.880	3.416
Constitutional experts: A Bank Tax is juridical feasible			[0.740]	[0.670]	[0.579]		[0.101]	[0.163]	[0.238]
Governing coalition urges for Bank Tax	21-Mar-10	-0.613	-0.436	-0.704	0.929	3.736	3.594	4.124	0.769
			[0.824]	[0.763]	[0.515]		[0.149]	[0.120]	[0.756]
Key points for Bank Tax and Restructuring-Law agreed by the cabinet	31-Mar-10	-0.100	-0.102	-0.253	-1.476	2.350	2.309	2.462	4.775**
			[0.954]	[0.913]	[0.294]		[0.266]	[0.212]	[0.014]
Bank Tax and Restructuring-Law passed by the federal cabinet	25-Aug-10	-1.585	-1.524	-1.596	-0.533	2.830	2.588	2.640	-1.777
			[0.392]	[0.348]	[0.687]		[0.704]	[0.628]	[0.671]
Threat to call the mediation committee - one state blocks the bill	19-Nov-10	-0.022	-0.135	0.007	-2.148	3.510	3.572	3.431	-2.175
			[0.908]	[0.996]	[0.157]		[0.384]	[0.560]	[0.664]

Notes: The table shows the results from SUR regressions corresponding to the subevents for stock returns and CDS spreads, respectively, using estimation windows of 80 or 140 trading days. Each system of regressions includes 5 banks. All subevents refer to frontpage articles, either in the in the Financial Times Deutschland, (FTD) or the Börsenzeitung. The number of observations ranges between 400 (corresponding to an estimation window of 80 days) and 700 (140 trading days). All estimations are using balanced samples. If the estimation window contains another subevent, this is "dummied out" by including the corresponding event dummies (including pre- and post-event dummies). Through an iteration procedure, we make sure that all estimation windows contain exactly the given number of observations (not including other events). The regressions in the left panel use daily stock returns of banks as dependent variable (in percentage points), those in the right panel use daily first differences in bank CDS spreads (in basis points). The first number column in each panel displays the unadjusted average return of all banks within the sample at the respective event day. "Average Abnormal Returns" refer to the average abnormal return of all banks at the respective event day. The column "Systemic vs. Non-Systemic" displays the difference in abnormal returns of systemically relevant and non-systemically relevant banks. The selection is based on the list of 29 systemically relevant institutions, published by the Financial Stability Board on 4th November 2011. The tests for heterogeneity are conducted on the basis of an 80 trading days estimation window. The p-values in brackets correspond to the tests whether the average abnormal returns and the difference in abnormal returns between the two given bank groups is equal to zero. All regressions include pre-event dummies in order to account for anticipation effects. The results for an enlarged event window of two days are displayed only if the average cumulated abnormal returns are statistically significant. Stars are to be interpreted as follows: *** significant at 1 percent, ** significant at 5 percent, * significant at 10 percent.

A.5. Abnormal Returns in Switzerland (Too-Big-To-Fail-Regulation)

P-values in brackets; dependent variable: daily bank stock return (left panel) and first difference in CDS spreads (right panel)

Estimation window	Date	Stock Returns				CDS Spreads		
		Average Return	Average abnormal Return	Average abnormal Return	Systemic vs. Non-Systemic	Average Return	Average abnormal Return	Average abnormal Return
- Anticipatory effect [-1]	03-Nov-09	-0.013	-1.884**	-1.893*	-3.209*	n.a.	n.a.	n.a.
Appointment of the too-big-to-fail-comission	04-Nov-09	1.601	1.242	1.253	0.741			
Spillover-Effect: Announcement of the Volcker Rule	21-Jan-10	-0.333	-1.346**	-1.494*	-4.54***	1.255	1.665	2.176
Financial Market Supervision (FINMA) claims law on large banks	23-Mar-10	-0.033	-0.566	-0.679	1.113	-2.849	-2.949	-2.669
- Anticipatory effect [-1]	21-Apr-10		0.182	0.046	-1.221	8.670	8.994***	8.953***
Press conference on preliminary too-big-to-fail-report	22-Apr-10	-1.199	-0.959	-1.087	-2.067	9.953	9.994***	9.953***
- Enlarged event window [0-1]		-0.204	0.036	-0.192	-0.142	4.623	9.487**	9.406**
Big banks need more capital according to Basel III	07-Sep-10	-0.825	-1.018	-1.304	-1.102	2.790	3.593	3.007
Basel III comitte sets the equity requirements	13-Sep-10	0.463	0.353	0.272	1.617	-3.370	-1.512	-3.493
Press conference - presenting the final report	04-Oct-10	-0.693	-0.390	-0.397	1.206	-3.220	-3.550	-3.511
Swiss federal council adopts draft of law for large banks	21-Dec-10	0.505	0.202	0.220	1.055	0.815	1.441	1.029
Disagreement about application of equity requirements	04-Apr-11	-0.720	-0.055	-0.022	-0.065	-2.287	-2.500	-2.629
Large banks welcome new rules	15-Jun-11	-1.029	-0.306	-0.296	-1.112	-0.132	-2.765	-2.722

Notes: The table shows the results from SUR regressions corresponding to the subevents for stock returns and CDS spreads, respectively, using estimation windows of 80 or 140 trading days. All subevents refer to frontpage articles in Neue Zürcher Zeitung (NZZ). In case of stock returns each system of regressions includes 8 banks. The number of observations for stock returns ranges between 640 (corresponding to an estimation window of 80 days) and 1120 (140 trading days). In case of CDS spreads each system of regressions includes 2 banks for reasons of availability. The number of observations for CDS spreads ranges between 160 (corresponding to an estimation window of 80 days) and 280 (140 trading days). If the estimation window contains another subevent, this is "dummied out" by including the corresponding event dummies (including pre- and post-event dummies). Through an iteration procedure, we make sure that all estimation windows contain exactly the given number of observations (not including other events). The regressions in the left panel use daily stock returns of banks as dependent variable (in percentage points), those in the right panel use daily first differences in bank CDS spreads (in basis points). The first number column in each panel displays the unadjusted average return of all banks within the sample at the respective event day. "Average Abnormal Returns" refer to the average abnormal return of all banks at the respective event day. The column "Systemic vs. Non-Systemic" displays the difference in abnormal returns of systemically relevant and non-systemically relevant banks. The latter selection is based on the list of 29 systemically relevant institutions, published by the Financial Stability Board on 4th November 2011. The tests for heterogeneity are conducted on the basis of an 80 trading days estimation window. The p-values in brackets correspond to the tests whether the average abnormal returns and the difference in abnormal returns between the two given bank groups is equal to zero. All regressions include pre-event dummies in order to account for anticipation effects. The results for an enlarged event window of two days are displayed only if the average cumulated abnormal returns are statistically significant. Stars are to be interpreted as follows: *** significant at 1 percent, ** significant at 5 percent, * significant at 10 percent.