# **Bank Regulations Are Changing: For Better or Worse?**

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**Abstract:** This paper presents new and official survey information on bank regulations in 142 countries and makes comparisons with two earlier surveys. The data do not suggest that countries have primarily reformed their bank regulations for the better over the last decade. Following Basel guidelines many countries strengthened capital regulations and official supervisory agencies, but existing evidence suggests that these reforms will not improve bank stability or efficiency. While some countries have empowered private monitoring of banks, consistent with the third pillar of Basel II, there are many exceptions and reversals along this dimension.

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#### I. Introduction

Is the bank regulatory environment in countries improving and making financial systems more efficient and stable? A decade after the East Asian crisis and the ever growing importance of developing-country-banking systems, the extent to which progress has been made in regulatory reform commands our attention for several reasons. Those concerned with the fragility of financial systems, whether from a social welfare or a narrower investor's perspective, want to know if developing country's financial systems are safer now than in the 1990s, or whether they merely appear safer as a result of the recent generous inflows of foreign capital. Furthermore, those formulating financial-sector policy recommendations, including the World Bank (Bank) and the International Monetary Fund (IMF), want to know what to do next in improving the efficacy of financial systems, which presumably necessitates an understanding of what has been accomplished thus far. Indeed, in 1999 the Bank and the IMF started the Financial Sector Assessment Program (FSAP) to assess systematically the status of financial systems in countries and to make recommendations for reform, including in the area of bank regulation. As a result, Bank and Fund officials, among others, want to know the extent to which recommendations were adopted and whether the reforms were beneficial.

Many seem to know what has happened to bank regulatory reforms in countries and to have drawn optimistic conclusions about recent changes – perhaps though with some rethinking taking place after the turbulence in credit markets that began in the summer of 2007. After all, investors in recent years have been putting their money into emerging market economies at very narrow interest rate spreads. Also, Martin Wolf commented that '...there have been substantial structural improvements in Asian economies, notably in the capitalization and regulation of financial systems' (Financial Times, May 23, 2007). Still others believe that bank regulation and

supervision are now sufficiently effective to warrant more aggressive capital account liberalization. For example, Ken Rogoff (2007) recently suggested that while IMF recommendations in the 1990s to liberalize more fully capital account transactions might have been premature, now is the time for the IMF, still searching for a new direction for itself, to resume this effort.

Yet, do we actually know what has happened to banking policies in recent years and is there any evidence regarding the consequences of the actions that have been taken? Have changes in the bank regulatory environment enhanced the creditworthiness of developing countries? Is bank regulation so much better now that one should not expect crises to follow from greater capital account liberalization? In addition to these important questions about the stability of financial systems, policy makers are also concerned about other features of their financial systems. Will the bank regulatory framework prescribed by the Basel Committee on Bank Supervision increase access to financial services? Have changes in regulation contributed to financial-sector development and the allocation of capital by banks to those firms most likely to promote growth and reduce poverty? And what about the efficiency of banks, or their corporate governance, and corruption in the lending process itself? These questions regarding the recent changes in the regulatory environment their effects represent a natural area of inquiry.

More than ten years ago, a similar set of questions motivated us to start assembling the first cross-country database on bank regulation and supervision. Based on guidance from bank supervisors, financial economists, and our own experiences, we began putting together an extensive survey of bank regulation and supervision. The original survey, Survey I, had 117

<sup>1</sup> As in Barth, Caprio, and Levine (2006), we sometimes use the term regulation generically to apply to banking-sector policies and compliance mechanisms, while at other times to discuss particular, specific regulations or special aspects of supervision.

country respondents between 1998 and 2000. The first update in 2003, Survey II, characterized the regulatory situation at the end of 2002, and had 152 respondents. Survey III was posted at the Bank website in the summer of 2007 with responses from 142 countries. Survey III is special because barring a postponement in Europe on par with that in the United States, it represents the last look at the world before many countries formally begin implementing Basel II, the revised Capital Accord.

This paper is structured as follows. Section II will very briefly review the structure of the survey and discuss some issues that arise in the responses to the three surveys. Next, Section III looks at the state of bank regulation around the world in 2006, and importantly how it has changed in the last 10 years. Section IV then turns to a first analysis of the data, asking whether the changes in bank regulation are contributing positively to financial sector development (and thus we hope to the wider availability of financial services) and to the stability of banking systems around the world. Section V concludes with lessons for Basel II, and for countries that are grappling with a response to it.

Based on our empirical analysis of what works best in bank regulation (BCL, 2006) and the subsequent changes that have taken place since the late 1990s in the regulatory environment, we see no basis for the view that countries around the world have primarily reformed for the better. While many have followed the Basel guidelines and strengthened capital regulations and empowered supervisory agencies to a greater degree, existing evidence does not suggest that this will improve banking-system stability, enhance the efficiency of intermediation, or reduce corruption in lending. While some countries have reformed their regulations to empower private monitoring, consistent with the third pillar of Basel II, there are many exceptions and even reversals along this dimension. Moreover, many countries intensified restrictions on non-

lending activities, which existing evidence suggests hurts banking system stability, lowers bank development, and reduces the efficiency of financial intermediation. Indeed, our simulations discussed below will advertise two countries in this regard.

Our tempered advice continues to be that countries will benefit from an approach to bank regulation that is grounded in what has worked in practice. In our earlier work, we found that an approach that favors private monitoring, limits moral hazard, removes activity restrictions on banks, encourages competition, including competition by foreign banks, and requires or encourages greater diversification appears to work best to foster more stable, more efficient, and less corrupt financial-sector development. Our earlier findings did not support a hurried adoption of the first two pillars of Basel II by developing countries, but rather stressed the value of first developing the legal, information, and incentive systems in which financial systems flourish to the benefit of everyone. Based on the existing evidence, we continue to believe that this approach is the most sensible one for country authorities to pursue. Critically, the data in this new survey provide the raw material for research that should help confirm, refute, or refine this private-monitoring view.

#### II. The 2006 Survey

The Survey of Bank Regulation and Supervision Around the World assembles and makes available a database to permit international comparisons of various features of the bank regulatory environment. The Annex lists the questions as they appear in the current survey, previous surveys and responses are on the World Bank website and the CD in BCL (2006).<sup>2</sup> In the Annex, the questions that are new to Survey III are shown in bold. The initial survey in 1998-

<sup>2</sup>http://econ.worldbank.org/WBSITE/EXTERNAL/EXTDEC/EXTRESEARCH/0,,contentMDK:2034503 7~pagePK:64214825~piPK:64214943~theSitePK:469382,00.html.

99 was composed of about 180 questions, and was substantially expanded to approximately 275 questions in 2002. Changes to the current survey were more limited, with many aimed at achieving greater clarity and precision, and others made in anticipation of Basel II. Although the current version has over 300 questions, much of the expansion was in the form of making explicit separate categories for responses or otherwise clarifying issues. Most questions could be answered "Yes/No" though in many cases we requested that in case of doubt the authorities attach governing regulations or laws. Some of these explicitly or implicitly refer to Basel II, such as those enquiring as to the plans for the implementation of Basel II, and if so then the variant of the first pillar to be adopted. Similarly, some of the questions relating to capital, provisioning, and supervision have been modified to keep abreast of current thinking and emerging practice in these areas.

We will not go into detail about the survey here given the earlier explanations provided in BCL (2006, 2004, and 2001). The latest survey continues to group the survey questions and responses into the same twelve sections as previously, namely,

- Entry into banking
- Ownership
- Capital
- Activities
- External auditing requirements
- Internal management/organizational requirements
- Liquidity and diversification requirements
- Depositor (savings) protection schemes
- Provisioning requirements
- Accounting/information disclosure requirements
- Discipline/problem institutions/exit, and
- Supervision.

Also, as is evident in the survey, the majority of questions are structured to be in a yes/no format, or otherwise require a precise, often quantitative, response. Experience suggests that simple and precise questions increase the response rate and reduce the potential for misinterpretation.

With the third survey, we now have data spanning almost a decade, as the first responses to the initial survey were recorded in 1998. Since Survey I was the initial launch of the survey, and as internet penetration in a number of developing countries was still on the increase, many of the responses came in gradually during 1998-99, but a number of them were received in 2000 as The second survey (Survey II) was conducted in early 2003, assessing the state of regulation as of the end of 2002. Survey III, the latest update, sought a characterization of the environment as of the end of 2005. However, although it took at least 6-9 months to clean the data, which involved going back to country authorities for clarifications, technical problems at the World Bank website further delayed the processing of Survey III, so that the exercise was only completed in early July of 2007. Thus it is perhaps accurate to interpret the responses from this survey as describing the situation in 2006. We have noted in past work that the individual responses in the survey likely are of interest in their own right, especially for authorities who want to compare particular features of their own banking systems with those in other countries. For example, we can readily tell that in 2006, 108 of the 142 countries that replied to Survey III responded that they intended to adopt Basel II, though not all of the countries in this group were prepared to tell which of the approaches (standardized, foundation IRB, or advanced IRB) they planned to adopt. Notwithstanding interest in individual responses, it is difficult to extract lessons from so many responses. Yet policy makers want to know the general direction in which to proceed with reforms (e.g., whether to emphasize bank activity restrictions, capital

requirements, bank supervision, or private monitoring) to improve banking systems. Consequently, this group will appreciate a greater degree of grouping and aggregation (and thus quantification) of the responses, as will empirical researchers bound by degrees of freedom (and a need for quantifiable variables). So we follow our earlier practice (BCL 2006, 2004, and 2001) and aggregate the data into broader indices, the principal ones being: Overall Restrictions (on bank activities), Entry Requirements, Official Supervisory Powers, Private Monitoring, and Capital Regulation. As in the past, we stress that there is no unique grouping or aggregation (or even quantification), and we still encourage researchers to experiment with their own groupings.<sup>3</sup>

Before turning to the data, an obvious question concerns the accuracy of the responses. The survey was sent to the principal contacts in each country of the Basel Committee on Bank Supervision. Even though these contacts should know the regulatory environment, the survey's scope is such that for any country a number of people usually are involved in its completion, and some or all of the members of this group might change over time, raising the issue of differences in the interpretation of questions over time (in addition to changes in the wording noted above). In order to attain the greatest possible consistency over time, we adopted several approaches: going back to authorities for clarification, where there were notable changes, as well as posting the survey responses on the web, so that the data could be challenged and inconsistencies resolved.

We also searched for instances in which there was a reversal in a country's response to a question across the different surveys, e.g., if a component of an index rose from Surveys I to II

<sup>3</sup> See BCL (2006) for the description of the indices, and the caveat on their arbitrary nature. For example, we include the Certified Audit Required variable, which measures whether an external audit by a licensed or certified auditor is required of banks, in the index of Private Monitoring. Yet, in the countries in which this is a requirement imposed by supervisors, one could instead include this variable in an index of supervision.

and then declined from Survey II to Survey III, or vice versa. Such a change could, though need not, be due to an error in reporting, or possibly a difference in interpretation due to a change in the person or persons replying on behalf of the regulatory agency. With the exception of some of the components of the index on the overall restrictiveness of bank activities, where mostly small reversals occurred in about 20% of the cases, few reversals were seen in the other components. The full results of this analysis are reported in Tables 2-6. Again, these reversals are not necessarily an indication of errors, particularly for those questions that require a simple yes or no answer. However, these cases might merit further checking.

Another way to insure accuracy is through the publication of the results. Surveys I and II have been posted since 2000 and 2004, respectively, so one would assume that authorities, especially after prompting from the Bank, would have reported errors by now. Yet each survey had only a handful of countries questioning an individual response, notwithstanding that each survey has been posted for a number of years. Survey III was just posted in July 2007.

To summarize, despite investing significant effort in cleaning the data, we did not always receive clear responses from the authorities and are concerned that they suffer from survey fatigue. We therefore recommend ongoing efforts to clean (and update) the data. It might also be noted that some countries chose not to respond to any surveys, not to respond to some surveys but to others, and not to answer some questions but others, which raises the question as to whether this was a strategic decision or simply survey fatigue.

#### III. Bank Regulation and Supervision Around the World: What the Data Say

With three surveys over almost a decade, one can ask to what extent have there been changes in the regulatory environment in countries around the world. As Survey III is just becoming available, analysis of these changes understandably is in an early stage, and we hope that with the data available on the web, more people will investigate the impact of variations in bank regulation on various outcomes. Also, in principle this analysis can be done for all of the individual questions and countries that are available over the surveys. Here we restrict our attention to the major indices that we highlighted in BCL (2006). As noted, that focus was motivated by the view that country authorities were interested in the strategy that they should take in reforming their financial systems, a view that we continue to hold. As also noted and reemphasized above, others may identify more appropriate ways of constructing indices based on particular questions or circumstances.

Figure 1 shows the changes in overall restrictiveness of bank activities. Although it would be possible to compute a single score by adding up or taking the average degree of restrictiveness in each country, it is not clear how to interpret such a number. One could weight all countries equally, or by their share in world GDP or world banking assets, and likely get different results. Figure 1 shows the countries for which we were able to make comparisons on restrictiveness in Surveys I and III, and since a change in a positive direction indicates a move toward greater restrictiveness, it appears as though restrictions on what banks can do are on the increase. We highlight in black 3 large, high-income countries, namely Japan, the United Kingdom and the United States, as well as 7 countries whose banking crises for different reasons were the focus of attention in the 1990s: Argentina, Indonesia, Korea, Malaysia, Mexico, Philippines, and Russia. The contrast between two crisis countries is of interest. In particular, Mexico responded to the 1994 crisis by easing restrictions on banks, while Argentina saw tightened restrictions and policies that led foreign banks to withdraw. Most other crisis countries also moved in the direction of greater restrictions. The U.S. moved in the opposite direction

reflects the dismantling of the Glass-Steagall barriers separating commercial banking, investment banking, and insurance.

Domestic bank entry requirements (Figure 2) mostly remained unchanged, though there was some tightening in crisis countries, as well as in the U.S. case. Note that this index essentially counts the number of requirements for a banking license: (1) Draft by-laws; (2) Intended organizational chart; (3) Financial projections for first three years; (4) Financial information on main potential shareholders; (5) Background/experience of future directors; (6) Background/experience of future managers; (7) Sources of funds to be used to capitalize the new bank; and (8) Market differentiation intended for the new bank. Thus this index is a proxy for the hurdles that entrants have to overcome to get a license. However, the absence of changes does not necessarily imply that the banking sector was not undergoing significant change, as foreign entry was expanding sharply in a number of countries.

In the original survey, we did not have a separate question for the ease of foreign entry, as this was captured in a parallel survey by the U.S. Office of the Comptroller of the Currency, and is not directly comparable to the question on foreign entry in the current survey. However, as seen in Figure 2a, we did collect information on the percentage of assets in majority-owned foreign banks, and here the changes have been dramatic. In the aftermath of their crises, foreign presence rose significantly in Mexico, Korea, and Indonesia, barely changed in Malaysia, the Philippines, and Russia, and fell significantly in Argentina. Some countries rely on foreign entities either to take over insolvent banks and/or to expand their intermediation activities while insolvent banks are restructured, downsized or closed, similar to the way Texas first permitted banks from outside its state to take over its banking system during the crisis in the 1980s.

Others, like Argentina, foisted such a large share of the costs of the crisis on already present foreign banks that some left and some potential entrants surely stayed away.

Figures 3, 4, and 5 show the changes in the three pillars of Basel II, namely Capital Regulation, Official Supervisory Power, and Private Monitoring, respectively. Interestingly, those countries easing capital requirements are only slightly less numerous than those moving in the opposite direction. Once again, Argentina stands out, with the weakening in its capital requirements having been part of the effort to ease regulation in advance of the crisis, with Korea and Japan making similar moves but in the aftermath of their crises. Argentina did not change its official supervisory power, though it should be noted that any weakening in the exercise of these powers is not measured here. There is a more noticeable balance of countries moving to strengthen official supervision, or at least provide supervisors with more explicit power, notably in Korea, Mexico, Malaysia, and to some degree in Russia. Unfortunately, as we will return to below, an increase in supervisory power was not found to be helpful in bank development, performance, and stability in our earlier work (BCL 2006), particularly in countries with a weak institutional environment, and actually was associated with increased corruption in the lending process.4 Interestingly, the U.K. authorities moved in the opposite direction, and have established a working group, whose report is due shortly, to address concerns about excessive regulation and supervision.

Private Monitoring, a proxy for the third pillar of Basel II, has been found to be positively linked with a number of desirable outcomes in the banking sector, and appears generally to be on the rise in a number of countries, with Mexico once again in the lead. Only a few countries,

<sup>&</sup>lt;sup>4</sup> This is based on a survey of bank borrowers on the extent to which they had to pay a bribe to get a bank loan. Since in this effort we controlled for economy-wide corruption, it is not the case that our results reflect countries stepping up supervision in response to greater corruption.

notably including the United Kingdom, Malaysia, and Korea, have seen a decline in their score on this index.

As with all of these changes, we examined the changes in the individual components of the indices to identify which factors account for the variations in the indices. Thus in the U.K. case, private monitoring weakened slightly because of the change to an affirmative in the response to the question, "Does accrued, though unpaid interest/ principal enter the income statement while the loan is still non-performing? Here the rationale is that allowing accrued but unpaid interest for a non-performing loan makes it more difficult for market participants to perceive the underlying health of a bank. Readers are welcome to investigate the sources of other changes with these tables, using the data on the World Bank's website, noted above.

We will now turn our attention to a more systematic extension of our earlier research to gauge the impact of the aforementioned changes in the regulatory environment on the development of the banking sector, its fragility, and other outcomes of interest.

# IV. Bank Regulation and Supervision Around the World: What the Data Mean

# IV.A. How reforms affect banking systems: Overview

How have reforms to bank regulations and supervisory practices affected national banking systems? In countries that changed their regulatory policies, have these reforms reduced banking system fragility and boosted banking system development? Have these policy changes enhanced the efficiency of intermediation and moderated corruption in the lending process? Answers to these questions will help some countries adjust their reforms and help other countries avoid mistakes and select more appropriate reform strategies.

Ideally, we would examine how changes in regulatory reforms affect banking-system fragility, development, efficiency, and corruption. This would involve first computing changes in bank regulations for each country, which we documented above in Section III. Second, we would need to compute changes in banking system fragility, development, efficiency, and corruption from the 1999 (Survey I) through 2007 (Survey III). Unfortunately, these data are not yet available. Thus, an examination of how changes in banking regulation affect changes in banking-system characteristics will have to wait until these data are constructed.

In light of these data constraints, we implement an alternative strategy for estimating how bank-regulatory reforms over the last decade influenced national banking systems. We first take the estimates of the relationships between bank regulations and banking-system fragility, development, efficiency, and corruption based on Survey I that we identified in earlier research (BCL, 2006). We then use these estimates to compute the impact of regulatory reforms between Survey I and Survey III on banking-system fragility, development, efficiency, and corruption. We make these computations for each country. One difference between the estimates reported in this paper and our earlier work is that here we now use indexes base on the summation of the

individual questions, rather than computing the principal component of the individual questions underlying the indexes. We do this because it makes it much more transparent to see how changes in an individual question changed the index, and hence the estimated probability of a systemic banking crisis.

### IV.B Baseline regressions

Table 1 presents estimates of the relationships between various bank regulations and banking-system fragility, development, efficiency, and corruption. Since BCL (2006) explain these estimation processes in great detail, we provide a very brief synopsis of that description.<sup>5</sup>

First, consider banking-system fragility, which we measure as a dummy variable that equals one if the country experienced a systemic crisis during the period 1988-1999, and zero if it did not. While inherently arbitrary, we classify a systemic crisis as one where (1) emergency measures were taken to assist the banking system (such as bank holidays, deposit freezes, blanket guarantees to depositors or other bank creditors), or (2) large-scale nationalizations took place, or (3) non-performing assets reached at least 10 percent of total assets at the peak of the crisis, or (4) the cost of the rescue operations was at least 2 percent of GDP. We conduct a logit estimation based on key regulatory variables. Since many studies find that macroeconomic instability induces banking-sector distress, we also include the average inflation rate during the five years prior to the crisis in countries that experienced a banking crisis. In countries that did

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<sup>&</sup>lt;sup>5</sup> Due to poor response quality in Survey III on question 8.3.1, we made a small adjustment to the Private Monitoring Index for conducting the baseline regressions based on Survey I. We do not include 8.3.1 in the private monitoring index for the Table 1 regressions below based on the Survey I indexes. This has little effect on the estimated results.

not, we include the average inflation rate during the five years prior to the survey of bank regulatory and supervisory indicators (1993-1997).

One key finding on fragility is that regulatory restrictions on banking activities (Activity Restrictions) increase banking-system fragility. Many argue that restricting banks from engaging in nonlending services, such as securities market activities, underwriting insurance, owning nonfinancial firms, or participating in real estate transactions, will reduce bank risk taking and therefore increase banking-system stability. We find no support for this claim. Rather, we find that restricting bank activities increases bank fragility. Fewer regulatory restrictions may increase the franchise value of banks and thereby augment incentives for more prudent behavior. Or, banks that engage in a broad array of activities may find it easier to diversify income streams and thereby become more resilient to shocks, with positive implications for banking-system stability.

The second key finding on fragility involves the diversification index, which includes information on whether there are regulatory guidelines concerning loan diversification and the absence of restrictions on making loans abroad. Diversification is negatively associated with the likelihood of a crisis but diversification guidelines have less of a stabilizing effect in bigger economies, as measured by the logarithm of GNP. The inflection point is quite high; diversification guidelines have significant stabilizing effects in all but the nine largest countries.

Second, consider bank corruption, which is measured by asking firms whether corruption of bank officials is an obstacle to firm growth. In particular, a value of one signifies that corruption is an obstacle, while a value of zero means that firms responded that corruption of bank officials is not an obstacle. The survey covers 2,259 firms across 37 countries in our sample. In the regressions, we control for many firm level characteristics besides the bank

regulation indexes. This data allows us to test conflicting theoretical predictions regarding the impact of specific bank supervisory strategies on the extent to which corruption of bank officials impedes the efficient allocation of bank credit. The public interest view holds that a powerful supervisory agency that directly monitors and disciplines banks can enhance the corporate governance of banks, reduce corruption in bank lending, and thereby boost the efficiency with which banks intermediate society's savings. In contrast, the private interest view argues that politicians and supervisors may induce banks to divert the flow of credit to politically connected firms, or banks may "capture" supervisors and induce them to act in the best interests of banks rather than in the best interests of society. This theory suggests that strengthening official supervisory power – in the absence of political and legal institutions that induce politicians and regulator to act in the best interests of society -- may actually reduce the integrity of bank lending with adverse implications on the efficiency of credit allocation.

As shown in Table 1, there are two key findings concerning corruption and bank regulation. First, the results contradict the public interest view, which predicts that powerful supervisory agencies will reduce market failures, with positive implications for the integrity of bank-firm relations. Rather, we observe that Official Supervisory Power never enters the Bank Corruption regressions with a positive and significant coefficient.

Second, the results are broadly consistent with the private interest view. The positive coefficient on Official Supervisory Power is consistent with concerns that governments with powerful supervisors further their own interests by inducing banks to lend to politically-connected firms, so that strengthening official supervision accommodates increased corruption in bank lending. Beck et al. (2006) show that sound political and legal systems reduce the pernicious effects of official supervisory power, but they never find that empowering official

supervisors significantly reduces corruption in lending. Furthermore, Table 1 shows that Private Monitoring enters negatively and significantly, which further supports the private interest view of bank regulation. Firms in countries with stronger private monitoring tend to have less of a need for corrupt ties to obtain bank loans. This is consistent with the assertion that laws that enhance private monitoring will improve corporate governance of banks with positive implications for the integrity of bank-firm relations.

Third, consider bank development, which is measured as the ratio of bank credit to private firms as a share of GDP. Although bank development is an imperfect indicator of banking-system performance, past research shows that this specific bank-development variable is a good predictor of long-run economic growth (Levine, 2006). Thus, we include it our simulations. In these analyses, we also control for the legal origin of each country since Beck et al. (2003) show that legal origin helps explain cross-country differences in bank development. Furthermore, in these simulations we simply use the OLS estimates, though the instrumental variable results produce similar findings.

In terms of bank development, there are two major results reported in Table 1. First and foremost, policies that strengthen the rights of private-sector monitors of banks are associated with higher levels of bank development. Our results on strengthening private-sector monitoring of banks emphasize the importance of regulations that make it easier for private investors to acquire reliable information about banks and exert discipline over banks. This finding underscores Basel II's third pillar. Second, regulatory restrictions on bank activities retard Bank Development. The results do not support the view that financial conglomerates impede governance and hurt the operation of the financial system. These findings are more consistent with the existence of economies of scope in the provision of financial services; though see

Laeven and Levine (2007), who find no evidence of economies of scope in banks that diversify their activities beyond lending.

Finally, consider banking-system efficiency, which we measure as (i) the net interest income margin relative to total assets and (ii) overhead costs relative to total assets for a large cross-section of banks in each country. High net interest margins can signal inefficient intermediation and greater market power that allows banks to charge high margins. High overhead costs can signal unwarranted managerial perquisites and market power that contradict the notions of sound governance of banks and efficient intermediation. To identify the independent relationship between these bank efficiency measures and bank regulations, we control for an array of bank-specific traits, including the bank's market share, its size, the liquidity of its assets, bank equity, and the proportion of income that the bank receives in non-interest bearing assets.

The results again advertise the benefits of regulations that empower private-sector monitoring of banks. Private Monitoring is associated with greater bank efficiency, as measured by lower levels of Net Interest Margin and Overhead Costs. These findings, and those in Demirguc-Kunt, Laeven, and Levine (2004), suggest bank regulatory and supervisory policies that foster private-sector monitoring enhance bank efficiency.

#### IV. C. Simulation mechanics

The simulation mechanics for the bank development and efficiency regressions are straightforward. These are simple linear regressions from the estimated relationships in Table 1:

$$Y = \alpha + \beta X$$

where Y is either bank development, the net interest margin, or overhead costs, X is the matrix of explanatory variables from Survey I listed in Table 1 for each regression,  $\alpha$  and  $\beta$  are the estimated parameters shown in Table 1.

Differencing the above equation yields

$$\Delta Y = \beta \Delta X$$
,

where  $\Delta X$  is the change in the explanatory variables between Survey I and Survey III. Specifically, it is the value in Survey III minus the value in Survey I. This equation then provides the simulated change in Y (bank development, the net interest margin, or overhead costs) resulting from reforms to the regulatory system between Survey I and Survey III, based on the estimated relationships from Survey I reported in Table 1. We assume that the non-regulatory variables remain fixed and therefore only focus on estimating the effects of the change in regulatory policies on the banking system. We provide the estimated effects of regulatory reforms for each country in the survey that was (i) included in the Table 1 regressions and (ii) has complete data for Survey III.

The simulation mechanics are bit more involved for the logit regressions because this is a nonlinear estimator. In our case, P equals the probability that the country suffers a systemic crisis (or the probability that a firm responds that corrupt bank officials are an impediment to its growth). Then, in Table 1, we estimate the following equation:

Logit (P) = 
$$\alpha + \beta X$$
.

In order to compute the estimated change in the probability of a crisis resulting from a change in a particular index  $x_k$  within the full matrix of explanatory variables X, we cannot simply use the estimated  $\beta_k$  for that particular index. The coefficients from the logit model have to be rescaled in order to illustrate the marginal effect on the probability of a crisis. This

rescaling must account for the initial conditions for each country. In order to compute country-specific marginal effects on a particular regulatory variable  $x_k$ , therefore, we apply the standard formula for each country in the sample:

$$\frac{\partial P_i}{\partial x_k} = \frac{\exp(X'\beta)}{(1 + \exp(X'\beta))^2} \cdot \beta_k$$

The ratio on the right-hand-side of the equation is a country-specific scale effect. For this scale effect, we use the initial reported valued from Survey I. Thus, we are assessing the estimated impact on the probability of a crisis from changes in regulatory policies from Survey I to Survey III based on the initial conditions defined by Survey I. The country-specific marginal effects for the change in a particular index,  $x_k$ , are then obtained by multiplying this scale factor with the estimated logit coefficient,  $\beta_k$ . In this manner, we present the estimated change in the probability of a crisis in each country from the change in each regulatory index from Survey I to Survey III.

There are many serious caveats associated with these simulations. First, we are assuming that the equation defining the relationship between the dependent variables and the regressors has not changed across the different sampling period. Second, we are assuming that the only change in each simulation reported below is that one of the regulatory variables changes, and that the observed changes in the regulatory variables are measured without error. Third, we are assuming that the estimated relations between regulations and various banking-sector outcomes have not changed over the last decade, i.e., the estimated coefficients, the  $\beta$ s, have not changed. Fourth, in the non-linear regressions involving crises and corruption in lending, we are also assuming that changes in the non-bank regulatory variables do not materially affect the computed marginal impact of regulatory changes on the outcome measures. Fifth, these simulations do not assess dynamics. Changes in bank regulations will affect bank development,

corruption in lending, bank efficiency, and banking-system stability over time, not instantaneously. We do not account for this. Given these assumptions, the estimated standard error of simulated forecast for each country is simply:  $[(\Delta X_i)^{2*}\sigma^2(\beta) + \sigma^2(\varepsilon)]^{1/2}$ , where  $\Delta X_i$  is the change in the regulatory indicator in country i,  $\sigma(\beta)$  is the estimate standard error on the parameter  $\beta$ , and  $\sigma(\varepsilon)$  is the standard error of the residual from the initial equation. This accounts for the uncertainty of parameter estimate and the estimated model. In the simulations that follow, only the ten countries with the biggest changes regulatory changes in each simulation have an estimated change in the dependent variable that is more than a standard deviation away from the null hypothesis of no change.

In sum, these simulations are at best an illustrative first evaluation of the data. They do not provide tight inferences about the impact of regulatory changes on the banking system. Future research will need to directly analyze the impact of these regulatory changes using panel procedures that relax the assumptions discussed above.

#### IV.D. How reforms affect banking systems: Illustrative simulations

Given changes in bank regulations around the world over the last decade, this subsection provides estimates of the impact of these changes on national banking systems. For each country, we illustrate the impact of changes in relevant regulatory indexes on (1) banking-system fragility, (2) corruption in lending, (3) bank development, and (4) banking-system efficiency. By "relevant regulatory indexes," we refer to regulatory indexes that enter statistically significantly in Table 1. We present the simulation results for each of these indexes for every county in the sample. We emphasize that these simulations are subject to the many qualifications regarding

<sup>&</sup>lt;sup>6</sup> The estimated standard error of the simulated forecast is a bit more complex when using the logit estimator because it is nonlinearity.

the underlying estimates presented in Table 1 that are discussed in detail in our book (BCL, 2006). It is difficult to overstress these qualifications. Yet, given all of these qualifications, we use the systematic, consistent estimates provided in Table 1 to illustrate the potential impact of recent regulatory changes on national banking systems. Also, to continue our narrative on ten particular countries, we focus the discussion on Argentina, France, Indonesia, Japan, Korea, Malaysia, the Philippines, Russia, the United Kingdom, and the United States, even though other countries have frequently undertaken the biggest regulatory reforms, which will be illustrated in the figures. Finally, for each regulatory index and for each country, we show which individual regulations changed by documenting changes question-by-question. Thus, readers can readily identify which individual regulatory reforms produce the changes in the indices that we use when conducting the simulations.

# IV.D.1 banking crises

Figures 6 and 7 present the estimated changes in the probability of a crisis for each country resulting from the change in regulatory restrictions on bank activities and diversification from Survey I (1997) to Survey III (2007). In presenting the simulations, we use terms such as "increased fragility" or "enhanced stability" to describe increases or decreases, respectively, in the estimated probability of a systemic banking-system crisis in a particular country. Crucially, we examine the impact of a country's changing bank regulations on the probability of a systemic crisis in that country. We do not examine contagion. Nor do we aggregate regulatory changes across individual countries and weight the resultant fragility effects by the financial importance of each country to derive an estimate of a world financial system crisis. These are valuable extensions. In this paper, we simply build on the admittedly limited estimates conducted by BCL (2006).

By intensifying regulatory restrictions on bank activities, many countries increased banking-system fragility according to our simulations. The simulations suggest that Argentina, Korea, and Russia imposed additional restrictions on bank activities and these reforms will increase the probability of a systemic crisis by between 20 and 40 percent. Other countries relaxed restrictions on bank activities, allowing banks to diversify income flows with positive effects on banking-system stability. According to our estimates, Mexico's reduction in regulatory impediments to banks engaging in non-lending services will have a large stabilizing effect on Mexico's banking system. On a much smaller level, Japan, the U.K. and the U.S. also reduced activity restrictions, with corresponding boosts to stability.

In Figure 7, we turn to diversification guidelines. A large number of countries implemented diversification guidelines with positive ramifications on banking-system stability. Besides Indonesia, Mexico, and Korea, many other countries implemented regulatory reforms that reduced the probability of suffering a systemic crisis by more than 30 percent.

# IV.D.2 corruption in lending

Figures 8 and 9 present the simulation results of changes in official supervisory power and private monitoring on corruption in lending. As discussed above, regulations that empower official supervisors are associated with greater corruption in lending, except in countries with exceptionally high levels of democratic political institutions, while private monitoring reduces corruption in lending by inducing a more transparent banking environment. The simulations provide some stark warnings and encouragement regarding reforms during the last decade.

The simulations suggest that some countries increased the likelihood of corruption of bank officials by increasing official supervisory power and by reducing private monitoring. In particular, Malaysia increased the probability that corrupt bank officials will act as a barrier to

firm growth by boosting the power and discretion of official supervisors. Moreover, Malaysia also enacted regulations that reduced private monitoring, which -- according to our simulations -- will further intensify corruption in lending in these two economies. Taken together, the simulations suggest that the probability that a firm will view the corruption of bank officials as an impediment to firm growth will rise by almost ten percent in Malaysia.

In turn, other countries reduced the likelihood of corruption in lending by adjusting bank regulations to facilitate private monitoring of banks, including Mexico. Mexico is an interesting case. It enacted regulations that both enhanced private monitoring and boosted official supervisory power. According to our estimates, these should exert countervailing effects on corruption in lending within Mexico. Taken together, the simulations suggest that the probability that a firm will view the corruption of bank officials as an impediment to firm growth will fall by about two percent in Mexico. Furthermore, based on information not included in the survey, the strengthening of democratic institutions over the last decade provides some support for the view that the harmful effects of strengthening official supervisory power will be mitigated so that the beneficial effects of stronger private monitoring will be even more dominate in Mexico.

#### IV.D.3 bank development

Two regulatory indexes dominate the relationship with overall banking-system development: Activity Restrictions and Private Monitoring. As illustrated in Figures 10 and 11, Mexico both reformed to boost private monitoring and reformed to reduce activity restrictions. Based on our simulations, these reforms should reinforce each other and boost banking-system development substantially in Mexico. The combined effects are potentially huge. While subject

to ample qualifications, the simulations suggest that banking development in Mexico could rise by as much as 50 percent of GDP due to these two regulatory changes, from an admittedly low level. Korea and Malaysia lie at the other extreme because they made regulatory changes that tend to weaken private monitoring, while also imposing greater restrictions on the activities of banks. According to our estimates, these bank regulatory reforms will lower banking-system development in Korea and Malaysia by about 15 percent of GDP. There are also more mixed, nuanced country cases. The strengthening of private monitoring in Indonesia, Russia, and Argentina will tend to boost bank development. However, these countries also increased regulatory restrictions on banks, which our estimates suggest will counteract the beneficial effects of boosting private monitoring. On net, we forecast little change in bank development in these economies.

## IV.D.4 bank efficiency

Finally, we present the simulation results based on two indictors of bank efficiency. The first measures the net interest margin as a fraction of total interest earning assets and the second measures overhead costs as share of total assets. Since the private monitoring index is the only regulatory indicator that significantly enters both the regression where net interest margin and the regression where overhead costs are the dependent variables, we only run simulations on this regulatory index.

As shown in Figures 12 and 13, Mexico Indonesia, Japan, and Argentina reformed their policies in ways that are likely to enhance banking-system efficiency. In contrast, Korea, Malaysia, and the United Kingdom changed regulations in a manner that is likely to reduce private monitoring, with adverse effects on bank efficiency. For example, the simulations

suggest that interest margins are likely to fall by over one percentage point in Mexico, and rise by over one-half of a percentage point in Korea.

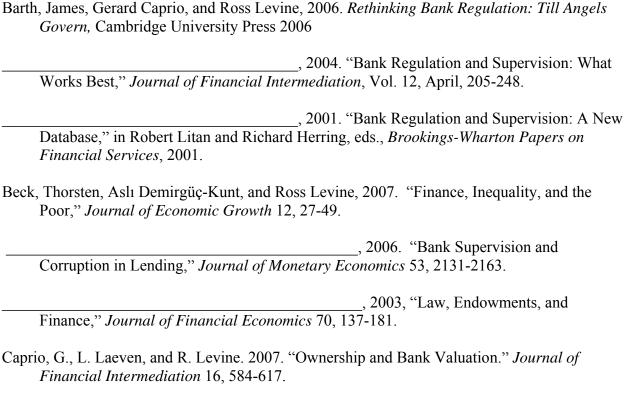
#### V. Conclusions

Over the last ten years, many countries have substantially reformed components of their bank-regulatory regimes. Based on our analyses of the pros and cons of a wide range of bank regulations (BCL, 2006), there is no reason for believing that countries around the world have While many have followed the Basel guidelines and primarily reformed for the better. strengthened capital regulations and empowered supervisory agencies, existing evidence does not suggest that this will improve banking-system stability, enhance the efficiency of intermediation, or reduce corruption in lending. While some countries have reformed their regulations to empower private monitoring, consistent with the third pillar of Basel II, there are many exceptions and reversals along this dimension. Furthermore, many countries intensified restrictions on the non-lending activities, which existing evidence suggests hurts banking-system stability, lowers bank development, and reduces the efficiency of financial intermediation. Indeed, our simulations advertise the case in two countries. Korea empowered official supervision, reduced private monitoring regulations, and imposed greater restrictions on the nonlending activities of banks after its crisis. Mexico, while also strengthening official supervisory power, substantively increased regulations that enhance private monitoring and reduced restrictions on bank activities. While many other factors change in a country and many institutional characteristics shape the efficacy of bank regulations, our initial and preliminary estimates suggest greater optimism about Mexico's reforms than Korea's. In sum, our

examination of the latest data on bank regulation around the world does not provide a uniformly positive view of recent reforms.

While our preliminary examination of the data challenges the confident proclamations of many observers about improvements in bank regulation and supervision, the qualifications associated with these results must be prominently and repeatedly explicated. We do not relate changes in bank regulations to changes in outcomes. Thus, we do not run any regressions of changes in bank fragility, development, efficiency, or corruption on changes in bank regulations. We leave that to future research. Rather, in this paper, we first document the responses in Survey III and illustrate changes in bank regulations that have taken place over the last decade. Then, based on our early estimates from Survey I, we simulate how changes in bank regulations may influence various outcomes. In sum, the conclusion of this paper is where the analytics begin. Given these new data on banking-system reforms, researchers must assess the direct impact of these reforms on national banking systems to be more confident about which regulatory changes are for the better and which for the worse.

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Table 1 Regression Results

Logit Re	egression; D	ependent variable:		Cross-Country	OLS:	Cross-Bank OLS:							
Banking Crisis (cro	ss country)	Corruption (fir	m level)	Bank Develop	ment	Net Intere	Overhead Costs						
Activity Restriction	0.413 (0.015)**	Government Firm	-0.116 (0.572)	Activity Restriction	-0.061 (0.000)***	Activity Restriction	1.215 (0.001)***	0.26 (0.328)					
Entry into Banking Requirements	-0.062 (0.82)	Foreign Firm	-0.303 (0.010)***	Entry into Banking Requirements	0.025 (0.354)	Bank Size	-0.214 (0.000)***	-0.143 (0.000)***					
Capital Regulatory Index	-0.146 (0.571)	Exporter	-0.153 (0.141)	Capital Regulatory Index	0.002 (0.915)	Capital Regulatory Index	0.219 (0.113)	0.108 (0.299)					
Private Monitoring	0.356 (0.238)	Private Monitoring	-0.138 (0.002)***	Private Monitoring	0.084 (0.000)***	Private Monitoring	-0.603 (0.000)***	-0.454 (0.000)***					
Government Owned Banks	1.336 (0.545)	Official Supervisory Power	0.122 (0.000)***	Official Supervisory Power	-0.012 (0.358)	Official Supervisory Power	-0.08 (0.321)	-0.072 (0.234)					
Inflation	0.065 (0.036)**	Sales	-0.051 (0.000)***	Legal OriginUK	-0.057 (0.775)	Liquidity	-0.019 (0.000)***	0.006 (0.029)**					
Diversification index	-16.508 (0.006)***	Number of Competitors	0.798 (0.000)***	Legal OriginFrance	-0.008 (0.971)	Market Share	1.586 (0.006)***	0.99 (0.060)*					
Diversification Index*LnGNP	0.597 (0.007)***	Growth	-14.711 (0.000)***	Legal OriginGermany	0.459 (0.057)*	Fee Income	-0.027 (0.287)						
		Manufacturing Sector	0.14 (0.338)	Legal OriginSocialist	-0.265 (0.208)	Bank Equity	0.024 (0.000)***	0.026 (0.000)***					
		Services Sector	0.129 (0.368)			Growth	-0.24 (0.009)***	-0.14 (0.051)*					
Constant	-4.072 (0.215)	Constant	-0.623 (0.101)	Constant	0.565 (0.070)*	Constant	7.319 (0.000)***	6.726 (0.000)***					
Observations	52	Observations no clustering	2259	Observations R-squared	69 0.547	Observations Number of countries	1362 68	1365 68					

Robust p values in parentheses.
\* significant at 10%; \*\* significant at 5%; \*\*\* significant at 1%

**Table 2 Changes in Components of Capital Regulatory Index** 

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Netherlands	0	0	0	1	1_	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1 _	0
New Zealand	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1 _	0	0	1 _	0	0	0	0	1	1 _	1
Oman	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Panama	0	0	0	0	1	0	-1	1	1	0	0	0	0	0	0	0	1	0	1	-1	1	1	-1	1	0	-1	0
Peru	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	0	0	-1	0	0	-1	0	0	-1	0
Philippines	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	-1	0	0	0	1	0	0	0	0	0	1	0
Poland	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	0	1	-1	1	0	-1	0	0	-1	0
Portugal	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0
Romania	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0
Russia	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	-1	1	0	0	0	0	0	0	0	0	0
Saudi Arabia	0	-1	0	0	1	0	-1	1	1	0	0	0	-1	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Singapore	1	0	0	-1	0	0	-1	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Slovenia	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	-1	0	0	-1	0	0	-1	0
South Africa	0	0	0	-1	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
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Thailand	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
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United Kingdom	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	0	0	-1	1	1	0	0	0	0	0	0
United States	0	0	0	0	-1	0	0	1	0	0	0	0	-1	1	1	0	0	0	0	0	0	1	0	0	0	-1	0
Venezuela	0	0	0	1	0	0	1	-1	1	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

This table shows changes in questions that are combined in the "Capital Regulatory Index" between Survey I, II and III. The first row shows the relevant question and the second row shows the direction of change, ie, from Survey I to Survey II to Survey II to Survey III. Suppose a change from Survey I to Survey II (ie. Survey I  $\rightarrow$  II):

For questions 1.6 and 1.7

- defines a change from "yes" to a question in Survey I to "no" to the same questions in Survey II.
- is equivalent to a change from "no" in Survey I to "yes" in Survey II.

### All other questions:

- defines a change from "no" to a question in Survey I to "yes" to the same questions in Survey II.
- is equivalent to a change from "yes" in Survey I to "no" in Survey II.

Positive values indicate higher stringency with respect to capital requirements.

The third column in each questions ("REV") indicates a directional reversal. A directional reversal in an answer occurs when there was a change between Survey I and II and an opposite change in the answer between Survey II and III for this question. Due to this, there no change identified between Survey I and III.

- 1.5 Are the sources of funds to be used as capital verified by the regulatory/ supervisory authorities?
- 1.6 Can the initial disbursement or subsequent injections of capital be done with assets other than cash or government securities.
- 1.7 Can initial disbursement of capital be done with borrowed funds?
- 3.1.1 Is the minimum capital-asset ratio requirement risk-weighted in line with the Basle guidelines?
- 3.3 Does the minimum ratio vary as a function of market risk?
- 3.9.1 Are market value of loan losses not realized in accounting books deducted?
- 3.9.2 Are unrealized losses in securities portfolios deducted?
- 3.9.3 Are unrealized foreign exchange losses deducted?

REVGA Equal to "yes" if less than 75% if revaluation gains are allowed as part of capital.

	Table 3 Changes in Components of Entry into Banking Restrictions																							
		1.8.1			1.8.2			1.8.3			1.8.4			1.8. <u>5</u>			1.8.6	-		1.8.7	7	<u>1.8.8</u>		
	<u></u> <u></u>	=	REV	_ <u></u>	=	REV	_ _ =	= ↓ ≡	REV	_ <u>↓</u>	= ↓ ≡	REV	<b>−</b>	= ↓ ≡	REV	_ <u>↓</u>	=	REV	_ <u></u>	=	REV	_ <u>↓</u>	= ↓ ≡	REV
Argentina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0		0
Australia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	0
Austria	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bahrain	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Belarus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	1	1	0	0	0	-1	1	1
Belgium	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bhutan	1	0	0	0	0	0	0	0	0	Ö	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bolivia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Botswana	0	0	0	0	0	0	0	0	0	Ö	0	0	0	0	0	0	0	0	0	0	0	o	0	0
Brazil	0	0	0	0	0	0	0	0	0	Ö	0	0	0	0	0	0	0	0	0	0	0	Ö	0	0
Burundi	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Canada	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chile	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Croatia	0	0	0	0	0	0	0	0	0	0	0	0	-1	0	0	0	0	0	0	0	0	1	0	0
Cyprus	0	0	0	0	-1	0	0	-1	0	0	-1	0	0	0	0	0	0	0	-1	0	0	-1	0	0
Czech Republic	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Denmark	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
El Salvador	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Estonia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Finland	0	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0
France	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	0	0	1	0	0	0	0	0	1	0
	0	_	0	0	0		0	0	_		0	0	_		_			1	0		0	0	0	0
Germany		0				0			0	1	0		0	0	0	1	1_			1			0	
Ghana	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0		0
Greece	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		1_	0	0
Guatemala	0	0	0	-1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	1	1
Guyana	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Honduras		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hungary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Iceland	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
India	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ireland	0	1	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1	0
Italy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jordan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1_	_ 1_	_ 1_	0	0	0
Kenya	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	1	1	0	0	0
Korea	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	-1	0
Kuwait	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0
Latvia	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Lebanon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lesotho	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A	N/A	N/A
Lithuania	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Luxembourg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Malaysia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Malta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mauritius	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	1	1
Mexico	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Moldova	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Morocco	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Netherlands	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	0	0	0	0	0	0	0
New Zealand	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Oman	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Panama	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Peru	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	0	0	0	-1	0
Philippines	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Poland	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Portugal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Romania	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	0
Russia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	1	1
Saudi Arabia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Singapore	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Slovenia	0	0	0	0	0	0	0	0	0	0	0	0	-1	1	1	0	0	0	0	0	0	0	0	0
South Africa	-1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	1	1	0	0	0
Spain	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	0
Sri Lanka	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	-1	1	0	0	0
Sweden	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	0	0	-1	0
Switzerland	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tajikistan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	0
Thailand	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trinidad & Tobago	-1	1	1	-1	1	1	-1	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0
United Kingdom	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
United States	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Venezuela	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	0	0	0	0	0	0	0

This table shows changes in questions that are combined in the index "Entry into Banking Requirements" between Survey I, II and III. The first row shows the relevant question and the second row shows the direction of change, ie, from Survey I to Survey II to Survey II to Survey III. Suppose a change from Survey I to Survey II (ie. Survey I  $\rightarrow$  II):

- defines a change from "no" to a question in Survey I to "yes" to the same questions in Survey II.
- is equivalent to a change from "yes" in Survey I to "no" in Survey II.

Positive values indicate higher stringency with respect to entry into banking requirements.

The third column in each question ("REV") indicates a directional reversal. A directional reversal in an answer occurs when there was a change between Survey I and II and an opposite change in the answer between Survey II and III for this question. Due to this, there no change identified between Survey I and III.

The following questions are shown in the table:

Which of the following are legally required to be submitted before issuance of the banking license?

1.8.1 Draft by-laws?

- 1.8.2 Intended organization chart?
- 1.8.3 Financial projections for first three
- 1.8.4 Financial information on main potential

- years?
  1.8.5 Background experience of future directors?
- 1.8.7 Sources of funds to be disbursed in capitalization of new banks?

- shareholders?
  1.8.6 Background experience of future managers?
- 1.8.8 Market differentiation intended for the new bank?

**Table 4 Changes in Components of Official Supervisory Power** 

	<u>5.5</u> <u>5.6</u> <u>5.7</u> <u>6.1</u> <u>10.4</u>			<u>11.2</u>	<u>11.3.1</u>	<u>11.3.2</u>	11.3.3	<u>11.6</u>	<u>11.7</u>	<u>11.9.1</u>	<u>11.9.2</u>	<u>11.9.3</u>		
		- = RE< - → = = ×	= REV	REV	_ = REV	- = RE< - → =	- = RE< - → = =	- = REV - → =	- = RE< - → = =		= REV	$\begin{array}{ccc} & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ \end{array}$	= REV	= REV
Argentina Australia Austria Bahrain Belarus Belgium Bhutan Bollivia Botswana Brazil Burundi	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 -1 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-1 1 1	1 0 0 0 0 0 0 -1 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 1 0	0 1 0 0 0 0 0 -1 0 0 0 0 0 0 0 0 0 0 0 1 0 0 -1 0 0 0 1 0	-0.5 0 0 0 -0.5 0 0 0 -0.5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-0.5 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0	-0.5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Canada Chile Croatia Cyprus Czech Republic Denmark El Salvador Estonia Finland France Germany	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0	0 -1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 -0.5 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0	1 0 0 0 0 0 0 1 0
Ghana Greece Guatemala Guyana Honduras Hungary Iceland India Ireland Italy Japan	0 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 0 0 0	0		1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 1 1 1 1 1 -0.5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Jordan Kenya Korea Kuwait Latvia Lebanon Lesotho Lithuania Luxembourg	0 0 0 0 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 N/A N/A N/A 0 0 0	1 -1 1 0 0 0 0 1 0 N/A N/A N/A 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 -1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 -1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	N/A N/A N/A N/A 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 0 0 0 0 1 0 0 -1 0.5 1 N/A N/A N/A 0 0 0 0	1 0 0 0 0 0 0 0 0 0 0 0 1 0 0 -1 0.5 1 N/A N/A N/A 0 0 0
Malaysia Malta Mauritius Mexico Moldova Morocco Netherlands New Zealand Oma Panama	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 N/A N/A N/A 0 0 0 0 0 0	0 0 0 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 N/A N/A N/A 0 0 0 0	0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 N/A N/A N/A 0 0 0 0 0 0	0 1 0 0 1 0 0 1 0 1 -1 1 1 0 0 0 0 0 N/A N/A N/A 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 -1 1 1 -1 1 1	0 0 0 0 0 0 1 0 0 N/A N/A N/A 0 0.5 0 0 0 0 N/A N/A N/A 0 0 0	0 0 0 0 0 0 1 0 0 0 N/A N/A N/A 0 0 0 0 0 0 0 0 -1 1 1 1 -1 0 0 0 0 0	0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0
Peru Philippines Poliupal Portugal Romania Russia Saudi Arabia Singapore Slovenia South Africa	0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0	0 0 0 0 N/A N/A N/A 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 N/A N/A N/A 1 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 -1 0 0 0 0 0 N/A N/A N/A	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 0 0.5 0.5 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Spain Sri Lanka Sweden Switzerland Tajikistan Thailand Trinidad & Tobago United Kingdom United States Venezuela	0 1 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	N/A N/A N/A 0 0 0 0 0 0 0 0 -1 1 1 1 0 0 1 0 0 0	0 0 0 0 0 N/A N/A N/A N/A 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 1 0 -1 1 1	0.5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0  -1 1 1 1  N/A N/A N/A  0 0 0 0  0 -0.5 0  0 0 0  0 0 0  0 0 0  0 0 0  0 0 0  0 0 0  0 0 0  0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

This table shows changes in questions that are combined in the index "Official Supervisory Power" between Survey I, II and III. The first row shows the relevant question and the second row shows the direction of change, ie, from Survey I to Survey II or from Survey II to Survey III. Suppose a change from Survey I to Survey II (ie. Survey I  $\rightarrow$  II):

## For all questions:

- defines a change from "no" to a question in Survey I to "yes" to the same questions in Survey II.
- is equivalent to a change from "yes" in Survey I to "no" in Survey II.

For questions 11.6, 11.7, 11.9.1, 11.9.2 and 11.9.3

• 0.5 shows that if no authority had the relevant power previously, the court is granted it in the more recent survey,

or

that if the court had the power previously, that it was granted also to the supervisory agency in the more recent survey.

• 10.5 shows that if the supervisory agency had the relevant power previously, the court is now the only one with this power in the more recent survey

or

that if the court had the power previously, it is not granted to the court or the supervisory agency in the more recent survey.

Positive values indicate higher power for the official supervisory authority.

The third column in each question ("REV") indicates a directional reversal. A directional reversal in an answer occurs when there was a change between Survey I and II and an opposite change in the answer between Survey II and III for this question. Due to this, there no change identified between Survey I and III.

- 5.5 Does the supervisory agency have the right to meet with external auditors to discuss their report without the approval of the bank?
- 5.6 Are auditors required by law to communicate directly to the supervisory agency any presumed involvement of bank directors or senior managers in elicit activities, fraud, or insider abuse?
- 5.7 Can supervisors take legal action against external auditors for negligence?
- 6.1 Can the supervisory authority force a bank to change its internal organization structure?
- 10.4 Are off-balance sheet items disclosed to supervisors?
- 11.2 Can the supervisory agency order the bank's directors or management to constitute provisions to cover actual or potential losses?

- 11.3 Can the supervisory agency suspend the director's decision to distribute:
- 11.3.1 Dividends?
- 11.3.2 Bonuses?
- 11.3.3 Management fees?
- 11.6 Can the supervisory agency legally declare- such that this declaration supersedes the rights of bank shareholders- that a bank is insolvent?
- 11.7 Does the Banking Law give authority to the supervisory agency to intervene that is, suspend some or all ownership rights a problem bank?
- 11.9 Regarding bank restructuring and reorganization, can the supervisory agency or any other government agency do the following:
- 11.9.1 Supersede shareholder rights?
- 11.9.2 Remove and replace management?
- 11.9.3 Remove and replace directors?

Table 5 Changes in Components of Overall Banking Restrictions												
		<u>4.1</u>			<u>4.2</u>			<u>4.3</u>			<u>4.4</u>	
	<u></u> <u></u>	= → =	REV	<u></u> <u></u>	= → =	REV	<u>↓</u>	= → =	REV	<u></u> <u></u>	= → =	REV
Argentina	0	0	0	1	0	0	1	1	0	2	0	0
Australia	1	0	0	1	0	0	1	-1	1	0	0	0
Austria	0	0	0	1	0	0	0	0	0	1	0	0
Bahrain	0	0	0	0	0	0	0	0	0	1	0	0
Belarus	0	0	0	0	0	0	0	-2	0	-1	0	0
Belgium	-1	0	0	1	0	0	0	-2	0	0	0	0
Bhutan	_ <sub>-1</sub> _	0	0	0	0	0	-1	0	0	0	0	0
Bolivia	0	1	0	1	-1	1	0	0	0	0	0	0
Botswana	1	2	0	-2	1	1	0	0	0	0	-1	0
Brazil	-1	1	1	0	0	0	1	-1	1	-2	1	1
Burundi	0	-2	0	0	0	0	-2	3	1	1	0	0
Canada	1	0	0	0	0	0	0	1	0	-1	0	0
Chile	0	0	0	1	1	0	Ö	0	0	1	0	0
Croatia	-1	1	1	1	-1	1	0	0	0	1	0	0
Cyprus	- <u>-</u> 1	1	1	1	-1	1	3	0	0	0	0	0
Czech Republic	1	-1	1	1	1	0	2	0	0	0	0	0
Denmark	1	-1	1	0	1	0	1	0	0	0	-1	o l
El Salvador	N/A	1	N/A	N/A	0	N/A	N/A	0	N/A	N/A	0	N/A
Estonia	-1	1	1	-1	1	1	-1	1	1	0	0	0
Finland	1	0	0	-1	1	1	1	0	0	0	0	0
France	0	0	0	0	1	0	0	2	0	0	0	0
Germany	0	0	0	2	0	0	0	0	0	0	0	0
Ghana	0	1	0	0	-1	0	-2	1	1	0	0	0
Greece	0	-1	0	0	0	0	1	-1	- <del>;</del> -	0	0	0
Guatemala	-1	1	1	-1	2	1	-2	2	- ; -	-1	0	0
Guyana	2	1	0	1	0	0	1	0	0	1	0	0
Honduras	0	0	0	2	-1	1	0	1	0	0	0	0
Hungary	0	-1	0	1	1	0	1		0	0	-1	0
Iceland	0	0	0	0	0	0	-1	1	1	-1	0	0
India	1	0	0	-1	-1	0	0	0	0	2	0	0
Ireland	0	0	0	-1 -1	0	0	0	0	0	0	0	0
Italy	0	1	0	1	0	0	0	0	0	-1	1	1
	0	0	0	0	0	0	0	0	0	0	0	0
Japan	0	0	0	-2	1	1	0	1	0	0	0	0
Jordan	0	1	0	- <del>- 2</del> -	2 -	- ¦ -	-1	- 1 2	1	2	-1	1
Kenya Korea	0	-	0	0	- <mark>-</mark> -	0	2	-1	- ¦ -	0	1	0
Kuwait		0	0	0	-	0	-2	2	- ¦ -	-1	0	0
Latvia	0 1	0	0	0				- <del>-</del> -	- ¦ -	0		0
		-	-	-	0	0	2 _	_ ' _			0	-
Lebanon	0	0	0	0	0	0	-1	1	1	0	0	0
Lesotho	-1	0	0	0	0	0	0	0	0	2	0	0
Lithuania	0	-1	0	0	2	0	-1	_ 2 _	1	0	0	0
Luxembourg	0	0	0	-1	2	1	0	2	0	1	-1	1
Malaysia	0	0	0	1	0	0	0	0	0	0	0	0
Malta	1	1	0	-1	1	1	1	-2	_ 1 _	0	-1	0
Mauritius	0	1 _	0	0	-2	0	1 _	1	1	0	0	0
Mexico	0	-1	0	0	0	0	-1	-1	0	0	-2	0

Moldova	2	-2	1	2	0	0	2	0	0	0	0	0
Morocco	0	0	0	-2	1	1	-1	1	1	0	0	0
Netherlands	0	1	0	1	-1	1	0	0	0	-1	0	0
New Zealand	0	0	0	0	1	0	0	0	0	0	0	0
Oman	-1	0	0	0	-1	0	0	0	0	0	0	0
Panama	0	0	0	2	0	0	1	0	0	0	0	0
Peru	0	1	0	-1	2	1	0	2	0	0	0	0
Philippines	0	0	0	0	0	0	0	0	0	0	0	0
Poland	0	-1	0	-1	1	1	-1	1	1	-1	0	0
Portugal	0	1	0	1	0	0	0	1	0	0	0	0
Romania	0	-1	0	-1	0	0	0	0	0	0	0	0
Russia	0	1	0	0	0	0	0	0	0	0	0	0
Saudi Arabia	-1	1	1	1	0	0	0	0	0	0	0	0
Singapore	0	0	0	0	1	0	0	0	0	2	-1	1
Slovenia	0	-1	0	1	1	0	1	0	0	0	-1	0
South Africa	0	0	0	-1	2	1	0	0	0	1	0	0
Spain	0	0	0	1	0	0	0	0	0	0	1	0
Sri Lanka	1	-1	1	2	1	0	2	0	0	N/A	N/A	N/A
Sweden	1	-1	1	0	1	0	0	1	0	-2	1	1
Switzerland	0	0	0	2	1	0	0	0	0	0	0	0
Tajikistan	2	1	0	3	0	0	2	-1	1	1	0	0
Thailand	1	1	0	1	0	0	1	0	0	0	0	0
Trinidad & Tobago	1 _	1 _	0	2	0	0	0	2	0	0	1	0
United Kingdom	0	0	0	0	1_	0	0	0	0	0	0	0
United States	0	0	0	0	0	0	0	0	0	0	0	0
Venezuela	N/A	N/A	N/A	0	2	0	-1	2	1	0	0	0

This table shows changes in questions that are combined in the index "Overall Restriction to Banking Activities" between Survey I, II and III. The first row shows the relevant question and the second row shows the direction of change, ie, from Survey I to Survey II or from Survey II to Survey III. Suppose a change from Survey I to Survey II (ie. Survey I  $\rightarrow$  II):

- Positive values show an increase in the relevant restriction between two surveys
- Negative values show a decrease in the relevant restriction between two surveys

Positive values indicate higher stringency with respect to entry into banking requirements.

The third column in each question ("REV") indicates a directional reversal. A directional reversal in an answer occurs when there was a change between Survey I and II and an opposite change in the answer between Survey II and III for this question. Due to this, there no change identified between Survey I and III.

The following questions are shown in the table:

4.1 What is the level of regulatory restrictiveness for bank participation in securities activities (the ability of banks to engage in the business of securities underwriting, brokering, dealing, and all aspects of the mutual fund industry)?

- 4.2 What is the level of regulatory restrictiveness for bank participation in insurance activities (the ability of banks to engage in insurance underwriting and selling)?
- 4.3 What is the level of regulatory restrictiveness for bank participation in real estate activities (the ability of banks to engage in real estate investment, development, and management)?
- 4.4 What is the level of regulatory restrictiveness for bank ownership of nonfinancial firms?

	Table 6 Changes in Components of Private Monitoring Index																										
	<u>C</u>	<u>AUD</u>	<u>IT</u>		<u>8.1</u>			10.1.1	_		<u>10.3</u>			10.6		`	10.4.1			<u>10.5</u>		<u>E</u>	BICR/	<u> </u>		<u>3.5</u>	
	_		R	-	<b>=</b> →	R	_ →	= →	RE	-1	= →	REV		= →	REV	_	= →	REV	<b>-</b>	_	REV			REV		= →	R
	<b>*</b>	<b>*</b>	REV	$\stackrel{\downarrow}{=}$	≝	REV	<b>*</b>	<b>*</b>	~	<u></u>	≝	~	<b>*</b>	≡	~	<b>+</b>	≟	~	<b>*</b>	$\stackrel{\star}{\equiv}$	~	<b>*</b>	≟	~	<b>±</b>	$\stackrel{\star}{\equiv}$	REV
Argentina	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1 _	0	0	0	0	0	0	0	0
Australia	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Austria	0	0	0	0	0	0	N/A	N/A	N/A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bahrain	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Belarus	0	0	0	0	0	0	1	-1	1	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Belgium	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bhutan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	N/A	N/A	N/A	1	0	0
Bolivia	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	-1	0	0	1	0	0	0	0	0
Botswana	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1 _	0	0	0	1	0	1 _	1	1	0	0	0
Brazil	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Burundi	-1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	-1	0	0	-1	0	0	N/A	N/A	N/A	0	0	0
Canada	0	0	0	0	0	0	0	0	0	0	0	0	1	-1	1	0	0	0	0	0	0	N/A	N/A	N/A	0	0	0
Chile	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Croatia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cyprus	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Czech Republic	0	0	0	0	0	0	-1	1	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0
Denmark	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	N/A	N/A	N/A	0	0	0
El Salvador	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	1	1	0	1	0	1	0	0	0	0	0
Estonia	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Finland	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	0	0	0	0	0
France	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	N/A	N/A	N/A	0	0	0
Germany	0	0	0	0	0	0	0	0	0	-1 1	1	1	1	0 -1	0	0 <b>1</b>	0	0	1	0	0	0	0	0	0	0 -1	0
Ghana	-	0	0	0	0	0	0	0	0		0	0	0	_	0		-1	1	0 1	0	0	N/A	N/A	N/A	0		0
Greece	0	0	0 0	0	0 0	0	-1 0	0 0	0	0 1	0	0	0	0 0	0 0	-1 1	<b>1</b>	0	0	0	0	0	0 0	0	0	0	0
Guatemala	0	0	0	0	0	0	0	0	0	-1	1	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0
Guyana Honduras	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	1	1	0	0	0	0	0	0	0	0	0
Hungary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1	-1	1	-1	1	1
Iceland	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
India	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	N/A	N/A	N/A	0	0	0
Ireland	0	0	0	0	0	0	0	0	0	0	0	0	1	-1	1	0	0	0	0	0	0	1	0	0	0	0	0
Italy	0	0	0	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Japan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Jordan	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Kenya	0	0	0	0	0	0	-1	0	0	1	0	0	0	0	0	0	0	0	1	-1	1	N/A	N/A	N/A	1	0	0
Korea	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0
Kuwait	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A	N/A	N/A	0	0	0
Latvia	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Lebanon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A	N/A	N/A	-1	0	0	N/A	N/A	N/A
Lesotho	0	0	0	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	0	0
Lithuania	0	0	0	0	0	0	1	-1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Luxembourg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	-1	1	0	0	0	0	0	0
Malaysia	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	-1	0	0	0	0	0
Malta	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mauritius	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Mexico	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1	0	0	0	0	0

Moldova	0	0	0	0	1	0	0	0	0	-1	0	0	0	0	0	1	-1	1	0	1	0	0	0	0	1	0	0
Morocco	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Netherlands	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	-1	1	1	1	0	0	0	0	0
New Zealand	0	0	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oman	0	0	0	0	0	0	0	0	0	0	-1	0	0	-1	0	0	0	0	1	-1	1	0	0	0	0	0	0
Panama	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Peru	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Philippines	0	0	0	1	0	0	0	0	0	0	0	0	N/A	N/A	N/A	0	0	0	0	0	0	N/A	N/A	N/A	1	0	0
Poland	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A	N/A	N/A	0	0	0
Portugal	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	-1	0	0	0	0	0
Romania	0	0	0	0	0	0	0	-1	0	1	-1	1	0	0	0	1	0	0	-1	0	0	N/A	N/A	N/A	0	0	0
Russia	0	0	0	0	1	0	0	0	0	0	0	0	1	-1	1	1	0	0	0	0	0	0	1	0	0	0	0
Saudi Arabia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A	N/A	N/A	-1	1	1	0	0	0
Singapore	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Slovenia	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0
South Africa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Spain	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Sri Lanka	0	0	0	1	-1	1	0	1	0	0	-1	0	0	0	0	0	0	0	0	0	0	N/A	N/A	N/A	0	0	0
Sweden	0	0	0	0	0	0	-1	1	1	-1	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Switzerland	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0
Tajikistan	0	0	0	-1	1	1	0	0	0	N/A	0	0	0														
Thailand	0	0	0	1	-1	1	1	-1	1	1	0	0	0	0	0	0	0	0	0	1	0	N/A	N/A	N/A	0	0	0
Trinidad &Tobago	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	-1	1	1	-1	1	0	0	0	0	0	0
United Kingdom	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
United States	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Venezuela	0	0	0	0	0	0	0	1	0	0	0	0	0	-1	0	0	1	0	0	0	0	N/A	N/A	N/A	0	0	0

This table shows changes in questions that are combined in the "Private Monitoring Index" between Survey I, II and III. The first row shows the relevant question and the second row shows the direction of change, ie, from Survey I to Survey II or from Survey II to Survey III. Suppose a change from Survey I to Survey II (ie. Survey I  $\rightarrow$  II):

- defines a change from "no" to a question in Survey I to "yes" to the same questions in Survey II.
- is equivalent to a change from "yes" in Survey I to "no" in Survey II.

Positive values indicate an increase in private supervision.

The third column in each question ("REV") indicates a directional reversal. A directional reversal in an answer occurs when there was a change between Survey I and II and an opposite change in the answer between Survey II and III for this question. Due to this, there no change identified between Survey I and III.

CAUDIT Equal to "Yes" if there is a compulsory external audit by a licensed or certified auditor.

- 8.1 Is there an explicit deposit insurance deposit insurance protection scheme?
- 10.1.1 Does accrued, though unpaid interest/ principal enter the income statement while the loan is still non-performing?

- 10.3 Are financial institutions required to produce consolidated accounts covering all bank and any non-financial subsidiaries?
- 10.6 Are bank directors legally liable if information disclosed is erroneous or misleading?
- 10.4.1 Are off-balance sheets disclosed to the public?
- 10.5 Must banks disclose their risk management procedures to the public?
- BICRA Equal to "yes" if all top ten banks are rated by international credit rating agencies.
- 3.5 Is subordinate debt allowable (required) as part of capital?

Figure 1

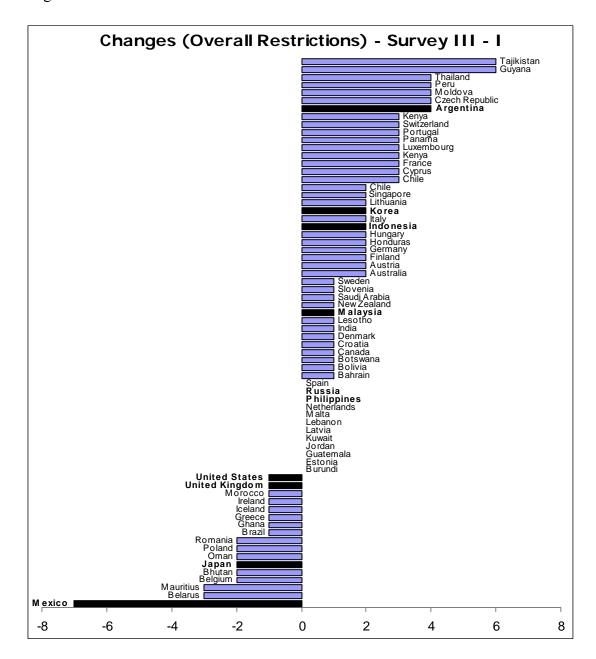


Figure 2

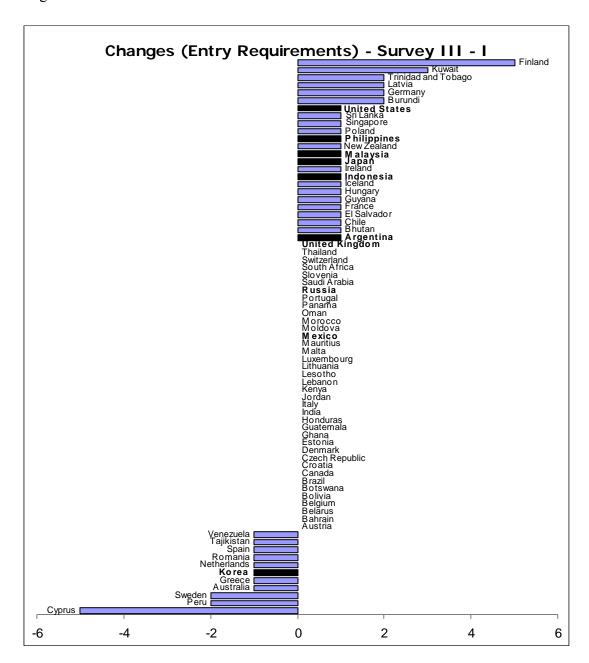


Figure 2a

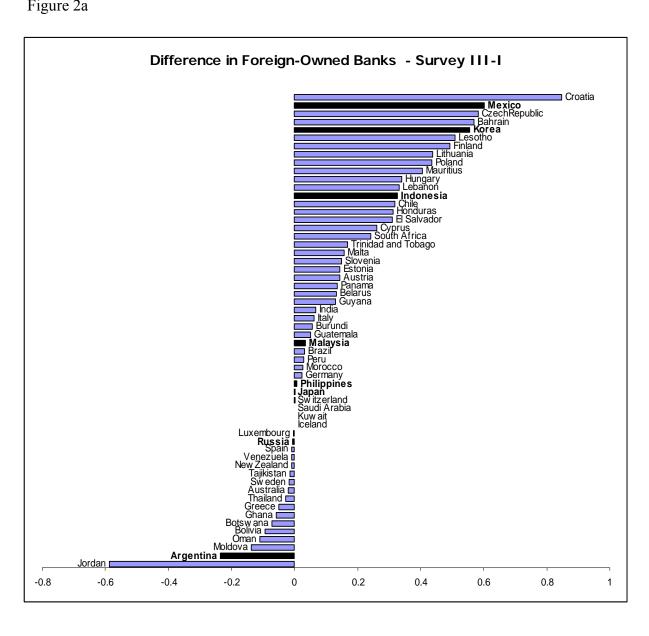


Figure 3

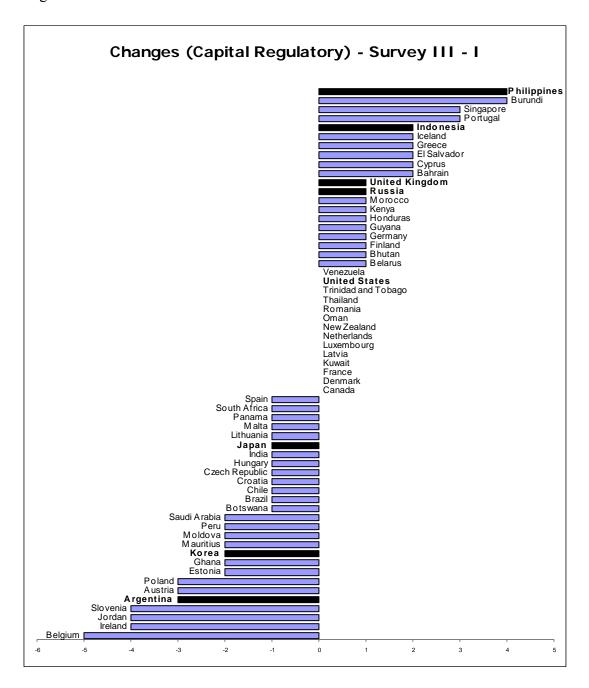


Figure 4

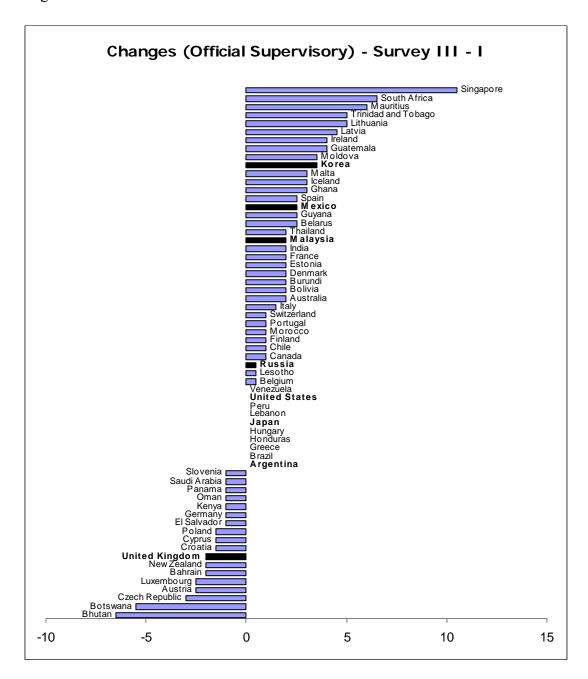


Figure 5

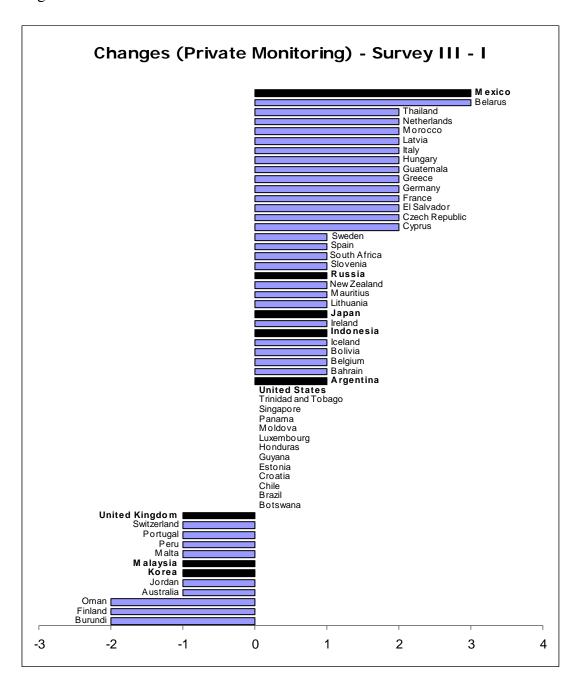


Figure 6

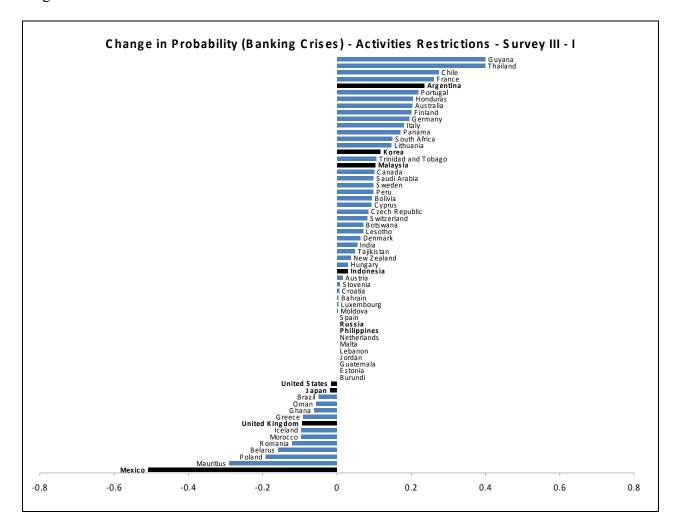


Figure 7

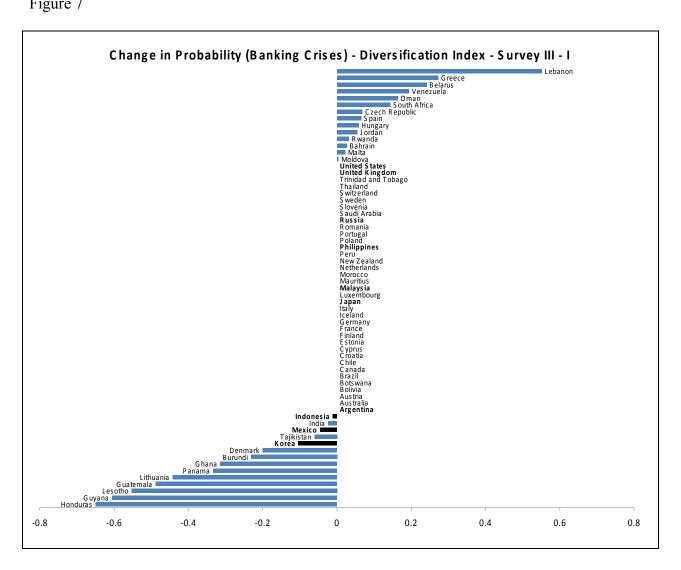


Figure 8

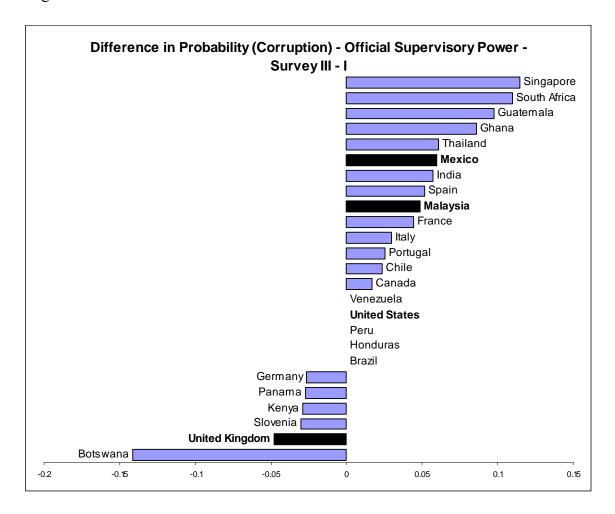


Figure 9

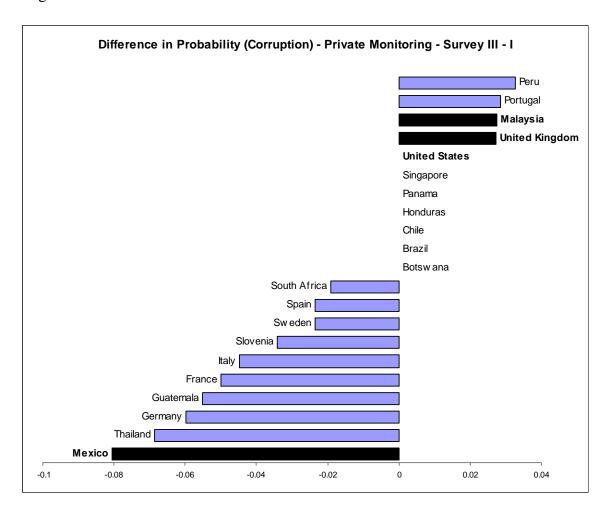


Figure 10

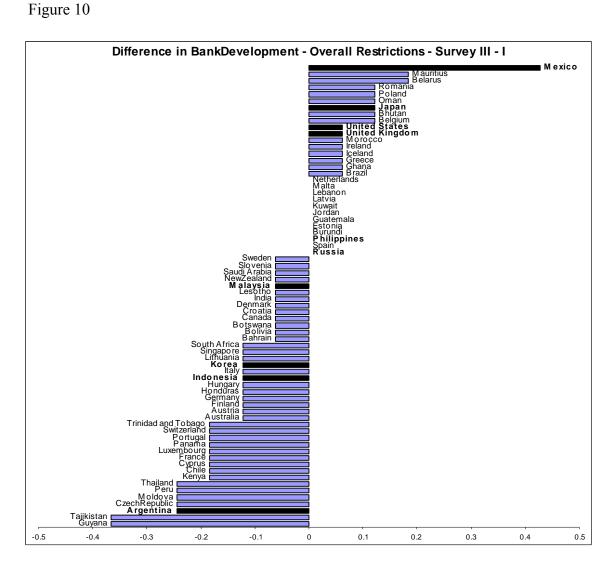


Figure 11

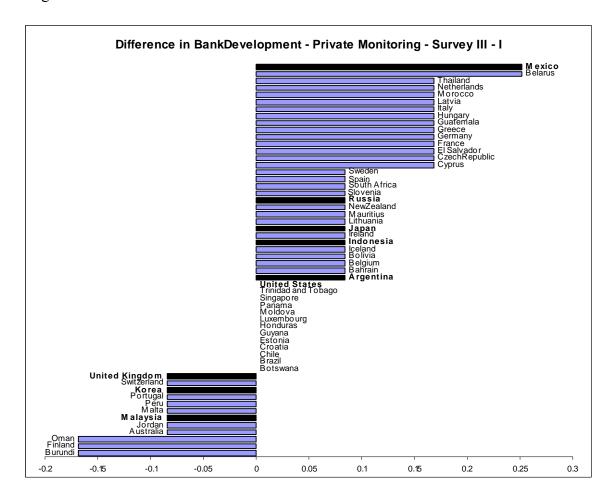


Figure 12

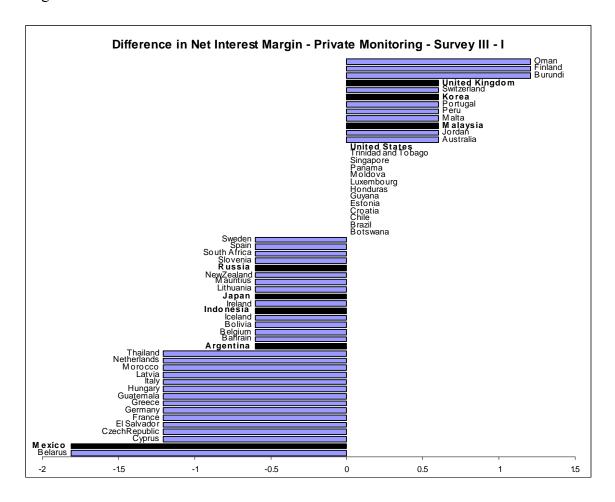
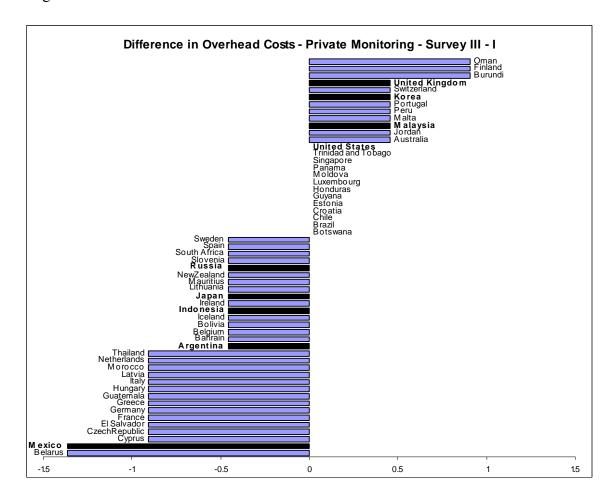


Figure 13



## Annex: Guide to the 2005-06 World Bank Survey

1. Entry into Banking	
1.1 What body/agency grants commercial banking licenses?	
1.1.1 Is there more than one body/agency that grants licenses to banks?	∘Yes ∘No
1.1.2 Is more than one license required (e.g., one for each banking activity, such as commercial	
securities operations, insurance, etc.)?	∘Yes
securities operations, insurance, etc.):	∘No
1.1.3 If more than one license is required, what is the maximum	0110
number required for a bank to engage in the broadest legally permissible range of activities?	
number required for a bank to engage in the broadest legally permissible range of activities?	
1211	
1.2 How many commercial banks were there at year-end 2005?	
1.2.1 What are the total assets of all commercial banks at year-end 2005?	
1.2.2 What are the total deposits of all commercial banks at year-end 2005?	
1.2.3 What are the total loans of all commercial banks at year-end 2005?	
1.3 What is the minimum capital entry requirement? (in US\$ and/or domestic currency, state	which)
1.3.1 For a domestic bank	
1.3.2 For a subsidiary of a foreign bank	
1.3.3 For a branch of a foreign bank	
1.4 Is it legally required that applicants submit information on the source of funds to be used	as capital?
	∘Yes
	∘No
1.5 Are the sources of funds to be used as capital verified by the regulatory/supervisory authorized by the regulatory of funds to be used as capital verified by the regulatory of funds to be used	orities?
	∘Yes
	∘No
1.6 Can the initial disbursement or subsequent injections of capital be done with assets other	
government securities?	•Yes
government securities:	∘No
1.7. Can initial dishursament of agnital hardens with harmanyad funda?	∘Yes
1.7 Can initial disbursement of capital be done with borrowed funds?	∘ Yes ∘No
10 WILL CILCTLE 1 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
1.8 Which of the following are legally required to be submitted before issuance of the bankir	-
1.8.1 Draft by-laws?	∘Yes
	∘No
1.8.2 Intended organization chart?	∘Yes
	∘No
1.8.3 Financial projections for first three years?	$\circ$ Yes
	∘No
1.8.4 Financial information on main potential shareholders?	∘Yes
	∘No
1.8.5 Background/experience of future directors?	∘Yes
	∘No
1.8.6 Background/experience of future managers?	∘Yes
	∘No
1.8.7 Sources of funds to be disbursed in the capitalization of new bank?	∘Yes
	∘No
1.8.8 Market differentiation intended for the new bank?	∘Yes
	∘No
1.9 In the past five years, how many applications for commercial banking licenses have been	
from domestic entities (e.g., those 50% or more domestically owned)?	15001700
1.9.1 How many of those applications have been denied?	
1.9.2 How many of those applications were accepted?	
1.9.3 How many of those applications were withdrawn?	

	In the past five years, how many applic foreign entities? And how many have b		banking licenses have b	een received
			. tha a a muiaiti an a C dans	a a 4 i a 1a a 1a 1a 1
		Denied	Withdrawn	
1.10.2	Number of applications from foreign e	entities to enter through Denied	n new, capitalized subsic Withdrawn	liary?
1 10 3	Received I Number of applications from foreign e	entities to enter through	opening a branch?	
1.10.5	Received I	Denied	Withdrawn	
1 10 4	Received I Number of applications from foreign e	entities to enter through	some other means?	
1.10.1	Received	Denied	Withdrawn	
1 11 W	Received	l of the applications in	1 9 1 and 1 10 1?	
	Capital amount or quality?	r or the applications in	1.7.1 unu 1.10.1.	∘Yes
1.11.1	cupital amount of quarty.			∘No
1 11 2	Banking skills?			∘Yes
1.11.2	Banking skins:			∘No
1 11 3	Reputation?			∘Yes
1.11.5	reputation:			∘No
1 11 4	Incomplete application?			∘Yes
1.11.1	meompiete application:			∘No
1 11 5	Other reason(s). Please list.			0140
	Are foreign entities prohibited from ent	tering through		
	Acquisition:	∘Yes, prohibited	○No, not prohibited	
	Subsidiary:	•Yes, prohibited	<ul><li>No, not prohibited</li></ul>	
	Branch:	• Yes, prohibited		
	Joint Venture:	• Yes, prohibited	○No, not prohibited	
	If acquisitions are not prohibited, what			nt is legally
	ole in a foreign acquisition?	i is the maximum perec	ontage of total shares the	it is legally
uno wu	ore in a rereign acquisition.			
2. Ow	nership			
2.1 1-	41		11	9
2.1 IS	there a maximum percentage of bank ca	apitai that can be owne	d by a single shareholde	
				∘Yes
2111	C 1 4 : 41 4 9			∘No
2.1.1 1	f yes, what is the percentage?			
22.0-				
2.2 Ca	n related parties own capital in a bank?			oVag
				∘Yes ∘No
221	If was what and the manimum manages		total assumanahin has a nal	
	If yes, what are the maximum percentage.g., family, business associates, etc.)?	ges associated with the	total ownership by a rei	ated party
	Are there penalties for violating this rule	<u></u>		
2.2.2 F	Are there penalties for violating this full	7 £		∘Yes
				∘No
23 Ca	n nonfinancial firms own any shares in	commercial banks?		∘Yes
2.5 Ca	ii nominanciai minis own any snares m	commercial banks:		∘No
				O1 <b>10</b>
2310	Can nonfinancial firms own voting share	es in commercial hanks	s?	∘Yes
2.5.1	Sun nonimunotar ining own voting share	o in commercial balls	<i>.</i>	∘No
				-110
2.3.2 I	f any voting shares can be owned by no	nfinancial firms, what	are the limits?	

a. Non-financial firm may own 100% of the equity in a commercial bank	
	$\circ$ Yes
	$\circ$ No
b. Non-financial firm may own 100% of the equity in a commercial bank; but prior authorization	
approval is required	∘Yes
	∘No
c. Limits are placed on ownership; such as maximum percentage of a commercial bank's cap	ital or shares ○Yes
	∘No
d. Nonfinancial firms cannot own any equity investment in a commercial bank whatsoever.	∘Yes ∘No
2.4 What fraction of capital in the largest 10 banks (in terms of their domestic assets) is owner commercial/industrial and/or financial conglomerates? If there are fewer than 10 banks, use to in your answer.	•
2.5 Can non-bank financial firms (e.g., insurance companies, finance companies, etc.) own as shares in commercial banks?	ny voting
a. Non-bank financial firms may own 100% of the equity in a commercial bank	
	∘Yes
	$\circ$ No
b. Non-bank financial firms may own 100% of the equity in a commercial bank; but prior autor approval is required	thorization ○Yes ○No
Timite and all and an armounting flowing house of the second seco	C -
c. Limits are placed on ownership of banks by nonfinancial firms, such as maximum percenta	age of a ○Yes
commercial bank's capital or shares	∘No
d. Non-bank financial firms cannot own any equity investment in a commercial bank whatso	ever
a. Non-bank imaneral firms cannot own any equity investment in a commercial bank whatso	∘Yes
	∘No
2.6 Of commercial banks in your country, what percentage of:	110
2.6.1 <u>deposits</u> is held by the five (5) largest banks (ranked by domestic deposits) at year-en	d 2005?
2.6.2 <u>assets</u> is held by the five (5) largest banks (ranked by domestic assets) at year-end 200	05?
2.7 Of all deposit-taking institutions in your country, what fraction of their assets is held by ju commercial banks?	ıst
3. Capital	
3.1 What is the minimum capital-asset ratio requirement?	
3.1.1 Is this ratio risk weighted in line with the 1988 Basel guidelines?	∘Yes ∘No
3.2 Does the minimum ratio vary as a function of an individual bank's credit risk?	∘Yes ∘No

3.3 Does the	minimum ratio vary as a function of market risk?	∘Yes ∘No
3.3.1 D	oes the minimum ratio vary as a function of operational risk?	∘Yes ∘No
3.3.2 Is	s there a simple leverage ratio that is required?	∘Yes
3.3.3 If	f yes, what is the leverage ratio?	○ <b>No</b>
3.4 What is the Accord definit	ne actual risk-adjusted capital ratio in banks as of year-end 2005, using the lions?	he 1988 Basle
	is the actual ratio between shareholders' equity (Tier 1 regulatory capitals of banks as of year-end 2005?	l) and total risk-
3.5 Is subordi	nated debt allowable as part of regulatory capital?	∘Yes ∘No
3.6. Is subord	inated debt required as part of regulatory capital?	∘Yes ∘No
3.7 What frac	tion of revaluation gains is allowed as part of regulatory capital?	
3.8 What fract 3.8.1	tion of the banking system's assets is in banks that are: 50% or more government owned as of year-end 2005?	
3.8.2	50% or more <u>foreign owned</u> as of year-end 2005?	
3.8.3	How many government owned banks are there as of year-end 2005	5?
3.8.4	How many foreign owned banks are there as of year-end 2005?	
3.9 Before mi value of capita	nimum capital adequacy is determined, which of the following are deducted	cted from the book
	value of loan losses not realized in accounting books?	oYes
3.9.2 Unrealiz	zed losses in securities portfolios?	∘No ∘Yes ∘No
3.9.3 Unrealiz	zed foreign exchange losses?	∘Yes ∘No
3.10 Are acco (IAS)?	unting practices for banks in accordance with International Accoun	ting Standards ○Yes ○No
	unting practices for banks in accordance with U.S. Generally Accep	
Principles (Ga	AAP)? Action of the banking systems' deposits are in banks that are:	∘Yes ∘No
J.14 WHAT ILA	ction of the banking systems acquisits are in banks that are:	

3.12.1 50% or more government owned as of year-end 2005?	
3.12.2 50% or more foreign owned as of year-end 2005?	
3.13 What fraction of the banking systems loans are in banks that are: 3.13.1 50% or more government owned as of year-end 2005?	
3.13.3 50% or more government owned as of year-end 2005?	
<ul><li>4. Activities</li><li>4.1 What are the conditions under which banks can engage in securities activities?</li><li>4.1.1 A full range of these activities can be conducted in directly in banks</li></ul>	∘Yes
4.1.2 A full range of these activities are offered but all or some of these activities must be consubsidiaries or in another part of a common holding company	○No ducted in ○Yes ○No
4.1.3 Less than the full range of activities can be conducted in banks or subsidiaries or in anot common holding company	
4.1.4 None of these activities can be done in either banks or subsidiaries or in another part of a holding company	
<ul><li>4.2 What are the conditions under which banks can engage in insurance activities?</li><li>4.2.1 A full range of these activities can be conducted in directly in banks</li></ul>	∘Yes ∘No
4.2.2 A full range of these activities are offered but all or some of these activities must be consubsidiaries or in another part of a common holding company	ducted in
4.2.3 Less than the full range of activities can be conducted in banks or subsidiaries or in and a common holding company	○Yes ○No other part of ○Yes
	$\circ$ No
4.2.4 None of these activities can be done in either banks or subsidiaries or in another part of a holding company	a common ○Yes ○No
<ul><li>4.3 What are the conditions under which banks can engage in real estate activities?</li><li>4.3.1 A full range of these activities can be conducted directly in banks</li></ul>	∘Yes ∘No
4.3.2 A full range of these activities are offered but all or some of these activities must be consubsidiaries or in another part of a common holding company	ducted in Yes
4.3.3 Less than the full range of activities can be conducted in banks or subsidiaries or in anot common holding company	∘Yes
4.3.4 None of these activities can be done in either banks or subsidiaries or in another part of a holding company	<ul><li>○No</li><li>a common</li><li>○Yes</li><li>○No</li></ul>
4.4 Can banks own voting shares in nonfinancial firms?	∘Yes ∘No

<ul><li>4.4.1 If yes, what are the limits:</li><li>4.4.1 A bank may own 100% of the equity in any nonfinancial firm</li></ul>	∘Yes
4.4.1 A bank may own 100% of the equity in a nonfinancial firm but ownership is limited bas bank's equity capital	∘Yes
4.4.3 A bank can only acquire less than 100% of the equity in a nonfinancial firm	∘No
	∘Yes ∘No
4.7.4 A bank may not have any equity investment in a nonfinancial firm whatsoever.	∘Yes ∘No
5. External Auditing Requirements	
5.1 Is an external audit a compulsory obligation for banks?	∘Yes ∘No
5.1.1 Are auditing practices for banks in accordance with international auditing standards?	
	∘Yes ∘No
5.1.2 Is it required by the regulators that bank audits be publicly disclosed?	∘Yes ∘No
5.2 Are specific requirements for the extent or nature of the audit spelled out?	∘Yes ∘No
5.3 Are auditors licensed or certified?	∘Yes ∘No
5.4 Do supervisors get a copy of the auditor's report?	∘Yes ∘No
5.5 Does the supervisory agency have the right to meet with external auditors of banks to discreport without the approval of the bank?	cuss their  OYes  ONo
5.6 Are auditors required by law to communicate directly to the supervisory agency any presinvolvement of bank directors or senior managers in illicit activities, fraud, or insider abuse?	umed
	∘Yes ∘No
5.6.1 Are external auditors legally required to report to the supervisory agency any other info discovered in an audit that could jeopardize the health of a bank?	

5.7 Can supervisory agencies take legal action against external bank auditors for negligence?	∘Yes ∘No
5.8 Has legal action been taken against a bank auditor in the last 5 years?	∘Yes ∘No
<ul><li>6. Internal Management/Organizational requirements</li><li>6.1 Can the supervisory authority legally force a bank to change its internal organizational str</li></ul>	ructure?  OYes
6.2 Has this power been utilized in the last 5 years?	∘No ∘Yes ∘No
7. Liquidity & Diversification Requirements 7.1 Are there explicit, verifiable, and quantifiable guidelines regarding asset diversification? example, are banks required to have some minimum diversification of loans among sectors, o industrial or sectoral concentration limits)?	(for r are their ∘Yes ∘No
7.1.1 Are banks limited in their lending to single or related borrowers?	$\circ$ Yes
7.1.1.a If yes, what is the limit?	∘No ∘Yes
7.1.3 Are banks required to meet geographical diversification requirements (by region we country, or some minimum international diversification)?	
	∘Yes ∘No
7.2 Are banks prohibited from making loans abroad?	∘Yes ∘No
7.3 Are banks required to hold either liquidity reserves or any deposits at the Central Bank?	∘Yes ∘No
7.3.1 If so, what are these requirements?	
7.4 Do these reserves earn any interest?	∘Yes
	∘No
7.4.1 What interest is paid on these reserves?	
7.5 Are banks allowed to hold reserves in foreign denominated currencies or other for denominated instruments?	reign Yes
If yes, please state the ratio	∘No

7.6 Are banks required to hold reserves in foreign denominated currencies or othe denominated instruments?	er foreign ○Yes ○No
If yes, please state the ratio	0110
7.7 What percent of the commercial banking system's assets is foreign-currency denomination.	ated?
7.8 What percent of the commercial banking system's liabilities is foreign-currency denor	ninated?
7.9 What percent of the commercial banking system's assets is in central government bond government or central bank securities?	ls or other
7.10 What percent of the commercial banking system's assets is funded with deposits?	
7.10.1 What percent of the commercial banking system's assets is funded with insured depo	osits?
8. Depositor (Savings) Protection Schemes 8.1 Is there an explicit deposit insurance protection system?	∘Yes ∘No
If no, you may skip to question 8.2. If yes: 8.1.1 Is it funded by (check one): the government, the banks, or both? othe government	
othe banks oboth 8.1.2 Are premia collected regularly (ex ante)	∘Yes
only when there is a need (ex post)	∘No ∘Yes
or both?	∘No ∘Yes
8.1.3 Do deposit insurance fees charged to banks vary based on some assessment of risk?	∘No ∘Yes
○No	
8.1.4 If pre-funded, what is the ratio of accumulated funds to total bank assets?	
8.1.5 What is the deposit insurance limit per account (in US\$ and local currency)?	
8.1.5.1 US\$:	
8.1.5.2 Domestic currency:	
8.1.6 Is there a limit per person?	∘Yes ∘No
8.1.6.1 If yes, what is that limit (in domestic currency)?	
8.1.7 Is there formal co-insurance, that is, are depositors explicitly insured for less than 100 deposits?	0% of thei
	∘Yes ∘No

8.1.8 Does the deposit insurance scheme also cover foreign currency deposits?	
	∘Yes ∘No
8.1.9 Are interbank deposits covered?	∘Yes ∘No
8.1.10 Does the deposit insurance authority make the decision to intervene a bank?	∘Yes
8.1.10.1 If no, who does?	∘No
8.1.11 Does the deposit insurance authority by itself have the legal power to cancel or revoke insurance for any participating bank?	e deposit ∘Yes ∘No
8.2 As a share of total assets, what is the value of large denominated debt liabilities of banks subordinated debt, bonds, etc.) that are definitely not covered by any explicit or implicit saving protection scheme?	
8.3 As part of failure resolution, how many banks closed or merged in the last 5 years?	_
8.3.1 As part of failure resolution, how many banks were nationalized or recapitalized v funds in the last 5 years?	vith official
8.4 Were insured depositors wholly compensated (to the extent of legal protection)	∘Yes ∘No
the last time a bank failed? 8.4.1 On average, how long does it take to pay depositors in full?	
8.4.2 What was the longest that depositors had to wait to be paid in the last 5 years?	
8.5 Were any deposits not explicitly covered by deposit insurance at the time of the failure covered by the bank failed (excluding funds later paid out in liquidation procedures)?	ompensated
	∘Yes ∘No
8.6 Can the deposit insurance agency/fund take legal action for violations against laws, regulable bylaws (of the deposit insurance agency) against bank directors or other bank officials?	
8.7 Has the deposit insurance agency/fund ever taken legal action for violations against laws and bylaws (of the deposit insurance agency)against bank directors or other bank officials?	, regulations, ∘Yes ∘No
8.8 Are non-residents treated less favorably than residents with respect to deposit insurance s coverage (either in terms of coverage for which they are entitled or the actual protection prov	
<ul><li>8.9 Who manages the insurance fund? Is it managed:</li><li>a. solely by the private sector?</li><li>ONo</li></ul>	∘Yes

b. jointly by private-public officials?	oYes
oNo c. solely by public sector?	∘Yes ∘No
8.10. Is participation in the deposit insurance system compulsory for all banks?	∘Yes ∘No
<ul><li>9. Provisioning Requirements</li><li>9.1 Is there a formal definition of a "non-performing loan" ?</li></ul>	∘Yes ∘No
9.1.1 The primary system for loan classification is based on (PLEASE PICK ON the number of days a loan is in arrears	E): ∘Yes ∘No
(b) a forward looking estimate of the expected loss	∘Yes ∘No
(c) other (For other, please send attachment either electronically or by mail.)	∘Yes ∘No
9.2 After how many days is a loan in arrears classified as:	
9.2.1 Sub-standard?	
9.2.2 Doubtful?	
9.2.3 Loss?	
9.3 What is the minimum provisioning percentage required as loans become:	
9.3.1 Sub-standard?	
9.3.2 Doubtful?	
9.3.3 Loss?	
9.4 What is the ratio of non-performing loans to total assets as of year-end 2005?	
9.5 If a customer has multiple loans and one loan is classified as non-performing, a automatically classified as non-performing?	re the other loans  ○Yes  ○No
9.6 What is the aggregate net interest margin-to-asset ratio for all banks as of year-e	end 2005?
9.7 What is the aggregate overhead costs-to-asset ratio for all banks as of year-end 2	2005?

9.8 9.8.1	What is the tax deductibility of provisions:  Specific provisions can be deducted	∘Yes
		$\circ$ No
9.8.2	General provisions can be deducted	$\circ$ Yes
		$\circ$ No
9.8.3	Provisions cannot be deducted	∘Yes
		∘No
9.9 V 9.10	What is the tax rate on domestic bank income?	
10. A	.ccounting/Information Disclosure Requirements	
	Does accrued, though unpaid, interest/principal enter the income	∘Yes
	principal cites and income	∘No
staten	nent while the loan is still performing?	
	Does accrued, though unpaid, interest/principal enter the income	∘Yes
		$\circ$ No
staten	nent while the loan is non-performing?	
10.2	After how many days in arrears must interest income accrual cease?	
10.3	Are financial institutions required to produce consolidated accounts covering all bank	and any n
bank t	financial subsidiaries (including affiliates of common holding companies)?	
		$\circ$ Yes
		$\circ$ No
10.4	Are off helenes shoot items disaloged to supervisors?	∘Yes
10.4	Are off-balance sheet items disclosed to supervisors?	∘ i es ∘No
10 / 1	Are off balance shoot items disalosed to the public?	∘No ∘Yes
10.4.1	Are off-balance sheet items disclosed to the public?	
10.4.2	What is the total amount of off belongs shoot items at year and 2005?	∘No
10.4.2	What is the total amount of off-balance sheet items at year-end 2005?	
10.5	Must banks disclose their risk management procedures to the public?	∘Yes
10.5	wide builts discress their risk management procedures to the public.	∘ No
		9110
10.6	Are bank directors legally liable if information disclosed is erroneous or misleading?	
		∘Yes
		∘No
10.6.1	What are the penalties, if applicable?	
	1 / 11	
10.6.2	2. Have they been enforced in the last 5 years?	∘Yes
10.0.2	2 Trave they occin emoretum the last 3 years?	∘ i es ∘No
10 6 3	If yes, how many times have penalties been imposed during that period?	OINO
10.0.3	11 yes, now many times have penalties been imposed during that period?	
10.7		- 37
10./	Do regulations require credit ratings for commercial banks?	∘Yes ∘No
		$\cup$ 1 <b>N</b> ()

11.5.1 Is there a separate bank insolvency law?	∘Yes ∘No
11.5 Which laws address bank insolvency?	5110
11.4 Have any such actions been taken in the last 5 years?	∘Yes ∘No
	∘No
11.3.3 Management fees?	∘Yes
11.3.2 Bonuses?	∘Yes ∘No
11.2.2 Damusas?	∘No ∘Vas
11.3.1 Dividends?	oYes
to constitute provisions to cover actual or potential losses?  11.3 Can the supervisory agency suspend the directors' decision to distribute:	
11.2 Can the supervisory agency order the bank's directors or management	∘Yes ∘No
11.2 Con the symposiscent accuracy and on the health discretes an accuracy	∘No ∘Vas
include cease-and desist orders and written agreements between a bank regulatory/su banking organization?	pervisory body and •Yes
11.1.1 Are bank regulators/supervisors required to make public formal enforcement	
11. Discipline/Problem Institutions/Exit 11.1 Are there any mechanisms of cease and desist-type orders, whose infraction lead imposition of civil or penal sanctions on a bank's directors and managers?	ds to the automatic  •Yes  •No
companies, financial guarantees, etc.)?	∘Yes ∘No
10.7.3.3 Other activity (e.g., issuance of bank certificates of deposit, pension and mu	
10.7.3.2 Commercial paper issuance?	∘Yes ∘No
10.7.3.1 Bond issuance?	∘Yes ∘No
10.7.3 Which bank activities are rated?	
10.7.2 How many of the top ten banks (in terms of total domestic assets) are rated by rating agencies?	domestic credit
rating agencies?	

11.6 Who can legally declare - such that this declaration supersedes t shareholders - that a bank is insolvent (check all that apply):	he some of the ri	ghts of
11.6.1 Bank supervisor	∘Yes	∘No
11.6.2 Court	oYes	∘No
11.6.3 Deposit insurance agency	∘Yes	
11.6.4 Bank restructuring or Asset Management Agency	∘Yes	
11.6.5 Other (please specify)		
11.7: According to the Banking Law, who has authority to intervene - the theorem of the same of the sa	hat is, suspend so	me or all
11.7.1 Bank supervisor	$\circ$ Yes	∘No
11.7.2 Court	$\circ$ Yes	∘No
11.7.3 Deposit insurance agency	$\circ$ Yes	∘No
11.7.4 Bank restructuring or Asset Management Agency 11.7.5 Other (please specify)	∘Yes	∘No
11.8 Does the Banking Law establish pre-determined levels of solvence deterioration which forces automatic actions (like intervention)?	y (capital or net v	vorth) ∘Yes ∘No
11.9 Regarding bank restructuring and reorganization, can the supervising government agency listed below do the following: In each case, check at the control of the contro		y other
11.9.1 Supersede shareholder rights?	∘Yes	∘No
11.9.1.1 Bank supervisor 11.9.1.2.Court	o Yes	○No ○No
11.9.1.3 Deposit insurance agency	oYes	$\circ$ No
11.9.1.4 Bank restructuring or Asset Management Agency	∘Yes	○No
11.9.1.5 Other (please specify)		○1 <b>\0</b>
11.9.2 Remove and replace management?		
11.9.2.1 Bank supervisor	∘Yes	∘No
11.9.2.2 Court	∘Yes	∘No
11.9.2.3 Deposit insurance agency	∘Yes	$\circ$ No
11.9.2.4 Bank restructuring or Asset Management Agency 11.9.2.5 Other (please specify)	∘Yes	∘No
11.9.3 Remove and replace directors?		
11.9.3.1 Bank supervisor	∘Yes	$\circ$ No
11.9.3.2 Court	∘Yes	$\circ$ No
11.9.3.3 Deposit insurance agency	$\circ$ Yes	$\circ$ No
11.9.3.4 Bank restructuring or Asset Management Agency 11.9.3.5 Other (please specify)	∘Yes	∘No
11.9.4 Forbear certain prudential regulations?		
11.9.4.1 Bank supervisor	$\circ$ Yes	$\circ$ No

11.9.4.2 Court	$\circ$ Yes	$\circ$ No
11.9.4.3 Deposit insurance agency	$\circ$ Yes	∘No
11.9.4.4 Bank restructuring or Asset Management Agency 11.9.4.5 Other (please specify)	∘Yes	
11.9.5 Insure liabilities beyond any explicit deposit insurance scheme?		
11.9.5.1 Bank supervisor	∘Yes	∘No
11.9.5.2 Court	∘Yes	∘No
11.9.5.3 Deposit insurance agency 11.9.5.4Bank restructuring or Asset Management Agency	∘Yes ∘Yes	∘No ∘No
11.9.5.5 Other (please specify)		
11.10.1 During the last five years, how many banks have been resolved in the was the percentage of assets of the banking system accounted for by each) a. Closure and liquidation Percentage of banking system assets b. Intervention (or taking control) and open bank assistance (liquidit Number: Percentage of banking system assets c. Transfer of assets and liabilities (incl. purchase and assumption) or merge Number: Percentage of banking system assets d. Other (please specify)	ty support)	
11.10.2 What percentage of total banking system assets did each of these re 11.10.2.1 Closure and liquidation		
11.10.2.4 Other		
11.10.3 How many months did each of these resolution techniques take <u>on a intervention</u> by the responsible authority to the moment of resolution?		n the moment of
11.11 Who is responsible for appointing and supervising a bank liquidator/r		oNo.
11.11.1 Bank supervisor 11.11.2 Court	∘Yes ∘Yes	∘No ∘No
11.11.2 Court 11.11.3 Deposit insurance agency	∘Yes	○No
11.11.4 Bank restructuring or Asset Management Agency	∘Yes	∘No
11.11.5 Other (please specify)	∘Yes	oNo
11.12 Is court approval required for supervisory actions, such as supercedin removing and replacing management, removing and replacing director, or lie		
11.13 Is court order required to appoint a receiver/liquidator in the event of OYes ONo		
11.14 Can the bank shareholders appeal to the court against a decision of th	e bank super Yes ONo	visor?

11.14.1 If yes, how many appeals were made in the past five years? 12. Supervision 12.1 What body/agency supervises banks? (Check all that apply) 12.1.1 The Central Bank? oYes  $\circ$ No 12.1.2 A Single Bank Supervisory Agency/Superintendency?  $\circ$ Yes  $\circ$ No 12.1.3 Multiple Bank Supervisory Agencies/Superintendencies?  $\circ$ Yes  $\circ$ No 12.1.4 Is there a single financial supervisory agency for all of the main financial institutions (insurance companies, contractual savings institutions, savings banks)? ∘Yes  $\circ$ No If yes, what is its name? 12.1.5 Is there a single financial supervisory agency for all of the activities in which commercial banks are allowed to do business? ∘Yes  $\circ$ No If yes, what is its name? 12.2 To whom are the bank supervisory bodies responsible or accountable? (a) the Prime Minister ∘Yes  $\circ$ No (b) the Finance Minister or other cabinet level official  $\circ$ Yes  $\circ$ No (c) a legislative body, such as Parliament or Congress ∘Yes  $\circ$ No (d) other  $\circ$ Yes  $\circ$ No 12.2.1 How is the head of your supervisory agency (and other directors) appointed? the decision of the head of government (e.g., President, Prime Minister) (a) ∘Yes  $\circ$ No (b) the decision of the Finance Minister or other cabinet level authority OYes  $\circ$ No a simple majority of a legislative body (Parliament or Congress) (c) •Yes  $\circ$ No a supermajority (e.g., 60%, 75%) of a legislative body  $\circ$ Yes (d)  $\circ$ No (e) other ∘Yes  $\circ$ No 12.2.2 Does the head of the supervisory agency (and other directors) have a fixed term?  $\circ$ Yes  $\circ$ No

If yes, how long is the term?

12.2.3	Can the head of the supervisory agency be removed by:	
(a)	the decision of the head of government (e.g., President, Prime Minister)	$\circ$ Yes
		∘No
(b)	the decision of the Finance Minister or other cabinet level authority	$\circ$ Yes
		∘No
(f)	a simple majority of a legislative body (Parliament or Congress)	∘Yes
( )	(	∘No
(g)	a supermajority (e.g., 60%, 75%) of a legislative body ○No	∘Yes
(h)	other	∘Yes
	$\circ$ No	
12.3 Is y	your country planning on adopting Basel II	∘Yes
·		$\circ$ No
12.3.1 It	f yes, which variant are you planning on adopting:	
a.	The Standardized Approach	∘Yes
		$\circ$ No
b.	The Foundation IRB Approach	∘Yes
		$\circ$ No
c.	The Advanced IRB Approach	○Yes
		$\circ$ No
12.4 Ho	ow many professional bank supervisors are there in total?	
12.5 Ho	ow many onsite examinations per bank were performed in the last five years?	
12 ( W	hat is the total budget for surremision in least surmaness on dellars (places an exist)	÷ 2005 2
12.0 W	hat is the total budget for supervision in local currency or dollars (please specify)	111 2003 !
12.6.1 V	What is the source of this funding?	
	ow frequently are onsite inspections conducted in large and medium size banks?  Output Description   Output Descri	
12.8 Ho	ow many of the total bank supervisors have more than 10 years of experience in b	ank supervision?
	What is the average tenure of current supervisors (i.e., what is the average number ors have been supervisors)?	of years current
	an infraction of any prudential regulation is found in the course of supervision, Are there mandatory actions that the supervisor must take in these cases?	o.V.o.
		∘Yes
12025	Who outhorized executions to such actions?	∘No
12.9.2	Who authorizes exceptions to such actions?	
12.9.3	How many exceptions were granted last year?	
12.10	Some in distributed company is some staffth a held as a second list list from decrease ( ). I decrease in the second list list from decrease ( ) is a list of the second list list from decrease ( ).	
	an individual supervisory staff be held personally liable for damages to a bank ca	•
actions (	or omissions committed in the good faith exercise of their duties	∘Yes
12 10 1	Can the supervisory econor he hold liable for James as to a house source of the iterate	○No
12.10.1	Can the supervisory agency be held liable for damages to a bank caused by its act	ons?⊙yes ⊙No