

Governance Matters II: Updated Indicators for 2000/01

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Abstract This paper reports aggregate governance indicators for six dimensions of governance, covering 175 countries in 2000/01. We apply the methodology developed in Kaufmann, Kraay and Zoido-Lobaton (1999a,b) to newly-available data, to arrive at governance indicators comparable with those we constructed for 1997/98.

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1. Introduction

The objective of this short paper is to present updated estimates of six dimensions of governance for 175 countries in 2000/01. We draw on 17 separate sources of subjective data on perceptions of governance constructed by 15 different organizations, and use the unobserved components methodology described in our previous work (Kaufmann, Kraay and Zoido-Lobaton (1999a,b)) to construct updates of our governance indicators covering the period 1997/98. Table 2 of this paper reports both the 1997/98 and the 2000/01 indicators. The data is also available electronically at <http://www.worldbank.org/wbi/governance/govdata2001.htm> or <http://www.worldbank.org/research/growth>.

In our previous work, we constructed aggregate governance indicators for six broad concepts of governance, using an unobserved components methodology that permitted us to also report measures of the precision of governance estimates for each country. One of the main findings of this previous research was the margins of error associated with the composite estimates of governance for each country are typically quite large relative to the units in which governance is measured. This implies that cross-country comparisons of the quality of governance based on this type of data need to be made with considerable caution: many of the small measured differences in governance perceptions are too small to be statistically – or practically – significant, and only large differences are likely to be statistically meaningful.

The updated governance indicators in this paper display the same substantial margins of error as in our previous work – although by drawing on a slightly larger set of underlying sources of governance data, the average precision of the governance indicators is slightly higher. As a result, the same caution about the robustness of cross-country governance rankings stressed in our previous work continues to apply here. Using the updated governance indicators, we can now also for the first time compare changes over time in point estimates of governance with measures of precision of these estimates. For the majority of countries, changes in governance perceptions over the four-year period we consider are small relative to the margins of error associated with levels of governance. This points to the importance of treating many of the small observed *changes* over time in governance with the same caution as the many small differences in the *level* of governance across countries at a given point in time.

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Nevertheless, we do find that for some countries, changes over time in governance perceptions even over the fairly short four-year period we consider are large relative to associated margins of error, and point to possibly significant governance trends for these countries.

The rest of this paper proceeds as follows. In the following section, we describe the updated governance database on which the 2000/01 indicators are based. In Section 3 we briefly review the concepts of governance corresponding to our six aggregate indicators, and the methodology used to construct them. Section 4 describes the levels and changes over time in our new estimates of governance. Section 5 concludes.

2. An Expanded Governance Database

In this section we describe the expanded set of measures of governance we have used to construct our six composite governance indicators for 2000/01. In this round, we rely on 194 different measures drawn from 17 different sources of subjective governance data constructed by 15 different organizations, as listed in Table 1. These sources include international organizations, political and business risk rating agencies, think tanks, and non-governmental organizations. Four of these sources are included in the 2000/01 index for the first time, and the remaining are updates of sources included in the 1997/98 indicators.¹ In this section, we provide an overview of some of the key features of these sources. Appendix 1 presents a detailed description of each of these sources.

¹ Two of the sources we refer to as “updates of existing sources” are in fact new surveys which included questions similar to those in their previous incarnations. These are the World Bank’s World Business Environment Survey which is a follow-up in the 1997 World Development Report Survey, and the Gallup Millenium Survey which we treat as a follow-up of the Gallup 50th Anniversary Survey included in our previous paper. There is also some overlap between sources. A portion of the World Bank’s Business and Enterprise Environment Survey (BPS, see <http://www.worldbank.org/wbi/governance/beepsinteractive.htm>) was used in the World Business Environment Survey, and we refer to the former as a distinct source only when we use questions that appeared only in the former. Also, in 1997 we used data from the Global Competitiveness Survey for Africa as a separate source. In 2000, with the exception of the questions on state capture for transition economies, its questionnaire coincided with that of the World Business Environment Survey, and we include it in the latter source. Finally, one source we used in 1997/98 is no longer published (Central European Economic Review), and so we are unable to update this source. Note also that the cutoff date for the most recent source used in constructing these indicators was August 2001.

As in our previous work, we continue to distinguish sources according to (1) whether they are *polls* of experts, or *surveys* of businesspeople or citizens in general, and (2) the extent to which the sample of countries included in the sources is *representative* of the world as a whole. In the 1997/98 version of the governance database, our sources consisted of eight polls of experts and seven surveys, and five of our sources were classified as representative. In the 2000/01 version, we have added two new surveys (the World Bank's Business Environment and Enterprise Performance Survey of firms in transition economies (BPS), and Latinobarometro (LBO), a private survey conducted in 17 Latin American countries), and two new polls of experts (the Columbia University State Capacity Study (CUD) covering 109 countries worldwide, and the PriceWaterhouseCoopers Opacity Index (PWC) covering 35 countries).

The advantages and disadvantages of polls of experts relative to surveys of market participants are well-known, and are discussed in our previous paper (KKZ 1999b). Briefly, the choice among these two types of governance data involves tradeoffs in terms of cross-country comparability versus first-hand knowledge of local conditions. Polls of experts in general are explicitly designed to provide comparable results across countries, through elaborate benchmarking procedures. However, their reliability depends greatly on the ability of the small group of experts involved to provide objective and accurate assessments of the governance dimensions being measured. In contrast, surveys typically draw on the responses of large numbers of local respondents with direct first-hand knowledge of local conditions. However, to the extent that ostensibly identical survey questions are interpreted differently by respondents with different cultural and/or socioeconomic backgrounds, it can be difficult to make cross-country comparisons using survey responses.²

Sources of governance data also vary with respect to the sample of countries they cover. A number of sources cover a very large sample of developed and developing countries, while others cover very narrowly-focused samples of countries. Also, many of the poorest and/or smallest countries in the world tend not to be covered by many commercially-oriented polls because they are relatively unattractive to foreign investors.

² For example, it is easy to see how responses to a question on the prevalence of "improper practices" can be affected by country-specific perceptions of what such practices might be. On various approaches to address differences in country-specific perceptions, see Hellman et. al. (2000) and Kaufmann and Wei (1999).

Since there is a strong positive association across countries between governance and per capita incomes, this difference between sources makes it difficult to compare indicators from sources which cover sets of countries with very different income levels. Similarly, there may be regional differences in governance which hamper comparisons across sources. For example, it is not clear how to compare a governance rating based only on transition economies with one based on a broad set of countries. As discussed in a previous paper (KKZ 1999a), the methodology we use to construct aggregate governance indicators takes these differences in country coverage into account as the data from individual sources are transformed into common units for aggregation across sources.

Although several of the sources we use have somewhat expanded their country coverage, this does not alter our previous classification of sources as representative and non-representative in the earlier version of the indicators. We use the same criteria of representativeness according to geographical location and income levels in order to identify one of our new sources as representative (CUD), and the remainder as non-representative (PWC, LBO, and BPS), for a total of seven representative sources and ten non-representative sources.

3. Methodology

In this section, summarizing our work in KKZ (1999a,b) we first describe how we organize the available governance data described above into six clusters corresponding to six basic aspects of governance, and describe how we combine these indicators into aggregate governance indicators.

Governance Clusters

We construct the same six aggregate governance indicators as in our previous work, motivated by the same definition of governance that we used before. In KKZ 1999b, we defined governance as the traditions and institutions by which authority in a country is exercised. This includes (1) the process by which governments are selected, monitored and replaced, (2) the capacity of the government to effectively formulate and implement sound policies, and (3) the respect of citizens and the state for the institutions

that govern economic and social interactions among them. We stress at the outset that the classification of indicators into clusters corresponding to this definition of governance is not intended to be definitive. Rather, it reflects our own views of what constitutes a useful and interesting organization of the data that is consistent with prevailing notions of governance.

The first two governance clusters are intended to capture the first part of our definition of governance: the process by which those in authority are selected and replaced. We refer to the first of these as “Voice and Accountability”, and include in it a number of indicators measuring various aspects of the political process, civil liberties and political rights. These indicators measure the extent to which citizens of a country are able to participate in the selection of governments. We also include in this category indicators measuring the independence of the media, which serves an important role in holding monitoring those in authority and holding them accountable for their actions. The second governance cluster is labeled “Political Stability”. In this index we combine several indicators which measure perceptions of the likelihood that the government in power will be destabilized or overthrown by possibly unconstitutional and/or violent means, including terrorism. This index captures the idea that the quality of governance in a country is compromised by the likelihood of wrenching changes in government, which not only has a direct effect on the continuity of policies, but also at a deeper level undermines the ability of all citizens to peacefully select and replace those in power.

The next two clusters summarize various indicators of the ability of the government to formulate and implement sound policies. In “Government Effectiveness” we combine perceptions of the quality of public service provision, the quality of the bureaucracy, the competence of civil servants, the independence of the civil service from political pressures, and the credibility of the government’s commitment to policies into a single grouping. The main focus of this index is on “inputs” required for the government to be able to produce and implement good policies and deliver public goods. The second cluster, which we refer to as “Regulatory Quality”, is more focused on the policies themselves. It includes measures of the incidence of market-unfriendly policies such as price controls or inadequate bank supervision, as well as perceptions of the burdens imposed by excessive regulation in areas such as foreign trade and business development.

The last two clusters summarize in broad terms the respect of citizens and the state for the institutions which govern their interactions. In “Rule of Law” we include several indicators which measure the extent to which agents have confidence in and abide by the rules of society. These include perceptions of the incidence of both violent and non-violent crime, the effectiveness and predictability of the judiciary, and the enforceability of contracts. Together, these indicators measure the success of a society in developing an environment in which fair and predictable rules form the basis for economic and social interactions. The final cluster, which we refer to as “Control of Corruption”, measures perceptions of corruption, conventionally defined as the exercise of public power for private gain. Despite this straightforward focus, the particular aspect of corruption measured by the various sources differs somewhat, ranging from the frequency of “additional payments to get things done,” to the effects of corruption on the business environment, to measuring “grand corruption” in the political arena or in the tendency of elite forms to engage in “state capture”. The presence of corruption is often a manifestation of a lack of respect of both the corrupter (typically a private citizen or firm) and the corrupted (typically a public official) for the rules which govern their interactions, and hence represents a failure of governance according to our definition.

Aggregating Governance Indicators

Implicit in our organization of the data is the view that, within each cluster, each of these indicators measures a similar underlying basic concept of governance. Given this view, there are considerable benefits from combining these related indicators into an aggregate governance indicator for each cluster. First, the aggregate indicators span a much larger set of countries than any individual source, permitting comparisons of governance across a broader set of countries than would be possible using any single source. Second, aggregate indicators can provide more precise measures of governance than individual indicators. Third, it is possible to construct quantitative measures of the precision of both the aggregate governance estimates for each country, as well as their components. This allows formal testing of hypotheses regarding cross-country differences in governance.

For each of these clusters, we combine the component indicators into an aggregate governance indicator using the same methodology used to calculate our first

set of indicators, as documented in KKZ (1999a). We use an unobserved components model which expresses the observed data in each cluster as a linear function of the unobserved common component of governance, plus a disturbance term capturing perception errors and/or sampling variation in each indicator. In particular, we assume that we can write the observed score of country j on indicator k , $y(j,k)$, as a linear function of unobserved governance, $g(j)$, and a disturbance term, $\varepsilon(j,k)$, as follows:

$$(1) \quad y(j,k) = \alpha(k) + \beta(k) \cdot (g(j) + \varepsilon(j,k))$$

where $\alpha(k)$ and $\beta(k)$ are unknown parameters which map unobserved governance $g(j)$ into the observed data $y(j,k)$. As a choice of units, we assume that $g(j)$ is a random variable with mean zero and variance one. We assume that the error term has zero mean and a variance is the same across countries, but differs across indicators, i.e. $E[\varepsilon(j,k)^2] = \sigma_\varepsilon^2(k)$.

Given estimates of the parameters of the model, $\alpha(k)$, $\beta(k)$, and $\sigma(k)$, we can compute estimates of governance for each country, as well as measures of the precision of these estimates.³ Formally, the estimate of governance for a country produced by the unobserved components model is the mean of the distribution of unobserved governance conditional on the $K(j)$ observed data points for that country. This conditional mean is the following weighted average of appropriately-rescaled scores of each of the component indicators:

$$(2) \quad E[g(j) | y(j,1), \dots, y(j, K(j))] = \sum_{k=1}^{K(j)} w(k) \cdot \frac{y(j,k) - \alpha(k)}{\beta(k)}$$

where the weights applied to each source k , $w(k) = \frac{\sigma_\varepsilon(k)^{-2}}{1 + \sum_{k=1}^{K(j)} \sigma_\varepsilon(k)^{-2}}$, are inversely

proportional to the variance of the error term of that source. We also report the standard

³ Estimation of this model requires some non-standard techniques to take into account the likely differences in the unobserved distribution of governance across the different samples of countries covered by representative and non-representative sources. These are documented in detail in KKZ (1999a).

deviation of this conditional distribution as an indicator of the confidence we can have in this estimate, which is:

$$(3) \quad SD[g(j) | y(j,1), \dots, y(j, K(j))] = \left(1 + \sum_{k=1}^{K(j)} \sigma_{\varepsilon}(k)^{-2} \right)^{-\frac{1}{2}}.$$

This standard deviation is declining in the number of individual indicators in which a particular country appears, and is increasing in the variance of the disturbance term on each of these indicators.

The assumptions of the unobserved components model ensure that the distribution of governance in each country is normal, conditional on the data for that country. Therefore, these conditional means and standard deviations for each country have a natural interpretation. For example, a useful interpretation of the reported estimates and standard deviations for each country is to note that there is a 90% probability that the “true” level of governance in a country is in an interval of plus or minus 1.64 times the reported standard deviation centered on the point estimate itself. We refer to such a range as a 90% confidence interval around the estimate of governance for a country.⁴

Our choice of units for governance ensures that the estimates of governance have a mean of zero, a standard deviation of one, and range from around –2.5 to around 2.5. Moreover, since we adopt the same choice of units for governance in each period, the indicators are not informative about a worldwide average trend in governance. However, they are informative about how countries’ relative positions change over time, as discussed further below. The aggregate indicators are oriented such that higher values correspond to better outcomes.

⁴ This is a slight abuse of terminology, as these are not confidence intervals in the usual frequentist sense of a stochastically varying interval centered around a fixed unknown parameter. Rather, we treat governance as a random variable, and the 90% confidence interval is simply the 5th and 95th percentiles of the conditional distribution of governance given the observed data.

4. Results

In this section we first describe the updated governance indicators for 2000/01, and then discuss changes in these governance indicators relative to the 1997/98 version of the indicators.

Cross-Country Differences in Governance in 2000/01

Table 2 reports the point estimates of governance, the estimated standard errors, and the number of sources by country, for each of six governance indicators, for 2000/01. For reference, the corresponding information for the 1997/98 indicators are reported as well in the same table. Table 3 summarizes the number of countries and sources included in each indicator. For our indicators, the addition of new sources of governance data results in only a small increase in the number of countries covered.

As emphasized in our previous work, we find that the six dimensions of governance are not very precisely measured, in the sense that the measured standard deviations are large relative to the units in which governance is measured. We illustrate this point in Figure 1. In each panel, we order countries in ascending order according to their point estimates of governance on the horizontal axis, and on the vertical axis we plot the estimate of governance and the associated 90% confidence interval described above. The size of these confidence intervals varies across countries, as different countries appear in different numbers of sources with different variances. The resulting confidence intervals are large relative to the units in which governance is measured. To emphasize this key point, the horizontal lines in Figure 1 delineate the quartiles of the distribution of governance estimates. Relatively few countries have 90% confidence intervals that lie entirely within a given quartile.

From these figures, it is also clear that many of the small differences in estimates of governance across countries are not likely to be statistically significant, mirroring the reality that it is in fact difficult to distinguish small differences among countries using this type of data on governance. For many applications, it is therefore more useful to focus on the range of possible governance for each country as summarized in the 90% confidence intervals shown in Figure 1. For two countries at opposite ends of the scale

of governance, whose 90% confidence intervals do not overlap, it is clear that there are in fact significant differences in governance between these two countries. For pairs of countries that are closer together and whose 90% confidence intervals overlap, one should be much more circumspect about the significance of estimated differences in governance between two such countries.

An important consequence of this imprecision is that it is difficult to use only the point estimates of governance to sort countries into even relatively broad governance categories. Rather, it seems more appropriate to identify groups of countries with extreme governance outcomes by explicitly taking into account not only the point estimates of governance, but also the substantial margins of error associated with individual governance scores. For example, it seems more plausible to identify countries with clear governance failures as those for which the associated 90% confidence interval lies entirely within the bottom third of the point estimates of governance, and countries with a clear absence of governance problems as those for which the associated 90% confidence interval lies entirely within the top third of the point estimates of governance. Table 4 reports the number of countries falling into each of these groups, and the fraction of all countries that they represent, for each of the six measures of governance. This table shows that slightly under half of the countries with point estimates of governance in the bottom third of countries also have 90% confidence intervals that fall entirely within this bottom tercile, for each of the six governance indicators. In addition, somewhat more than half of the countries in the top tercile also have 90% confidence intervals entirely within the top tercile. The fraction of countries significantly in the top tercile is slightly larger than that in the bottom quintile because these countries tend to appear in more of our sources of governance data, and so typically have smaller standard errors⁵.

Despite the imprecision of these aggregate indicators, we argue that they are still useful, for several reasons. First, since each of these aggregate indicators spans a much larger set of countries than any individual indicator, it is possible to make

⁵ Another way of segmenting the data also suggests that identifying groups of countries with extreme governance outcomes can be statistically meaningful: over 85% of the countries in the bottom quartile have 90% confidence intervals entirely within the bottom 40 percent of the distribution of governance estimates; for the top quartile the share of countries (in the top 40 percentile) exceed 95 percent.

comparisons – however imprecise -- across a much larger set of countries than would be possible with any single indicator.⁶ Second, although imprecise, each aggregate indicator provides a more precise signal of its corresponding broader governance concept than do any of its component indicators, and moreover provides a convenient and consistent summary of the available evidence. Third, the measures of precision for each country are useful because they enable formal statistical tests of cross-country differences in governance instead of arbitrary comparisons. Fourth, and finally, it is worth noting explicitly that the measurement error we have documented in these governance indicators need not make them unsuitable for cross-country econometric analysis. Rather, one possible advantage of these indicators is that one can use information in the estimates of the precision of each aggregate to quantify the effect of measurement error in regression analyses that use governance indicators as right-hand side variables.⁷

Finally, Table 5 reports our point estimates of the parameters of the unobserved components model, for each of the six governance indicators in 1997/98 and in 2000/01. The most interesting of these are the estimates of the standard deviation of the error term of the individual sources, since as discussed above the weights used to combine individual sources into aggregate indicators are inversely proportional to the squares of these standard deviations. Figure 2 presents a visual summary of how the weights applied to individual sources vary across sources, indicators, and time periods. For now, we simply note that there are some non-trivial differences between the 1997/98 and the 2000/01 exercise in how individual sources are weighted, reflecting changes over time in the estimated precision of such individual sources. In the next subsection, we discuss more systematically the contribution of these changes in weights to changes over time in the aggregate indicators.

⁶ See for example Knack and Azfar (2000) who document the importance of sample size for conclusions about the determinants of corruption.

⁷ See KKZ1999b for regression analysis of the effects of these governance indicators on socio-economic variables, and a discussion of the consequences of measurement error.

Changes in Governance 1997/98 to 2000/01

We now turn to changes over time within countries in our estimates of the six dimensions of governance. To give a visual perspective on these changes, Figure 1 also indicates the score of each country on the corresponding 1997/98 indicator, as a heavy dot. Two observations on these figures are noteworthy. First, the correlations across countries between the 1997/98 and 2000/01 indicators are quite high, as evidenced by the strong upward trend in the heavy dots moving from right to left across countries sorted by their 2000/01 scores. The last column of Table 3 reports these correlations, which are all greater than 0.9. Second, despite these strong correlations reflecting a high degree of persistence in perceptions of countries' relative governance quality, there are substantial changes for some countries. By substantial, we mean that the change in a country's estimate of governance between 1997/98 and 2000/01 is large relative to its margin of error for 2000/01. While the exact definition of what constitutes "large" is of course arbitrary, one standard is to look at countries for which the 1997/98 estimate of governance falls outside the 90% confidence interval for the 2000/01 score. In Figure 1, countries with significant changes in estimates of governance are depicted by those dots (1997/98 values) located outside the 90% confidence range for the 2000/01 estimates.

Consulting the 1997/98 and 2000/01 scores and corresponding standard errors in Table 2, we find a number of substantial changes for each governance cluster. For instance, Croatia, Bosnia, Nigeria, Indonesia, Peru, Slovakia and Ghana are some of the countries exhibiting significant improvements in Voice and Accountability during the period, while by contrast the data suggests that, *inter alia*, Ivory Coast, Venezuela, Congo, Belarus and Pakistan have deteriorated in this governance dimension. Improved regulatory regimes are apparent in countries like Singapore, Azerbaijan, Albania, Thailand, Botswana and Estonia, in contrast with countries such as Zimbabwe, Indonesia, Belarus, Democratic Republic of Congo (DRC, ex- Zaire), Argentina, Russia and Venezuela. On Government Effectiveness, countries like Estonia, Tunisia, Botswana, Bulgaria, Mauritius, Namibia, Dominican Republic, and Ireland are shown to be improving in their government effectiveness dimension, contrasting with countries like Sierra Leone, Peru, Mali, Ivory Coast and Ecuador.

For Political Stability, Brazil, Haiti, Libya, Algeria and Nicaragua illustrate improvements, in contrast with countries like Ivory Coast and Zimbabwe. On Rule of Law, Belgium, Bosnia, Mozambique, Estonia, Uruguay, Latvia and Slovakia exemplify improvements, contrasting the evidence on a deteriorating rule of law indicator in countries like Zimbabwe, Moldova, Malaysia, and Philippines. Finally, on control of corruption, improvements are exemplified by Namibia, Croatia, Dominican Republic, Chile and Costa Rica, in contrast with countries like Zimbabwe, Kenya, Russia, Indonesia, and the Ivory Coast, which appear to have experienced some deterioration during the period (up to mid-2001).⁸

From these examples, it is apparent that changes in the various governance components do tend to move together on average, i.e. there is a positive correlation across changes for a country across components. A country like Zimbabwe, with across-the-board deterioration in governance, illustrates such a correlation across indicators. Yet for the worldwide country sample such correlation, while positive, is far from perfect, because for many countries the various governance indicators do not move in tandem: a country can exhibit improvement in one dimension and deterioration in another. For instance, Indonesia exhibits major improvement in Voice, while their Regulatory Framework, Political Stability, and Control of Corruption have deteriorated, while in Nigeria Voice has improved but Political Stability has worsened.⁹

What accounts for the observed changes in estimates of governance for individual countries between 1997/98 and 2000/01? Mechanically, changes over time in the governance indicators are due to a combination of three factors: (i) changes in governance perceptions as reported by the individual underlying sources; (ii) changes in

⁸ In reviewing which countries have undergone a significant change over the period, we note that some large positive changes take place from an initially low level, and vice-versa regarding some large negative changes. Any in-depth trend analysis for a country ought to also take into account its initial level estimates.

⁹ It is worth noting that while overall the data appear to make sense when confronted by what we know about the level and trends in governance in most settings, at the same time it ought to be noted that not *all* the changes that the data exhibits would necessarily concord with one's priors. In part this is a reminder that oddities in the data can take place even with *aggregate* indicators, which in turn is a reminder of the potential pitfalls of relying excessively on any *individual* indicator. It is also important to note that the aggregate indicators are obtained on the basis of data collected in 2000/01, with the cutoff having been in August 2001. Thus, while the data is relatively recent, these indicators do not capture the most recent developments in governance.

the weights the aggregation procedure assigns to the individual underlying sources; and (iii) changes in the set of underlying sources used to construct the aggregate governance indicators. We now provide a systematic accounting of the relative importance of each of these three factors. To do so, note that we can write the change between period t and period t-1 in country j's score on each of our governance indicators as:

$$(4) \quad \hat{g}_{j,t} - \hat{g}_{j,t-1} = [\hat{g}_{j,t}^B - \hat{g}_{j,t-1}^B] + [\hat{g}_{j,t} - \hat{g}_{j,t}^B - (\hat{g}_{j,t-1} - \hat{g}_{j,t-1}^B)]$$

where $\hat{g}_{j,t}$ denotes the estimate of governance in country j in period t, and $\hat{g}_{j,t}^B$ denotes the estimate of governance in country j in period t based using data only from a "balanced" set of sources and countries for which data is available in both periods. The first term in square brackets on the right-hand side of Equation (4) therefore represents the change over time in estimated governance using only data from the same countries and same sources in both periods. The second term represents the contribution of changes in underlying sources and country coverage to the change in the governance indicator, i.e. item (iii) above, which consists of the change in the *difference* between country j's score using all available data and using only data available in both periods.

The first term in Equation (4) above can be further decomposed to isolate the effect of changes over time in the weights assigned by the aggregation procedure, as follows:

$$(5) \quad \hat{g}_{j,t}^B - \hat{g}_{j,t-1}^B = [\hat{g}_{j,t}^{B,O} - \hat{g}_{j,t-1}^B] + [\hat{g}_{j,t}^B - \hat{g}_{j,t}^{B,O}]$$

where $\hat{g}_{j,t}^{B,O}$ denotes an estimate of governance in period t using only the "balanced" data as before, but also using the "old" weights used in the base period to aggregate sources. The first term on the right-hand side of Equation (5) therefore reflects the change in governance estimates attributable solely to changes in the country's score on each of the underlying individual indicators, i.e. item (i) above, while the second term reflects the change due to the re-weighting of the individual sources, i.e. item (ii) above.

Clearly the contribution of each of these three factors to changes in estimates of governance over time will be different for each country. However, we can summarize the overall importance of each of these three considerations with the help of a simple variance decomposition. In the first column of Table 6, we report the standard deviation across countries of changes in our governance indicators, for each of the six dimensions of governance we consider. In the second column, we report the share of the variance of changes in governance that is attributable to the first term in Equation (4) above, i.e. the fraction of the variance of changes over time due to changes in the “balanced” indicator which uses only data from the same sources and countries in both periods.¹⁰ In the third column, we report the share of the variance of changes in the “balanced” governance indicators that is due to the first term in Equation (5) above, i.e. the fraction of the variance of changes over time in the “balanced” indicator due only to changes over time in the assessments of individual sources. The fourth column of Table 6 reports the product of columns 2 and 3, which can be interpreted as the fraction of the variance of changes in the overall governance indicator that is due only to changes over time in the assessments of individual sources.

For most of our indicators, we find that over three-quarters of the variance in changes in scores over time can be attributed to changes in scores on individual sources (with the exception of Rule of Law (0.57), and Control of Corruption (0.43). For these last two indicators, changes in weights and the addition of new sources accounts for a substantial fraction of the variation in changes in governance over time.

¹⁰ In this table, we follow the convention of assigning half of the covariance between the two terms to the share of the variance attributable to the first term (see Klenow and Rodriguez (1999) for a justification of this convention). A disadvantage of this rule of thumb is that it is possible for the fraction of the variance attributable to the first term to exceed one. Note also that the covariance terms in each case are typically an order of magnitude smaller than the variance terms, so the precise convention for assigning the covariance matters little for the overall conclusions.

Conclusions

In this short note, we have constructed aggregate governance indicators for six dimensions of governance, spanning 175 countries in 2000/01. These new indicators update our previous governance indicators for 1997/98. By drawing on a larger set of sources, we have been able to slightly expand country coverage and slightly improve the precision of the aggregate indicators. Nevertheless, we find that – as emphasized in our previous work – margins of error associated with estimates of governance remain substantial. This points to the importance of caution in making comparisons across countries and over time along these various dimensions of governance. Nevertheless, we do find that the indicators are sufficiently informative that we can confidently identify broad groupings of countries with extremes of governance. We also find that for a number of countries, changes in governance perceptions even over the relatively short four-year period we consider are large relative to measures of imprecision, pointing to possibly significant governance trends in these countries. This in turn opens the possibility of future cross-country empirical work to understand the causes and consequences of these changes in governance over time.

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Note: Descriptions of the publications in which our various sources of governance data appear are provided in the corresponding Appendix tables.

Table 1: Sources of Governance Data, 2000/01

<u>Source</u>	<u>Publication</u>	<u>Code</u>	<u>Type</u>	<u>Country Coverage</u>	<u>Repre- sentative</u>	<u>New in 2000/01</u>
Business Environment Risk Intelligence	Business Risk Service	BRI	Poll	50		
Columbia University	State Capacity Project	CUD	Poll	109	x	x
Economist Intelligence Unit	Country Risk Service	EIU	Poll	115	x	
European Bank for Reconstruction and Redevelopment	Transition Report	EBR	Poll	26		
Freedom House	Nations in Transition	FHT	Poll	27		
Freedom House	Freedom in the World	FRH	Poll	192	x	
Gallup International	Gallup Millennium Survey	GMS	Survey	60		
Heritage Foundation/Wallstreet Journal	Economic Freedom Index	HWJ	Poll	161	x	
Institute for Management and Development	World Competitiveness Yearbook	WCY	Survey	49		
Latinobarometro	Latinobarometro Surveys	LBO	Survey	17		x
Political Economic Risk Consultancy	Asia Intelligence	PRC	Survey	14		
Political Risk Services	International Country Risk Guide	PRS	Poll	140	x	
PriceWaterhouseCoopers	Opacity Index	PWC	Survey	35		x
Standard and Poor's DRI McGraw-Hill	Country Risk Review	DRI	Poll	111	x	
World Bank	Business Enterprise Environment Survey	BPS	Survey	18		x
World Bank	World Business Environment Survey	WBS	Survey	81	x	
World Economic Forum	Global Competitiveness Report	GCS	Survey	75		

Table 2: Estimates of Governance

		Voice and Accountability						Political Stability						Government Effectiveness					
		2000/01			1997/98			2000/01			1997/98			2000/01			1997/98		
		Est.	S.E.	N	Est.	S.E.	N	Est.	S.E.	N	Est.	S.E.	N	Est.	S.E.	N	Est.	S.E.	N
AFG	AFGHANISTAN	-1.64	0.39	1	-1.62	0.36	1	-2.06	0.49	1	..	..	..	-1.23	0.43	1	..	..	..
ALB	ALBANIA	0.01	0.17	5	-0.13	0.21	4	-0.60	0.37	4	-1.00	0.25	4	-0.89	0.25	5	-0.65	0.29	4
DZA	ALGERIA	-1.19	0.24	4	-1.31	0.25	3	-1.27	0.28	4	-2.42	0.30	3	-0.81	0.24	4	-1.09	0.32	3
AGO	ANGOLA	-1.26	0.24	4	-1.00	0.25	3	-1.98	0.28	4	-1.78	0.28	4	-1.31	0.24	4	-1.39	0.24	5
ARG	ARGENTINA	0.57	0.23	7	0.49	0.25	4	0.55	0.22	9	0.51	0.26	5	0.18	0.18	10	0.26	0.25	6
ARM	ARMENIA	-0.22	0.17	5	-0.18	0.21	4	-0.84	0.41	4	-0.45	0.25	4	-1.03	0.27	5	-0.65	0.29	4
AUS	AUSTRALIA	1.70	0.24	5	1.63	0.25	4	1.26	0.23	7	1.18	0.26	5	1.58	0.19	7	1.46	0.25	6
AUT	AUSTRIA	1.34	0.24	5	1.45	0.25	5	1.27	0.23	7	1.38	0.25	6	1.51	0.20	7	1.22	0.23	7
AZE	AZERBAIJAN	-0.70	0.16	6	-0.81	0.19	5	-0.70	0.27	5	-0.36	0.23	5	-0.95	0.21	6	-0.83	0.24	5
BHS	BAHAMAS	1.15	0.28	2	1.13	0.29	2	0.68	0.65	1	0.37	0.41	1	1.04	0.53	1	0.47	0.77	1
BHR	BAHRAIN	-0.96	0.24	4	-1.04	0.25	3	-0.04	0.28	4	-0.08	0.30	3	0.62	0.24	4	0.24	0.32	3
BGD	BANGLADESH	-0.20	0.24	5	-0.01	0.25	3	-0.57	0.27	5	-0.40	0.30	3	-0.54	0.23	5	-0.56	0.32	3
BRB	BARBADOS	1.27	0.39	1	1.49	0.36	1	..	..	..	..	..	..	..	..	..	..	..	..
BLR	BELARUS	-1.04	0.17	5	-0.78	0.21	4	0.04	0.37	5	-0.37	0.25	4	-0.99	0.25	6	-0.66	0.29	4
BEL	BELGIUM	1.24	0.24	5	1.41	0.25	4	0.87	0.23	7	0.82	0.26	5	1.29	0.20	7	0.88	0.25	6
BLZ	BELIZE	1.01	0.39	2	1.23	0.36	1	0.32	0.90	1	..	..	..	0.55	0.70	1	..	..	..
BEN	BENIN	0.47	0.36	2	0.69	0.35	2	-0.72	0.63	1	-0.94	0.66	1	0.12	0.52	1	-0.07	0.56	1
BTN	BHUTAN	-1.27	0.39	1	-1.25	0.36	1	..	..	..	..	..	..	..	..	..	..	..	..
BOL	BOLIVIA	0.27	0.24	5	0.39	0.25	4	-0.61	0.28	6	-0.14	0.28	4	-0.47	0.22	6	-0.22	0.26	5
BIH	BOSNIA-HERZEGOVINA	-0.29	0.19	4	-1.00	0.23	2	-0.01	0.84	2	-1.16	0.39	1	-0.92	0.39	3	-1.11	0.41	1
BWA	BOTSWANA	0.80	0.24	5	0.78	0.25	3	0.71	0.27	5	0.74	0.28	4	0.83	0.23	5	0.22	0.26	4
BRA	BRAZIL	0.53	0.24	6	0.58	0.25	5	0.47	0.22	8	-0.32	0.25	6	-0.27	0.18	9	-0.22	0.23	7
BRN	BRUNEI	-0.93	0.28	2	-0.92	0.29	2	0.86	0.65	1	1.32	0.41	1	0.88	0.53	1	0.01	0.77	1
BGR	BULGARIA	0.59	0.16	7	0.47	0.19	5	0.37	0.26	7	0.43	0.23	5	-0.26	0.19	8	-0.81	0.24	5
BFA	BURKINA FASO	-0.26	0.27	3	-0.21	0.29	2	-0.54	0.51	2	-0.52	0.36	2	-0.02	0.40	2	-0.06	0.32	3
BDI	BURUNDI	-1.35	0.36	2	-1.29	0.36	1	-1.54	0.54	2	..	..	..	-1.14	0.37	2	..	..	..
KHM	CAMBODIA	-0.77	0.39	2	-0.91	0.36	1	-0.13	0.90	1	..	..	..	0.34	0.70	1	..	..	..
CMR	CAMEROON	-0.82	0.24	5	-0.70	0.25	4	-0.13	0.29	5	-0.72	0.27	5	-0.40	0.25	5	-0.64	0.24	5
CAN	CANADA	1.33	0.23	7	1.39	0.25	5	1.24	0.22	9	1.03	0.25	6	1.71	0.19	9	1.72	0.23	7
CPV	CAPE VERDE	0.92	0.39	1	0.99	0.36	1	..	..	..	..	..	..	..	..	..	..	..	..
CAF	CENTRAL AFRICAN REPUBLIC	-0.59	0.39	1	-0.05	0.36	1	..	..	..	..	..	..	..	..	..	-0.75	0.51	1
TCD	CHAD	-0.88	0.39	1	-0.85	0.35	2	..	..	..	-0.74	0.66	1	..	..	..	-0.71	0.56	1
CHL	CHILE	0.63	0.23	7	0.62	0.25	4	0.87	0.22	9	0.45	0.26	5	1.13	0.18	10	1.17	0.25	6
CHN	CHINA	-1.11	0.24	6	-1.29	0.25	5	0.39	0.22	8	0.48	0.26	5	0.14	0.18	9	0.02	0.25	6
COL	COLOMBIA	-0.41	0.23	7	-0.15	0.25	5	-1.36	0.22	9	-1.29	0.25	6	-0.38	0.18	10	-0.06	0.23	7
COM	COMOROS	-0.35	0.39	1	0.06	0.36	1	..	..	..	..	..	..	..	..	..	..	..	..
COG	CONGO	-1.38	0.27	3	-0.77	0.29	3	-1.36	0.51	2	-1.83	0.37	2	-1.58	0.40	2	-0.58	0.39	3
CRI	COSTA RICA	1.37	0.24	5	1.35	0.25	4	1.08	0.26	6	0.91	0.27	5	0.74	0.21	6	0.55	0.29	4
CIV	IVORY COAST	-1.19	0.25	4	-0.57	0.25	4	-0.95	0.29	4	-0.14	0.27	5	-0.81	0.25	4	-0.18	0.24	5
HRV	CROATIA	0.48	0.16	6	-0.23	0.19	4	0.18	0.29	5	0.41	0.24	4	0.10	0.22	6	0.15	0.26	4
CUB	CUBA	-1.49	0.25	3	-1.46	0.25	3	0.07	0.28	4	0.19	0.30	3	-0.22	0.24	4	-0.50	0.32	3
CYP	CYPRUS	1.28	0.25	3	1.11	0.25	3	0.48	0.29	3	0.38	0.30	3	0.91	0.26	3	1.04	0.32	3
CZE	CZECH REPUBLIC	1.04	0.16	7	1.20	0.19	6	0.74	0.23	8	0.81	0.22	7	0.58	0.18	10	0.59	0.21	8
DNK	DENMARK	1.60	0.23	6	1.63	0.25	4	1.34	0.23	8	1.29	0.26	5	1.62	0.19	8	1.72	0.25	6
DJI	DJIBOUTI	-0.44	0.39	1	-0.60	0.36	1	..	..	..	..	..	..	..	..	..	..	..	..
DOM	DOMINICAN REPUBLIC	0.42	0.24	5	-0.08	0.25	3	0.46	0.28	6	0.12	0.34	2	-0.24	0.22	6	-0.83	0.37	2
ECU	ECUADOR	-0.14	0.24	5	0.27	0.25	4	-0.80	0.25	7	-0.47	0.26	5	-0.94	0.20	8	-0.56	0.27	5
EGY	EGYPT	-0.65	0.24	5	-0.67	0.25	3	0.21	0.24	7	-0.07	0.25	6	0.27	0.19	8	-0.14	0.22	6
SLV	EL SALVADOR	0.21	0.24	5	-0.10	0.25	3	0.62	0.30	5	-0.02	0.32	3	-0.25	0.23	5	-0.26	0.37	2
GNQ	EQUATORIAL GUINEA	-1.30	0.39	1	-1.39	0.36	1	..	..	..	..	..	..	..	..	..	..	..	..
ERI	ERITREA	-1.04	0.36	2	-0.59	0.36	1	-0.38	0.63	1	..	..	..	..	..	..	..	..	..
EST	ESTONIA	0.94	0.16	8	0.86	0.19	5	0.73	0.24	8	0.79	0.23	5	0.86	0.18	9	0.26	0.24	5
ETH	ETHIOPIA	-0.85	0.27	4	-0.50	0.29	2	-0.55	0.49	3	0.14	0.36	2	-1.01	0.37	3	-0.15	0.32	3
FJI	FIJI	0.05	0.36	2	0.01	0.35	2	0.39	0.63	1	0.01	0.66	1	0.38	0.52	1	0.63	0.56	1
FIN	FINLAND	1.69	0.23	6	1.63	0.25	4	1.61	0.23	8	1.51	0.26	5	1.67	0.19	8	1.63	0.25	6
FRA	FRANCE	1.11	0.23	7	1.15	0.25	5	1.04	0.22	9	0.65	0.25	6	1.24	0.19	8	1.28	0.23	7
GAB	GABON	-0.40	0.24	4	-0.31	0.25	3	-0.44	0.28	4	-0.56	0.34	2	-0.45	0.24	4	-1.13	0.37	2
GMB	GAMBIA	-0.73	0.28	2	-0.97	0.29	2	0.49	0.65	1	0.56	0.41	1	0.41	0.53	1	0.16	0.77	1
GEO	GEORGIA	-0.07	0.19	5	-0.25	0.23	3	-1.00	0.41	4	-0.76	0.31	3	-0.72	0.27	5	-0.51	0.30	3
DEU	GERMANY	1.42	0.23	7	1.46	0.25	5	1.21	0.22	9	1.32	0.25	6	1.67	0.19	8	1.41	0.23	7
GHA	GHANA	0.02	0.24	5	-0.43	0.25	4	-0.11	0.29	5	-0.10	0.27	5	-0.06	0.25	5	-0.29	0.22	6

Note: "Est" refers to the point estimate of governance. "S.E." refers to the standard error. "N" refers to the number of sources in which the country appears. Governance indicators are oriented so that higher values correspond to better outcomes, on a scale from -2.5 to 2.5. These ratings are based on subjective assessments from a variety of sources, are subject to substantial margins of error as indicated, and in no way reflect the official view of the World Bank, its Executive Directors, or the countries they represent.

Table 2: Estimates of Governance, Cont'd

		Voice and Accountability						Political Stability						Government Effectiveness					
		2000/01			1997/98			2000/01			1997/98			2000/01			1997/98		
		Est.	S.E.	N	Est.	S.E.	N	Est.	S.E.	N	Est.	S.E.	N	Est.	S.E.	N	Est.	S.E.	N
GRC	GREECE	1.12	0.24	4	1.05	0.25	4	0.79	0.24	6	0.21	0.26	5	0.65	0.20	7	0.56	0.25	6
GTM	GUATEMALA	-0.33	0.24	5	-0.56	0.25	3	-0.77	0.30	5	-0.75	0.32	3	-0.63	0.22	6	-0.23	0.37	2
GIN	GUINEA	-0.98	0.28	2	-0.87	0.29	3	-0.99	0.65	1	-1.03	0.37	2	0.41	0.53	1	-0.03	0.51	2
GNB	GUINEA-BISSAU	-0.87	0.27	3	-0.45	0.29	3	-1.21	0.51	2	-1.20	0.37	2	-1.48	0.40	2	-0.33	0.51	2
GUY	GUYANA	0.94	0.27	3	1.01	0.29	2	-0.70	0.51	2	-0.20	0.41	1	0.02	0.40	2	0.01	0.77	1
HTI	HAITI	-0.80	0.27	4	-0.71	0.29	2	-0.38	0.49	3	-1.71	0.41	1	-1.32	0.37	3	-1.23	0.77	1
HND	HONDURAS	-0.04	0.24	5	-0.06	0.25	3	0.25	0.30	5	-0.33	0.32	3	-0.58	0.23	5	-0.41	0.37	2
HKG	HONG KONG	-0.33	0.24	5	0.01	0.25	6	1.13	0.25	6	0.92	0.27	5	1.10	0.21	7	1.25	0.25	6
HUN	HUNGARY	1.19	0.16	8	1.22	0.19	6	0.75	0.22	9	1.25	0.22	7	0.60	0.17	11	0.61	0.21	8
ISL	ICELAND	1.53	0.27	4	1.47	0.29	3	1.57	0.40	4	1.25	0.37	2	1.93	0.33	4	1.50	0.41	3
IND	INDIA	0.66	0.24	6	0.36	0.25	6	-0.05	0.22	8	-0.04	0.25	6	-0.17	0.18	9	-0.26	0.23	7
IDN	INDONESIA	-0.40	0.24	6	-1.13	0.25	5	-1.56	0.22	8	-1.29	0.26	5	-0.50	0.18	9	-0.53	0.25	6
IRN	IRAN	-0.36	0.24	4	-0.56	0.25	3	0.02	0.25	5	0.13	0.28	4	-0.21	0.22	5	-0.34	0.29	4
IRQ	IRAQ	-1.93	0.24	4	-1.75	0.25	3	-1.57	0.28	4	-2.24	0.30	3	-1.41	0.24	4	-1.88	0.32	3
IRL	IRELAND	1.57	0.23	6	1.53	0.25	5	1.24	0.23	8	1.43	0.25	6	1.79	0.19	8	1.36	0.23	7
ISR	ISRAEL	0.98	0.24	5	1.06	0.25	4	-0.54	0.24	6	-0.46	0.28	4	0.87	0.20	7	0.69	0.27	5
ITA	ITALY	1.10	0.23	7	1.28	0.25	5	0.82	0.22	9	1.16	0.25	6	0.68	0.18	10	0.77	0.23	7
JAM	JAMAICA	0.78	0.25	3	0.75	0.25	4	0.35	0.33	3	-0.34	0.32	3	-0.30	0.26	3	-0.48	0.33	3
JPN	JAPAN	1.03	0.23	6	1.14	0.28	4	1.20	0.23	8	1.15	0.29	4	0.93	0.19	9	0.84	0.31	5
JOR	JORDAN	0.10	0.24	4	0.15	0.25	4	0.13	0.27	5	-0.06	0.27	5	0.42	0.22	5	0.63	0.26	5
KAZ	KAZAKHSTAN	-0.80	0.16	7	-0.69	0.19	5	0.29	0.25	7	0.22	0.22	6	-0.61	0.19	8	-0.82	0.23	6
KEN	KENYA	-0.68	0.24	5	-0.70	0.25	4	-0.83	0.27	5	-1.10	0.27	5	-0.76	0.22	6	-0.90	0.22	6
PRK	KOREA, NORTH	-1.82	0.28	2	-1.79	0.29	2	0.79	0.51	2	0.37	0.41	1	-1.06	0.40	2	-0.30	0.77	1
KOR	KOREA, SOUTH	0.98	0.23	6	0.91	0.25	6	0.50	0.23	8	0.16	0.25	6	0.44	0.19	9	0.41	0.23	7
KWT	KUWAIT	0.08	0.25	3	0.00	0.25	3	0.64	0.29	3	0.68	0.30	3	0.13	0.26	3	-0.06	0.32	3
KGZ	KYRGYZ REPUBLIC	-0.57	0.19	3	-0.35	0.23	3	-0.32	0.48	2	0.32	0.31	3	-0.61	0.31	3	-0.58	0.30	3
LAO	LAOS	-1.05	0.36	2	-1.05	0.36	1	0.00	0.63	1	..	..	..	-0.39	0.52	1	..	..	..
LVA	LATVIA	0.81	0.16	5	0.75	0.19	5	0.50	0.28	5	0.46	0.23	5	0.22	0.21	6	0.07	0.24	5
LBN	LEBANON	-0.32	0.24	4	-0.40	0.25	3	-0.55	0.28	4	-0.25	0.30	3	-0.02	0.24	4	0.17	0.32	3
LSO	LESOTHO	-0.15	0.39	1	-0.15	0.36	1	..	..	..	-0.82	0.61	1	..	..	..	-0.46	0.33	2
LBR	LIBERIA	-1.04	0.27	3	-0.89	0.29	2	-0.65	0.51	2	-0.95	0.41	1	-0.94	0.40	2	-0.92	0.77	1
LBY	LIBYA	-1.35	0.25	3	-1.35	0.25	3	-0.38	0.29	3	-1.17	0.30	3	-1.12	0.26	3	-1.32	0.32	3
LTU	LITHUANIA	1.00	0.16	7	0.88	0.19	5	0.29	0.26	7	0.35	0.23	5	0.26	0.19	9	0.13	0.24	5
LUX	LUXEMBOURG	1.41	0.27	4	1.49	0.29	3	1.48	0.43	3	1.40	0.37	2	1.86	0.41	3	1.67	0.41	3
MKD	MACEDONIA, FORMER YUGOS	0.03	0.18	4	0.09	0.21	4	-1.45	0.37	2	-0.40	0.31	3	-0.63	0.28	3	-0.58	0.27	3
MDG	MADAGASCAR	0.28	0.27	4	0.31	0.29	3	-0.34	0.49	3	-0.79	0.37	2	-0.35	0.37	3	-0.29	0.39	3
MWI	MALAWI	-0.14	0.24	5	0.06	0.25	4	0.03	0.31	4	0.04	0.29	4	-0.77	0.26	4	-0.62	0.24	5
MYS	MALAYSIA	-0.13	0.23	7	-0.09	0.25	6	0.31	0.22	9	0.55	0.25	6	0.53	0.19	9	0.71	0.23	7
MDV	MALDIVES	-0.81	0.39	1	-0.91	0.36	1	..	..	..	..	..	..	..	..	..	..	..	..
MLI	MALI	0.32	0.27	3	0.42	0.29	3	-0.13	0.51	2	-0.29	0.37	2	-1.44	0.40	2	-0.05	0.51	2
MLT	MALTA	1.43	0.28	2	1.41	0.29	2	1.05	0.65	1	1.32	0.41	1	0.73	0.53	1	0.63	0.77	1
MRT	MAURITANIA	-0.59	0.36	2	-0.97	0.36	1	-0.87	0.63	1	..	..	..	-0.66	0.52	1	..	..	..
MUS	MAURITIUS	1.27	0.29	3	1.01	0.29	3	1.12	0.32	3	1.14	0.39	3	0.76	0.26	3	0.17	0.27	3
MEX	MEXICO	0.12	0.23	7	-0.11	0.25	5	0.06	0.22	9	-0.35	0.25	6	0.28	0.18	10	0.18	0.23	7
MDA	MOLDOVA	0.12	0.16	6	0.11	0.19	5	-0.29	0.27	5	-0.20	0.23	5	-1.10	0.21	6	-0.46	0.24	5
MNG	MONGOLIA	0.73	0.27	3	0.63	0.21	3	0.72	0.51	2	0.37	0.41	1	0.39	0.40	2	0.02	0.39	2
MAR	MOROCCO	-0.23	0.25	3	-0.24	0.25	4	0.16	0.29	3	0.09	0.27	5	0.10	0.26	3	0.27	0.22	6
MOZ	MOZAMBIQUE	-0.22	0.27	3	-0.17	0.29	3	0.20	0.51	2	-0.53	0.34	3	-0.49	0.40	2	-0.33	0.29	4
MMR	MYANMAR	-1.93	0.24	4	-1.75	0.25	3	-1.20	0.28	4	-0.97	0.30	3	-1.25	0.24	4	-1.46	0.32	3
NAM	NAMIBIA	0.32	0.24	5	0.47	0.25	3	-0.52	0.31	4	0.71	0.31	3	0.60	0.26	4	0.04	0.26	4
NPL	NEPAL	-0.06	0.36	2	0.05	0.36	1	-0.26	0.63	1	..	..	..	-1.04	0.52	1	..	..	..
NLD	NETHERLANDS	1.61	0.23	6	1.64	0.25	4	1.48	0.23	8	1.48	0.26	5	1.84	0.19	8	2.03	0.25	6
NZL	NEW ZEALAND	1.59	0.24	5	1.47	0.25	4	1.21	0.24	6	1.42	0.28	4	1.27	0.21	6	1.57	0.27	5
NIC	NICARAGUA	-0.06	0.24	5	0.07	0.25	3	0.31	0.30	5	-0.32	0.32	3	-0.73	0.23	5	-0.55	0.37	2
NER	NIGER	0.11	0.27	3	-0.74	0.29	2	-0.61	0.51	2	-0.76	0.41	1	-1.16	0.40	2	-1.39	0.77	1
NGA	NIGERIA	-0.44	0.23	6	-1.23	0.25	4	-1.36	0.26	7	-1.05	0.27	5	-1.00	0.21	7	-1.32	0.22	6
NOR	NORWAY	1.58	0.24	5	1.67	0.25	4	1.32	0.23	7	1.41	0.26	5	1.35	0.20	7	1.67	0.25	6
OMN	OMAN	-0.50	0.25	3	-0.57	0.25	3	1.00	0.28	4	0.91	0.30	3	0.85	0.24	4	0.90	0.32	3
PAK	PAKISTAN	-1.43	0.24	5	-0.44	0.25	3	-0.39	0.26	6	-0.65	0.26	5	-0.48	0.22	6	-0.74	0.26	5
PAN	PANAMA	0.77	0.24	5	0.66	0.25	3	0.57	0.26	6	0.15	0.30	3	-0.14	0.21	6	-0.28	0.32	3
PNG	PAPUA NEW GUINEA	-0.03	0.24	4	0.12	0.25	3	-0.48	0.28	4	-0.40	0.34	2	-0.67	0.24	4	-0.69	0.37	2

Note: "Est" refers to the point estimate of governance. "S.E." refers to the standard error. "N" refers to the number of sources in which the country appears. Governance indicators are oriented so that higher values correspond to better outcomes, on a scale from -2.5 to 2.5. These ratings are based on subjective assessments from a variety of sources, are subject to substantial margins of error as indicated, and in no way reflect the official view of the World Bank, its Executive Directors, or the countries they represent.

Table 2: Estimates of Governance, Cont'd

		Voice and Accountability						Political Stability						Government Effectiveness					
		2000/01			1997/98			2000/01			1997/98			2000/01			1997/98		
		Est.	S.E.	N	Est.	S.E.	N	Est.	S.E.	N	Est.	S.E.	N	Est.	S.E.	N	Est.	S.E.	N
PRY	PARAGUAY	-0.70	0.24	4	-0.42	0.25	4	-0.87	0.32	4	-0.57	0.32	3	-1.20	0.26	4	-1.10	0.33	3
PER	PERU	0.15	0.23	6	-0.69	0.25	4	-0.23	0.24	8	-0.53	0.25	6	-0.35	0.19	9	0.17	0.24	6
PHL	PHILIPPINES	0.53	0.23	7	0.63	0.25	5	-0.21	0.22	9	0.27	0.26	5	0.03	0.19	9	0.13	0.25	6
POL	POLAND	1.21	0.16	8	1.12	0.19	6	0.69	0.22	9	0.84	0.22	7	0.27	0.17	11	0.67	0.21	8
PRT	PORTUGAL	1.42	0.24	5	1.48	0.25	5	1.41	0.23	7	1.39	0.25	6	0.91	0.20	7	1.15	0.23	7
PRI	PUERTO RICO	..	..	..	..	..	..	0.83	0.49	1	0.76	0.53	1	1.38	0.43	1	1.26	0.52	1
QAT	QATAR	-0.54	0.25	3	-0.78	0.25	3	1.40	0.28	4	1.38	0.30	3	0.82	0.24	4	0.48	0.32	3
ROM	ROMANIA	0.50	0.16	7	0.29	0.19	4	-0.08	0.26	7	0.02	0.24	4	-0.54	0.19	9	-0.57	0.26	4
RUS	RUSSIA	-0.35	0.16	8	-0.19	0.19	6	-0.41	0.22	9	-0.69	0.22	7	-0.57	0.17	11	-0.59	0.21	8
RWA	RWANDA	-1.42	0.36	2	-1.17	0.36	1	-1.16	0.63	1	..	..	..	..	..	..	..	..	..
STP	SAO TOME AND PRINCIPE	1.00	0.39	1	0.82	0.36	1	..	..	..	..	..	..	..	..	..	..	..	..
SAU	SAUDI ARABIA	-1.07	0.24	4	-1.10	0.25	3	0.51	0.25	5	0.24	0.28	4	0.00	0.22	5	-0.35	0.29	4
SEN	SENEGAL	0.12	0.24	5	-0.29	0.25	4	-0.68	0.31	4	-0.87	0.32	3	0.16	0.26	4	0.05	0.29	4
SLE	SIERRA LEONE	-1.35	0.27	3	-1.62	0.29	2	-1.26	0.51	2	-1.52	0.41	1	-1.60	0.40	2	0.01	0.77	1
SGP	SINGAPORE	0.11	0.24	6	0.13	0.25	6	1.44	0.23	8	1.39	0.25	6	2.16	0.19	9	2.08	0.23	7
SVK	SLOVAK REPUBLIC	0.99	0.16	7	0.52	0.19	5	0.62	0.25	7	0.65	0.23	6	0.23	0.19	8	-0.03	0.22	6
SVN	SLOVENIA	1.07	0.16	7	1.03	0.19	4	0.87	0.24	7	1.09	0.24	4	0.70	0.19	8	0.57	0.26	4
SLB	SOLOMON ISLANDS	0.16	0.39	1	1.17	0.36	1	..	..	..	..	..	..	..	..	..	..	..	..
SOM	SOMALIA	-1.45	0.27	3	-1.69	0.29	2	-1.55	0.51	2	-1.71	0.41	1	-2.34	0.40	2	-1.70	0.77	1
ZAF	SOUTH AFRICA	1.17	0.23	7	0.99	0.25	5	0.07	0.22	9	-0.53	0.24	7	0.25	0.18	10	-0.01	0.21	8
ESP	SPAIN	1.15	0.23	7	1.36	0.25	5	1.01	0.22	9	0.58	0.25	6	1.57	0.19	9	1.60	0.23	7
LKA	SRI LANKA	-0.23	0.24	4	-0.16	0.25	3	-1.63	0.27	5	-1.63	0.30	3	-0.44	0.22	5	-0.61	0.32	3
SDN	SUDAN	-1.53	0.24	4	-1.50	0.25	3	-2.01	0.28	4	-1.73	0.34	2	-1.34	0.24	4	-1.70	0.37	2
SUR	SURINAME	0.63	0.28	2	0.28	0.29	2	0.12	0.65	1	-0.20	0.41	1	0.10	0.53	1	-0.15	0.77	1
SWZ	SWAZILAND	-0.93	0.39	1	-0.78	0.36	1	..	..	..	-1.69	0.61	1	..	..	..	-0.47	0.33	2
SWE	SWEDEN	1.65	0.23	7	1.60	0.25	4	1.38	0.22	9	1.41	0.26	5	1.51	0.19	9	1.57	0.25	6
CHE	SWITZERLAND	1.73	0.23	6	1.68	0.25	5	1.61	0.23	8	1.69	0.25	6	1.93	0.19	8	1.99	0.23	7
SYR	SYRIA	-1.40	0.25	3	-1.36	0.25	3	-0.28	0.28	4	0.08	0.30	3	-0.81	0.24	4	-1.18	0.32	3
TWN	TAIWAN	0.83	0.23	6	0.71	0.25	5	0.70	0.23	8	0.94	0.26	5	0.91	0.19	9	1.29	0.25	6
TJK	TAJIKISTAN	-0.69	0.19	3	-1.13	0.23	2	-1.77	0.42	2	-1.86	0.33	2	-1.31	0.28	3	-1.42	0.34	2
TZA	TANZANIA	-0.07	0.24	5	-0.28	0.25	4	-0.34	0.27	5	0.57	0.27	5	-0.43	0.23	5	-0.49	0.22	6
THA	THAILAND	0.37	0.24	6	0.22	0.25	6	0.21	0.23	8	0.25	0.25	6	0.10	0.19	9	0.01	0.23	7
TGO	TOGO	-1.06	0.28	2	-1.05	0.29	3	-0.62	0.65	1	-0.91	0.37	2	-1.32	0.53	1	-0.37	0.51	2
TTO	TRINIDAD AND TOBAGO	0.61	0.25	4	0.95	0.25	3	0.27	0.32	4	0.32	0.34	2	0.62	0.25	4	0.52	0.37	2
TUN	TUNISIA	-0.61	0.25	4	-0.59	0.25	3	0.82	0.27	5	0.66	0.28	4	1.30	0.23	5	0.63	0.24	5
TUR	TURKEY	-0.55	0.23	7	-0.88	0.25	5	-0.75	0.22	9	-0.94	0.25	6	-0.15	0.18	10	-0.41	0.23	7
TKM	TURKMENISTAN	-1.42	0.19	2	-1.45	0.23	2	0.11	0.49	1	0.00	0.33	2	-1.23	0.32	2	-1.25	0.34	2
UGA	UGANDA	-0.79	0.24	5	-0.52	0.25	4	-1.31	0.27	5	-0.98	0.27	5	-0.32	0.23	5	-0.25	0.22	6
UKR	UKRAINE	-0.31	0.16	6	-0.05	0.19	5	-0.59	0.25	7	-0.24	0.22	7	-0.75	0.19	8	-0.89	0.21	7
ARE	UNITED ARAB EMIRATES	-0.51	0.25	3	-0.54	0.25	3	1.09	0.29	3	0.82	0.30	3	0.60	0.26	3	0.14	0.32	3
GBR	UNITED KINGDOM	1.46	0.23	7	1.51	0.25	5	1.10	0.22	9	0.92	0.25	6	1.77	0.18	10	1.97	0.23	7
USA	UNITED STATES	1.24	0.24	6	1.52	0.25	6	1.18	0.23	8	1.10	0.25	6	1.58	0.19	9	1.37	0.23	7
URY	URUGUAY	1.08	0.24	5	0.77	0.25	3	1.05	0.28	6	0.35	0.30	3	0.61	0.21	7	0.62	0.32	3
UZB	UZBEKISTAN	-1.18	0.18	5	-1.28	0.21	4	-1.17	0.29	4	-0.33	0.27	4	-0.86	0.22	5	-1.30	0.25	4
VEN	VENEZUELA	-0.34	0.24	5	0.15	0.25	5	-0.33	0.23	7	-0.25	0.25	6	-0.81	0.19	8	-0.85	0.23	7
VNM	VIETNAM	-1.29	0.24	4	-1.45	0.25	4	0.44	0.24	6	0.65	0.26	5	-0.30	0.20	6	-0.30	0.26	5
WTB	WEST BANK	0.00	1.00	1	-0.13	0.86	1	-0.39	0.90	1	0.11	0.66	1	0.37	0.70	1	-0.09	0.56	1
WSM	WESTERN SAMOA	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
YEM	YEMEN	-0.63	0.24	4	-0.41	0.25	3	-1.07	0.31	3	-1.47	0.34	2	-0.77	0.27	3	-0.62	0.37	2
YUG	YUGOSLAVIA, FEDERAL REPUBLIC OF	-0.09	0.17	4	-0.71	0.19	4	-0.48	0.34	2	-1.42	0.26	3	-0.97	0.25	3	-0.95	0.29	3
ZAR	Congo, Dem. Rep. (Zaire)	-1.70	0.27	3	-1.57	0.29	2	-2.59	0.38	3	-2.59	0.34	2	-1.38	0.31	3	-1.77	0.48	2
ZMB	ZAMBIA	-0.17	0.24	5	-0.05	0.25	4	-0.42	0.27	5	0.00	0.27	5	-0.75	0.23	5	-0.40	0.22	6
ZWE	ZIMBABWE	-0.90	0.25	4	-0.67	0.25	4	-1.25	0.28	5	-0.54	0.27	5	-1.03	0.22	5	-1.13	0.22	6

Note: "Est" refers to the point estimate of governance. "S.E." refers to the standard error. "N" refers to the number of sources in which the country appears. Governance indicators are oriented so that higher values correspond to better outcomes, on a scale from -2.5 to 2.5. These ratings are based on subjective assessments from a variety of sources, are subject to substantial margins of error as indicated, and in no way reflect the official view of the World Bank, its Executive Directors, or the countries they represent.

Table 2: Estimates of Governance, Cont'd

	Regulatory Quality						Rule of Law						Control of Corruption						
	2000/01			1997/98			2000/01			1997/98			2000/01			1997/98			
	Est.	S.E.	N	Est.	S.E.	N	Est.	S.E.	N	Est.	S.E.	N	Est.	S.E.	N	Est.	S.E.	N	
AFG	AFGHANISTAN	-2.95	0.46	1	..	..	..	-2.17	0.37	1	..	..	..	-1.47	0.47	1	..	..	..
ALB	ALBANIA	-0.21	0.35	5	-0.70	0.26	5	-0.71	0.20	6	-0.92	0.20	6	-0.60	0.20	6	-0.99	0.23	5
DZA	ALGERIA	-0.79	0.37	3	-1.17	0.40	3	-0.97	0.24	5	-1.10	0.28	4	-0.62	0.25	4	-0.88	0.27	3
AGO	ANGOLA	-1.39	0.37	3	-0.71	0.29	4	-1.49	0.24	5	-1.23	0.27	5	-1.14	0.25	4	-0.86	0.22	4
ARG	ARGENTINA	0.25	0.27	7	0.67	0.23	5	0.22	0.18	11	0.32	0.22	7	-0.36	0.17	11	-0.27	0.20	7
ARM	ARMENIA	-0.53	0.35	5	-0.57	0.26	5	-0.35	0.21	6	-0.15	0.20	6	-0.80	0.23	5	-0.80	0.23	5
AUS	AUSTRALIA	1.18	0.29	5	0.96	0.23	5	1.69	0.18	8	1.60	0.22	7	1.75	0.20	7	1.60	0.21	6
AUT	AUSTRIA	1.19	0.29	5	0.90	0.23	6	1.86	0.19	8	1.81	0.21	8	1.56	0.22	7	1.46	0.19	8
AZE	AZERBAIJAN	-0.14	0.35	5	-1.00	0.26	5	-0.78	0.19	7	-0.56	0.18	7	-1.05	0.18	7	-1.00	0.19	6
BHS	BAHAMAS	0.73	0.54	2	0.87	0.52	2	0.85	0.43	2	0.56	0.44	2	0.74	0.65	1	0.50	0.75	1
BHR	BAHRAIN	0.78	0.37	3	0.75	0.40	3	0.42	0.24	5	0.66	0.28	4	0.04	0.25	4	-0.21	0.27	3
BGD	BANGLADESH	0.01	0.37	4	-0.16	0.40	3	-0.76	0.24	6	-0.93	0.28	4	-0.64	0.23	5	-0.29	0.27	3
BRB	BARBADOS	0.39	0.64	1	0.61	0.60	1	1.16	0.52	1	0.41	0.60	1	..	..	..	..	..	..
BLR	BELARUS	-2.28	0.37	4	-1.47	0.26	5	-0.81	0.20	7	-0.88	0.20	6	-0.06	0.21	6	-0.65	0.22	6
BEL	BELGIUM	0.58	0.28	6	0.79	0.23	5	1.34	0.19	8	0.80	0.22	7	1.05	0.22	7	0.67	0.20	7
BLZ	BELIZE	0.03	0.63	2	0.29	0.60	1	0.74	0.45	2	0.09	0.60	1	0.48	0.48	1	..	..	..
BEN	BENIN	0.07	0.64	1	-0.08	0.60	2	-0.57	0.43	2	-0.42	0.45	2	..	..	..	-0.78	0.54	1
BTN	BHUTAN	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
BOL	BOLIVIA	0.66	0.34	5	0.88	0.39	4	-0.41	0.21	8	-0.35	0.26	5	-0.72	0.21	7	-0.44	0.23	5
BIH	BOSNIA-HERZEGOVINA	-1.18	0.54	3	-1.26	0.30	2	-0.75	0.26	4	-1.11	0.23	3	-0.49	0.26	3	-0.35	0.46	1
BWA	BOTSWANA	1.02	0.37	4	0.57	0.29	4	0.68	0.24	6	0.50	0.27	5	0.89	0.23	5	0.54	0.22	4
BRA	BRAZIL	0.13	0.27	7	0.13	0.23	6	-0.26	0.18	10	-0.22	0.21	8	-0.02	0.17	10	0.06	0.19	8
BRN	BRUNEI	0.19	0.71	1	-0.08	0.72	1	1.29	0.60	1	1.25	0.55	1	-0.17	0.65	1	-0.02	0.75	1
BGR	BULGARIA	0.16	0.32	6	0.52	0.26	5	0.02	0.17	9	-0.15	0.18	7	-0.16	0.17	9	-0.56	0.18	7
BFA	BURKINA FASO	0.04	0.54	2	-0.04	0.33	3	-0.79	0.37	3	-0.35	0.43	3	-0.93	0.39	2	-0.37	0.36	2
BDI	BURUNDI	-0.59	0.50	2	-0.85	0.60	1	-1.07	0.29	3	-0.88	0.60	1	-1.40	0.33	2	..	..	..
KHM	CAMBODIA	0.24	0.63	2	-0.04	0.60	1	-0.38	0.45	2	-0.23	0.60	1	0.34	0.48	1	..	..	..
CMR	CAMEROON	0.05	0.37	4	-0.16	0.29	5	-1.02	0.25	6	-1.02	0.25	6	-1.11	0.25	5	-1.10	0.21	5
CAN	CANADA	1.07	0.29	6	0.87	0.23	6	1.70	0.18	10	1.55	0.21	8	2.05	0.19	9	2.06	0.20	7
CPV	CAPE VERDE	-0.41	0.64	1	-1.01	0.60	1	0.15	0.52	1	0.09	0.60	1	..	..	..	..	..	..
CAF	CENTRAL AFRICAN REPUBLIC	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
TCD	CHAD	-0.57	0.64	1	-0.74	0.60	2	-0.86	0.52	1	-0.83	0.45	2	..	..	..	-0.59	0.54	1
CHL	CHILE	1.10	0.27	7	0.90	0.23	5	1.19	0.18	11	1.09	0.22	7	1.40	0.17	11	1.03	0.20	7
CHN	CHINA	-0.13	0.27	7	-0.07	0.23	5	-0.19	0.18	9	-0.04	0.22	7	-0.30	0.16	10	-0.29	0.16	7
COL	COLOMBIA	0.02	0.27	7	0.29	0.23	6	-0.77	0.18	11	-0.78	0.21	8	-0.39	0.17	11	-0.49	0.19	8
COM	COMOROS	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
COG	CONGO	-0.76	0.54	2	-0.99	0.52	3	-1.11	0.37	3	-1.44	0.37	3	-0.49	0.39	2	-0.60	0.48	2
CRI	COSTA RICA	0.88	0.34	5	0.93	0.39	4	0.61	0.20	8	0.55	0.24	6	0.87	0.19	7	0.58	0.21	6
CIV	IVORY COAST	-0.30	0.37	4	0.15	0.29	5	-0.54	0.25	5	-0.33	0.25	6	-0.71	0.26	4	-0.08	0.21	5
HRV	CROATIA	0.20	0.35	5	0.24	0.26	4	0.29	0.20	7	0.15	0.19	6	0.02	0.19	7	-0.46	0.20	5
CUB	CUBA	-1.23	0.37	3	-0.87	0.40	3	-0.32	0.24	5	0.11	0.28	4	-0.12	0.25	4	0.27	0.27	3
CYP	CYPRUS	0.83	0.37	3	0.84	0.40	3	0.96	0.26	4	0.93	0.28	4	1.24	0.30	3	1.81	0.27	3
CZE	CZECH REPUBLIC	0.54	0.26	8	0.57	0.19	7	0.64	0.16	10	0.54	0.16	10	0.31	0.16	11	0.38	0.16	9
DNK	DENMARK	1.09	0.29	5	1.05	0.23	5	1.71	0.18	9	1.69	0.22	7	2.09	0.20	8	2.13	0.20	7
DJI	DJIBOUTI	-0.41	0.64	1	-0.52	0.60	1	-0.19	0.52	1	-0.23	0.60	1	..	..	..	..	..	..
DOM	DOMINICAN REPUBLIC	0.60	0.34	5	0.54	0.52	2	0.01	0.21	7	0.38	0.31	3	-0.20	0.22	6	-0.77	0.30	2
ECU	ECUADOR	0.00	0.31	6	0.38	0.39	4	-0.76	0.19	9	-0.72	0.24	6	-0.98	0.19	9	-0.82	0.24	5
EGY	EGYPT	0.13	0.31	6	0.12	0.23	5	0.21	0.19	8	0.13	0.23	7	-0.16	0.20	8	-0.27	0.20	6
SLV	EL SALVADOR	0.94	0.44	4	1.23	0.52	2	-0.65	0.24	7	-0.66	0.28	4	-0.33	0.21	6	-0.35	0.22	4
GNQ	EQUATORIAL GUINEA	-0.90	0.64	1	-1.33	0.60	1	-1.20	0.52	1	-1.20	0.60	1	..	..	..	..	..	..
ERI	ERITREA	..	..	..	..	..	..	-0.43	0.60	1	..	..	..	-0.97	0.44	1	..	..	..
EST	ESTONIA	1.09	0.28	7	0.74	0.26	5	0.78	0.16	10	0.51	0.18	7	0.73	0.16	10	0.59	0.18	7
ETH	ETHIOPIA	-0.71	0.53	3	-0.03	0.33	3	-0.24	0.34	4	0.27	0.43	3	-0.40	0.32	3	-0.44	0.36	2
FJI	FIJI	-0.41	0.64	1	-0.37	0.60	2	-0.52	0.52	1	-0.50	0.45	2	1.01	0.44	1	0.81	0.54	1
FIN	FINLAND	1.42	0.29	5	1.14	0.23	5	1.83	0.18	9	1.74	0.22	7	2.25	0.20	8	2.08	0.20	7
FRA	FRANCE	0.59	0.29	6	0.71	0.23	6	1.22	0.18	10	1.08	0.21	8	1.15	0.19	8	1.28	0.20	7
GAB	GABON	-0.12	0.37	3	0.35	0.52	2	-0.44	0.24	5	-0.53	0.31	3	-0.58	0.25	4	-1.02	0.30	2
GMB	GAMBIA	-0.01	0.54	2	-0.25	0.52	2	0.00	0.43	2	0.27	0.44	2	0.13	0.65	1	-0.02	0.75	1
GEO	GEORGIA	-0.75	0.37	4	-0.85	0.27	4	-0.43	0.21	6	-0.49	0.21	5	-0.69	0.20	6	-0.74	0.24	4
DEU	GERMANY	1.08	0.29	6	0.89	0.23	6	1.57	0.18	10	1.48	0.21	8	1.38	0.19	8	1.62	0.19	8
GHA	GHANA	0.24	0.37	4	0.28	0.29	5	-0.08	0.25	6	-0.01	0.25	6	-0.28	0.25	5	-0.30	0.21	5

Note: "Est" refers to the point estimate of governance. "S.E." refers to the standard error. "N" refers to the number of sources in which the country appears. Governance indicators are oriented so that higher values correspond to better outcomes, on a scale from -2.5 to 2.5. These ratings are based on subjective assessments from a variety of sources, are subject to substantial margins of error as indicated, and in no way reflect the official view of the World Bank, its Executive Directors, or the countries they represent.

Table 2: Estimates of Governance, Cont'd

	Regulatory Quality						Rule of Law						Control of Corruption					
	2000/01			1997/98			2000/01			1997/98			2000/01			1997/98		
	Est.	S.E.	N	Est.	S.E.	N	Est.	S.E.	N	Est.	S.E.	N	Est.	S.E.	N	Est.	S.E.	N
GRC GREECE	0.71	0.27	6	0.60	0.23	5	0.62	0.19	7	0.50	0.22	7	0.73	0.21	7	0.82	0.20	7
GTM GUATEMALA	0.16	0.40	5	0.44	0.52	2	-1.00	0.24	7	-1.11	0.28	4	-0.69	0.20	7	-0.82	0.25	3
GIN GUINEA	0.16	0.54	2	0.20	0.52	3	-0.59	0.43	2	-0.76	0.37	3	0.13	0.65	1	-0.85	0.48	2
GNB GUINEA-BISSAU	-1.04	0.54	2	-1.35	0.52	3	-1.50	0.37	3	-1.61	0.37	3	0.10	0.39	2	-0.18	0.48	2
GUY GUYANA	0.04	0.54	2	0.23	0.52	2	0.13	0.37	3	-0.14	0.44	2	-0.45	0.39	2	-0.02	0.75	1
HTI HAITI	-1.29	0.53	3	-1.13	0.52	2	-1.45	0.34	4	-1.50	0.44	2	-0.84	0.32	3	-0.53	0.75	1
HND HONDURAS	-0.16	0.44	4	0.08	0.52	2	-1.06	0.24	7	-0.90	0.28	4	-0.63	0.21	6	-0.94	0.25	3
HKG HONG KONG	1.44	0.27	6	1.21	0.23	6	1.37	0.20	7	1.33	0.22	7	1.16	0.18	8	1.31	0.16	8
HUN HUNGARY	0.88	0.26	8	0.85	0.19	7	0.76	0.15	11	0.71	0.16	10	0.65	0.15	12	0.61	0.16	10
ISL ICELAND	1.08	0.35	4	0.61	0.25	4	1.77	0.26	5	1.47	0.30	4	2.16	0.30	4	1.83	0.31	3
IND INDIA	-0.16	0.27	7	-0.04	0.23	6	0.23	0.18	9	0.16	0.21	8	-0.39	0.16	10	-0.31	0.15	9
IDN INDONESIA	-0.43	0.27	7	0.12	0.23	5	-0.87	0.18	9	-0.92	0.22	7	-1.01	0.16	10	-0.80	0.16	7
IRN IRAN	-1.07	0.37	3	-1.25	0.40	3	-0.39	0.22	6	-0.36	0.26	5	-0.64	0.25	5	-0.85	0.26	4
IRQ IRAQ	-2.78	0.37	3	-3.14	0.40	3	-1.64	0.24	5	-1.84	0.28	4	-1.15	0.25	4	-1.26	0.27	3
IRL IRELAND	1.33	0.29	5	1.16	0.23	6	1.54	0.18	9	1.39	0.21	8	1.16	0.20	8	1.57	0.19	8
ISR ISRAEL	0.73	0.27	6	0.53	0.23	5	0.94	0.19	7	0.97	0.23	6	1.12	0.20	7	1.28	0.20	6
ITA ITALY	0.59	0.27	7	0.59	0.23	6	0.72	0.18	10	0.86	0.21	8	0.63	0.18	10	0.80	0.19	8
JAM JAMAICA	0.42	0.45	3	0.76	0.52	3	-0.38	0.26	4	-0.73	0.29	4	-0.06	0.29	3	-0.12	0.27	3
JPN JAPAN	0.64	0.27	6	0.39	0.23	5	1.59	0.18	9	1.42	0.25	6	1.20	0.17	10	0.72	0.16	8
JOR JORDAN	0.73	0.34	4	0.42	0.27	5	0.66	0.21	6	0.71	0.24	6	0.09	0.23	5	0.14	0.22	5
KAZ KAZAKHSTAN	-0.51	0.35	5	-0.40	0.26	5	-0.60	0.18	9	-0.59	0.17	8	-0.83	0.18	8	-0.87	0.19	7
KEN KENYA	-0.26	0.34	5	-0.13	0.29	5	-1.21	0.24	6	-1.22	0.25	6	-1.11	0.22	6	-0.65	0.21	5
PRK KOREA, NORTH	-1.39	0.54	2	-1.40	0.52	2	-0.74	0.37	3	-0.67	0.44	2	-0.90	0.39	2	-0.53	0.75	1
KOR KOREA, SOUTH	0.30	0.27	6	0.22	0.23	6	0.55	0.18	9	0.94	0.21	8	0.37	0.17	10	0.16	0.15	9
KWT KUWAIT	-0.13	0.37	3	-0.09	0.40	3	1.10	0.26	4	0.91	0.28	4	0.59	0.30	3	0.62	0.27	3
KGZ KYRGYZ REPUBLIC	-0.63	0.37	4	-0.76	0.27	4	-0.72	0.22	4	-0.47	0.21	5	-0.85	0.23	4	-0.76	0.24	4
LAO LAOS	-1.54	0.64	1	-1.82	0.60	1	-0.72	0.43	2	-1.20	0.60	1	-0.31	0.44	1	..	..	..
LVA LATVIA	0.30	0.32	5	0.51	0.26	5	0.36	0.18	7	0.15	0.18	7	-0.03	0.19	7	-0.26	0.18	7
LBN LEBANON	0.30	0.37	3	0.10	0.40	3	-0.05	0.24	5	0.26	0.28	4	-0.63	0.25	4	-0.40	0.27	3
LSO LESOTHO	-0.17	0.64	1	-0.06	0.35	2	-0.19	0.52	1	-0.24	0.57	2	..	..	..	0.19	0.38	1
LBR LIBERIA	-1.29	0.71	1	-1.25	0.72	1	-1.03	0.47	2	-1.29	0.55	1	-0.59	0.39	2	-1.05	0.75	1
LBY LIBYA	-1.64	0.37	3	-2.38	0.40	3	-0.89	0.26	4	-1.11	0.28	4	-0.90	0.30	3	-0.88	0.27	3
LTU LITHUANIA	0.30	0.30	7	0.09	0.26	5	0.29	0.17	9	0.18	0.18	7	0.20	0.16	10	0.03	0.19	6
LUX LUXEMBOURG	1.49	0.38	3	0.95	0.25	4	1.86	0.33	4	1.62	0.30	4	1.78	0.37	3	1.67	0.28	4
MKD MACEDONIA, FORMER YUGOSLAVIA	-0.23	0.72	1	-0.31	0.33	2	-0.33	0.27	3	-0.26	0.20	4	-0.51	0.25	3	-0.52	0.20	4
MDG MADAGASCAR	-0.05	0.53	3	-0.21	0.52	3	-0.68	0.34	4	-0.82	0.37	3	-0.93	0.32	3	-0.47	0.48	2
MWI MALAWI	0.28	0.53	3	0.08	0.33	4	-0.36	0.29	5	-0.41	0.28	5	0.10	0.26	4	-0.19	0.22	4
MYS MALAYSIA	0.22	0.29	6	0.48	0.23	6	0.34	0.18	10	0.83	0.21	8	0.13	0.18	9	0.63	0.16	8
MDV MALDIVES	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
MLI MALI	0.27	0.54	2	0.29	0.52	3	-0.66	0.37	3	-0.47	0.37	3	-0.41	0.39	2	-0.48	0.48	2
MLT MALTA	0.33	0.54	2	0.39	0.52	2	0.68	0.43	2	0.86	0.44	2	0.13	0.65	1	0.50	0.75	1
MRT MAURITANIA	-0.57	0.64	1	-0.85	0.60	1	-0.57	0.43	2	-0.56	0.60	1	-0.97	0.44	1	..	..	..
MUS MAURITIUS	0.41	0.50	2	0.22	0.35	3	1.00	0.26	4	1.28	0.31	4	0.49	0.26	3	0.34	0.23	3
MEX MEXICO	0.58	0.27	7	0.61	0.23	6	-0.41	0.18	11	-0.47	0.21	8	-0.28	0.17	11	-0.28	0.20	7
MDA MOLDOVA	-1.11	0.35	5	-0.28	0.26	5	-0.42	0.19	7	-0.02	0.18	7	-0.83	0.18	7	-0.39	0.19	6
MNG MONGOLIA	0.16	0.54	2	0.17	0.52	2	0.42	0.37	3	0.04	0.32	3	-0.19	0.39	2	-0.15	0.42	2
MAR MOROCCO	0.54	0.37	3	0.22	0.29	5	0.46	0.26	4	0.68	0.25	6	0.44	0.30	3	0.13	0.21	5
MOZ MOZAMBIQUE	0.16	0.54	2	-0.23	0.33	4	-0.32	0.37	3	-1.05	0.36	4	0.10	0.39	2	-0.53	0.31	3
MMR MYANMAR	-1.15	0.37	3	-1.01	0.40	3	-1.02	0.24	5	-0.84	0.28	4	-1.18	0.25	4	-1.10	0.27	3
NAM NAMIBIA	0.53	0.53	3	0.27	0.33	3	1.24	0.29	5	0.95	0.31	4	1.25	0.26	4	0.38	0.24	3
NPL NEPAL	-0.41	0.64	1	-0.36	0.60	1	-0.65	0.43	2	-0.56	0.60	1	-0.31	0.44	1	..	..	..
NLD NETHERLANDS	1.50	0.29	5	1.14	0.23	5	1.67	0.18	9	1.58	0.22	7	2.09	0.20	8	2.03	0.20	7
NZL NEW ZEALAND	1.13	0.29	5	1.20	0.23	5	1.71	0.19	7	1.82	0.23	6	2.09	0.21	6	2.07	0.20	6
NIC NICARAGUA	-0.16	0.44	4	-0.10	0.52	2	-0.79	0.24	7	-0.73	0.28	4	-0.80	0.21	6	-0.84	0.25	3
NER NIGER	-0.30	0.54	2	-0.52	0.52	2	-1.17	0.37	3	-1.14	0.44	2	-1.09	0.65	1	-1.57	0.75	1
NGA NIGERIA	-0.39	0.34	5	-0.35	0.29	5	-1.13	0.20	8	-1.10	0.25	6	-1.05	0.20	7	-0.95	0.20	6
NOR NORWAY	0.73	0.29	5	0.93	0.23	5	1.70	0.19	8	1.83	0.22	7	1.76	0.22	7	1.69	0.20	7
OMN OMAN	0.60	0.37	3	0.30	0.40	3	1.06	0.24	5	1.08	0.28	4	0.44	0.25	4	0.48	0.27	3
PAK PAKISTAN	-0.38	0.34	5	-0.20	0.27	4	-0.74	0.22	7	-0.76	0.24	6	-0.79	0.24	6	-0.77	0.22	6
PAN PANAMA	0.91	0.34	5	1.00	0.40	3	-0.12	0.20	8	-0.39	0.28	4	-0.45	0.19	7	-0.46	0.27	3
PNG PAPUA NEW GUINEA	-0.38	0.37	3	-0.13	0.52	2	-0.28	0.24	5	-0.31	0.31	3	-1.21	0.25	4	-0.85	0.30	2

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	Regulatory Quality						Rule of Law						Control of Corruption					
	2000/01			1997/98			2000/01			1997/98			2000/01			1997/98		
	Est.	S.E.	N	Est.	S.E.	N	Est.	S.E.	N	Est.	S.E.	N	Est.	S.E.	N	Est.	S.E.	N
PRY PARAGUAY	-0.43	0.45	3	0.37	0.52	3	-0.83	0.26	6	-0.70	0.29	4	-0.97	0.24	5	-0.96	0.27	3
PER PERU	0.36	0.31	6	0.67	0.27	5	-0.53	0.19	10	-0.52	0.22	7	-0.04	0.18	10	-0.20	0.21	6
PHL PHILIPPINES	0.21	0.29	6	0.57	0.23	5	-0.49	0.18	10	-0.08	0.22	7	-0.49	0.17	10	-0.23	0.16	7
POL POLAND	0.41	0.26	8	0.56	0.19	7	0.55	0.15	11	0.54	0.16	10	0.43	0.15	12	0.49	0.16	9
PRT PORTUGAL	0.81	0.29	6	0.89	0.23	6	0.94	0.18	8	1.08	0.21	8	1.21	0.21	7	1.22	0.19	8
PRI PUERTO RICO	0.93	0.46	1	0.84	0.52	1	0.99	0.37	1	0.77	0.50	1	1.18	0.47	1	1.12	0.53	1
QAT QATAR	0.38	0.37	3	0.33	0.40	3	1.00	0.24	5	1.27	0.28	4	0.57	0.25	4	0.57	0.27	3
ROM ROMANIA	-0.28	0.30	7	0.20	0.26	4	-0.02	0.17	9	-0.09	0.19	6	-0.51	0.16	10	-0.46	0.19	6
RUS RUSSIA	-1.40	0.26	8	-0.30	0.19	7	-0.87	0.15	11	-0.72	0.16	10	-1.01	0.15	12	-0.62	0.16	10
RWA RWANDA	-0.73	0.64	1	-1.17	0.60	1	-1.17	0.43	2	-1.20	0.60	1	0.35	0.44	1	..	..	..
STP SAO TOME AND PRINCIPE	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
SAU SAUDI ARABIA	-0.11	0.37	3	-0.15	0.40	3	0.19	0.22	6	0.49	0.26	5	-0.35	0.25	5	-0.58	0.26	4
SEN SENEGAL	-0.38	0.53	3	-0.34	0.52	3	-0.13	0.29	5	-0.10	0.29	4	-0.39	0.26	4	-0.24	0.27	3
SLE SIERRA LEONE	-1.21	0.54	2	-1.50	0.52	2	-0.38	0.37	3	-0.91	0.44	2	-0.45	0.39	2	-0.02	0.75	1
SGP SINGAPORE	1.82	0.27	7	1.24	0.23	6	1.85	0.18	9	1.94	0.21	8	2.13	0.17	10	1.95	0.16	8
SVK SLOVAK REPUBLIC	0.27	0.28	7	0.17	0.22	6	0.36	0.17	9	0.13	0.17	8	0.23	0.17	9	0.03	0.17	7
SVN SLOVENIA	0.52	0.28	7	0.53	0.26	4	0.89	0.16	9	0.83	0.19	6	1.09	0.16	9	1.02	0.21	4
SLB SOLOMON ISLANDS	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
SOM SOMALIA	-1.50	0.54	2	-1.77	0.52	2	-1.29	0.37	3	-1.50	0.44	2	-1.16	0.39	2	-1.05	0.75	1
ZAF SOUTH AFRICA	0.07	0.27	7	0.24	0.20	7	-0.05	0.18	10	-0.35	0.21	9	0.35	0.18	10	0.30	0.17	9
ESP SPAIN	1.08	0.29	6	0.86	0.23	6	1.12	0.18	10	1.03	0.21	8	1.45	0.19	9	1.21	0.19	8
LKA SRI LANKA	0.38	0.34	4	0.62	0.40	3	-0.31	0.21	6	-0.36	0.28	4	0.00	0.23	5	-0.12	0.27	3
SDN SUDAN	-0.41	0.37	3	-0.83	0.52	2	-1.04	0.24	5	-1.35	0.31	3	-1.24	0.25	4	-1.02	0.30	2
SUR SURINAME	-0.81	0.54	2	-0.59	0.52	2	-0.59	0.43	2	-0.73	0.44	2	0.13	0.65	1	-0.02	0.75	1
SWZ SWAZILAND	0.23	0.64	1	0.29	0.35	2	0.15	0.52	1	-0.06	0.57	2	..	..	..	0.01	0.38	1
SWE SWEDEN	1.08	0.29	6	0.85	0.23	5	1.70	0.18	10	1.62	0.22	7	2.21	0.19	9	2.09	0.20	7
CHE SWITZERLAND	1.21	0.29	5	0.88	0.23	6	1.91	0.18	9	2.00	0.21	8	1.91	0.20	8	2.07	0.19	8
SYR SYRIA	-0.66	0.37	3	-0.92	0.40	3	-0.52	0.24	5	-0.29	0.28	4	-0.83	0.25	4	-0.79	0.27	3
TWN TAIWAN	0.73	0.27	6	0.83	0.23	5	0.75	0.18	9	0.93	0.22	7	0.53	0.17	10	0.63	0.16	8
TJK TAJIKISTAN	-1.46	0.38	3	-1.52	0.27	3	-1.25	0.22	4	-1.33	0.22	4	-1.08	0.24	3	-1.32	0.26	3
TZA TANZANIA	-0.02	0.37	4	0.18	0.29	5	0.16	0.24	6	0.16	0.25	6	-0.92	0.23	5	-0.92	0.21	5
THA THAILAND	0.56	0.27	7	0.19	0.23	6	0.44	0.18	9	0.41	0.21	8	-0.46	0.17	10	-0.16	0.16	8
TGO TOGO	-0.99	0.54	2	-0.85	0.52	3	-0.82	0.43	2	-0.80	0.37	3	-0.48	0.65	1	-0.24	0.48	2
TTO TRINIDAD AND TOBAGO	0.86	0.44	4	0.72	0.52	2	0.41	0.25	5	0.51	0.31	3	0.49	0.26	4	0.51	0.30	2
TUN TUNISIA	0.81	0.37	4	0.43	0.29	4	0.81	0.24	6	0.65	0.27	5	0.86	0.23	5	0.02	0.22	4
TUR TURKEY	0.04	0.27	7	0.99	0.23	6	-0.16	0.18	10	-0.01	0.21	8	-0.48	0.18	10	-0.35	0.19	8
TKM TURKMENISTAN	-1.73	0.38	3	-1.93	0.27	3	-1.02	0.23	3	-0.97	0.22	4	-1.12	0.27	2	-1.29	0.26	3
UGA UGANDA	-0.20	0.37	4	0.18	0.29	5	-0.65	0.24	6	-0.01	0.25	6	-0.92	0.23	5	-0.47	0.21	5
UKR UKRAINE	-1.05	0.32	6	-0.72	0.22	6	-0.63	0.17	9	-0.71	0.17	9	-0.90	0.18	9	-0.89	0.17	9
ARE UNITED ARAB EMIRATES	0.39	0.37	3	0.30	0.40	3	1.12	0.26	4	0.77	0.28	4	0.13	0.30	3	-0.03	0.27	3
GBR UNITED KINGDOM	1.32	0.27	7	1.21	0.23	6	1.61	0.18	10	1.69	0.21	8	1.86	0.18	10	1.71	0.19	8
USA UNITED STATES	1.19	0.27	7	1.14	0.23	6	1.58	0.18	9	1.25	0.21	8	1.45	0.19	9	1.41	0.20	7
URY URUGUAY	0.95	0.31	6	0.95	0.40	3	0.63	0.21	8	0.27	0.28	4	0.71	0.20	8	0.43	0.25	4
UZB UZBEKISTAN	-1.17	0.37	4	-1.40	0.27	4	-0.71	0.20	6	-0.87	0.19	6	-0.66	0.20	5	-0.96	0.19	5
VEN VENEZUELA	-0.30	0.27	7	0.09	0.23	6	-0.81	0.18	9	-0.66	0.21	8	-0.59	0.19	9	-0.72	0.20	7
VNM VIETNAM	-0.50	0.34	4	-0.46	0.27	4	-0.57	0.19	7	-0.44	0.24	6	-0.76	0.19	7	-0.33	0.17	6
WTB WEST BANK	0.49	0.96	1	-0.16	0.98	1	0.30	0.68	1	1.22	0.56	1	0.68	0.48	1	0.36	0.54	1
WSM WESTERN SAMOA	0.23	0.64	1	..	..	..	0.49	0.52	1	..	..	..	..	..	..	..	..	..
YEM YEMEN	-0.30	0.54	2	-0.52	0.52	2	-1.12	0.31	4	-1.01	0.31	3	-0.70	0.29	3	-0.85	0.30	2
YUG YUGOSLAVIA, FEDERAL REPUBLIC	-0.70	0.71	1	-1.54	0.72	1	-0.94	0.25	3	-0.81	0.20	4	-1.04	0.24	3	-0.99	0.20	5
ZAR Congo, Dem. Rep. (Zaire)	-2.87	0.37	3	-2.34	0.40	3	-2.09	0.27	4	-2.15	0.35	3	-1.24	0.32	3	-1.56	0.48	2
ZMB ZAMBIA	0.49	0.37	4	0.25	0.29	5	-0.39	0.24	6	-0.40	0.25	6	-0.87	0.23	5	-0.61	0.21	5
ZWE ZIMBABWE	-1.66	0.34	5	-0.34	0.23	6	-0.94	0.21	6	-0.15	0.23	7	-1.08	0.23	5	-0.32	0.18	7

Note: "Est" refers to the point estimate of governance. "S.E." refers to the standard error. "N" refers to the number of sources in which the country appears. Governance indicators are oriented so that higher values correspond to better outcomes, on a scale from -2.5 to 2.5. These ratings are based on subjective assessments from a variety of sources, are subject to substantial margins of error as indicated, and in no way reflect the official view of the World Bank, its Executive Directors, or the countries they represent.

Table 3: Summary of Differences Between 2000/01 and 1997/98 Indicator

	Number of Countries		Number of Sources		Correlation between periods
	2000/01	1997/98	2000/01	1997/98	
Voice and Accountability	173	173	8	6	0.960
Political Instability	161	155	8	6	0.905
Government Effectiveness	159	156	10	8	0.921
Regulatory Quality	167	166	8	8	0.923
Rule of Law	169	166	10	10	0.966
Control of Corruption	160	155	13	11	0.952

Table 4: Assigning Countries to Governance Categories

		Countries with 90% Confidence Interval Entirely Within:	
		<u>Bottom Third</u>	<u>Top Third</u>
Voice	Number	31	42
	% of Total	18%	24%
Political Stability	Number	22	30
	% of Total	14%	19%
Government Effectiveness	Number	22	33
	% of Total	14%	21%
Regulatory Quality	Number	22	23
	% of Total	13%	14%
Rule of Law	Number	20	38
	% of Total	12%	22%
Control of Corruption	Number	20	39
	% of Total	13%	24%

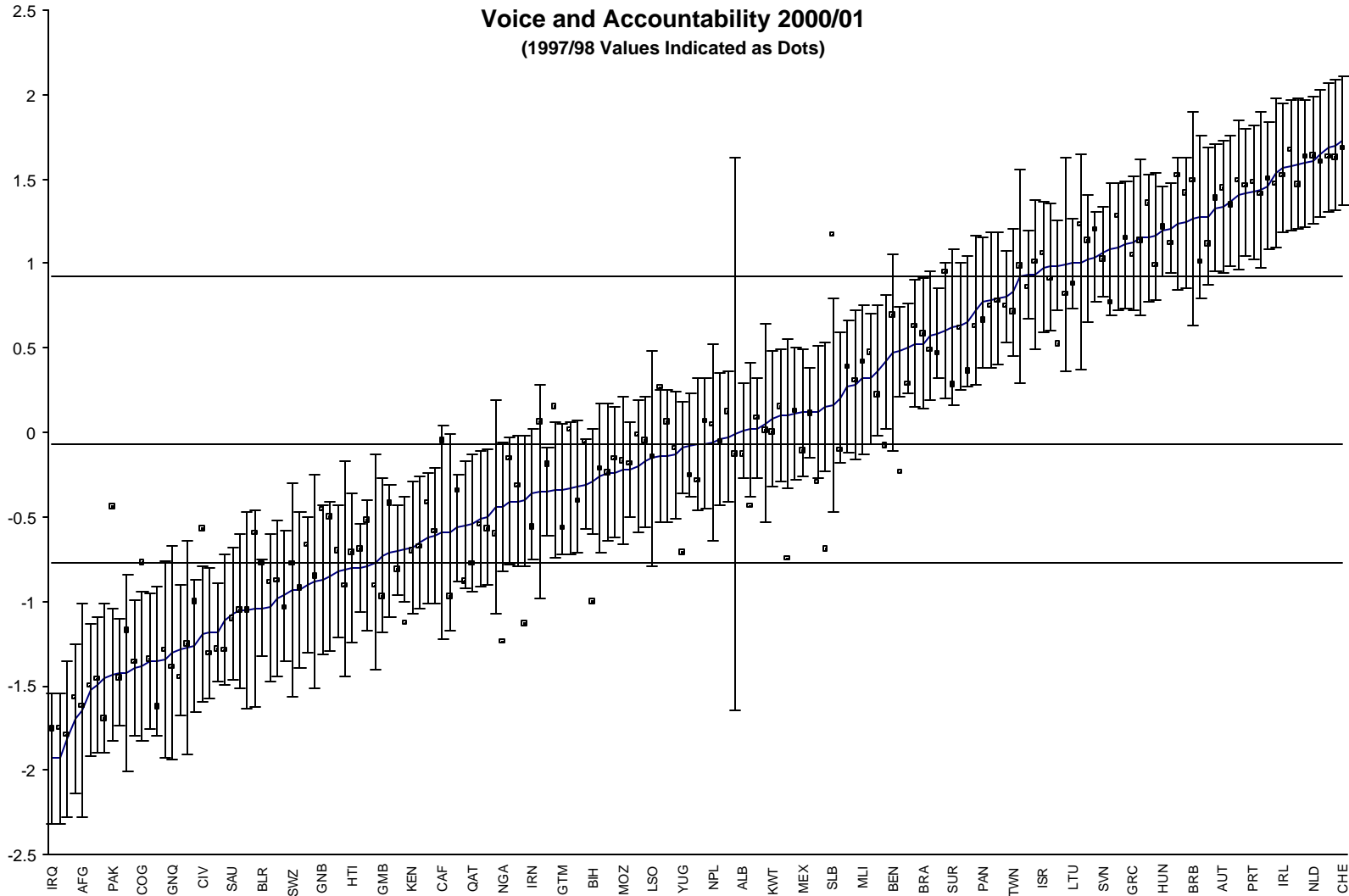
Table 5: Parameter Estimates

	VA 2000/01	VA 1997/98	PS 2000/01	PS 1997/98	GE 2000/01	GE 1997/98	RQ 2000/01	RQ 1997/98	RL 2000/01	RL 1997/98	CC 2000/01	CC 1997/98
Intercept (α)												
CUD	0.550	..	0.666	..	0.515	..	..	..	0.493	..	0.366	..
DRI	..	..	0.690	0.370	0.434	0.539	0.759	0.804	0.601	0.668	0.488	0.539
EIU	0.369	0.370	0.511	0.520	0.404	0.432	..	..	0.427	0.442	0.297	0.312
FRH	0.542	0.520	..	..	..	..	..	..	..	..	..	..
HWJ	..	..	..	..	..	..	0.482	0.468	0.444	0.466	..	..
PRS	0.606	0.605	0.723	0.605	0.570	0.789	0.578	0.608	0.632	0.606	0.464	0.506
WBS	0.344	0.448	0.429	0.448	0.533	0.473	0.494	0.563	0.542	0.354	0.534	0.465
BPS	..	..	..	..	..	..	..	..	..	..	0.797	..
BRI	..	..	0.636	0.532	0.391	0.406	..	..	0.336	0.404	0.477	0.483
CER	..	..	..	0.445	..	..	..	..	..	0.604	..	0.615
EBR	..	..	..	..	..	..	0.502	0.592	..	..	..	..
FHT	0.499	0.532	..	..	0.612	0.624	..	..	0.489	0.566	0.465	0.561
GCS	..	..	0.570	0.469	0.372	0.398	0.431	0.470	0.472	0.526	0.567	0.493
GCSA	..	..	..	..	..	0.470	..	0.431	..	0.499	..	0.498
GMS	0.378	..	0.200	..	0.115	..	..	..	0.198	..	0.551	0.470
LBO	..	..	..	..	..	..	..	..	..	..	0.364	..
PWC	..	..	..	..	0.518	..	0.567	..	..	..	0.683	..
PRC	..	..	..	..	..	..	..	..	..	..	0.286	0.302
WCY	0.378	0.469	0.451	..	0.277	0.307	0.443	0.392	0.337	0.382	0.160	0.212
Slope (β)												
CUD	0.220	..	0.211	..	0.218	..	..	..	0.241	..	0.305	..
DRI	..	..	0.226	0.292	0.283	0.239	0.163	0.128	0.225	0.179	0.259	0.221
EIU	0.278	0.292	0.297	0.280	0.241	0.226	..	..	0.268	0.285	0.284	0.309
FRH	0.272	0.280	..	..	..	..	..	..	..	..	..	..
HWJ	..	..	..	..	..	..	0.154	0.164	0.272	0.247	..	..
PRS	0.246	0.247	0.129	0.247	0.095	0.109	0.152	0.139	0.182	0.220	0.159	0.142
WBS	0.008	0.060	0.082	0.060	0.076	0.097	0.028	0.009	0.083	0.135	0.141	0.150
BPS	..	..	..	..	..	..	..	..	..	..	0.123	..
BRI	..	..	0.153	0.332	0.145	0.133	..	..	0.232	0.136	0.166	0.173
CER	..	..	..	0.096	..	..	..	..	..	0.380	..	0.359
EBR	..	..	..	..	..	..	0.133	0.235	..	..	..	..
FHT	0.364	0.332	..	..	0.355	0.396	..	..	0.349	0.397	0.333	0.513
GCS	..	..	0.136	0.042	0.126	0.151	0.122	0.259	0.203	0.148	0.160	0.247
GCSA	..	..	..	..	..	0.112	..	1.105	..	0.041	..	0.297
GMS	0.108	..	0.041	..	0.041	..	..	..	0.038	..	0.148	0.149
LBO	..	..	..	..	..	..	..	..	..	..	0.136	..
PWC	..	..	..	..	0.080	..	0.096	..	..	..	0.099	..
PRC	..	..	..	..	..	..	..	..	..	..	0.325	0.299
WCY	0.107	0.042	0.283	..	0.141	0.120	0.181	0.290	0.208	0.156	0.293	0.284
Standard Deviation of Error (σ)												
CUD	0.915	..	0.801	..	0.608	..	..	..	0.743	..	0.491	..
DRI	..	..	0.569	0.519	0.482	0.588	0.521	0.608	0.398	0.583	0.537	0.618
EIU	0.507	0.519	0.402	0.386	0.366	0.396	..	..	0.567	0.445	0.426	0.322
FRH	0.419	0.386	..	..	..	..	..	..	..	..	..	..
HWJ	..	..	..	..	..	..	0.827	0.754	0.606	0.751	..	..
PRS	0.409	0.495	0.866	0.495	0.628	1.222	1.007	1.032	0.759	0.656	0.849	1.129
WBS	16.832	1.720	2.068	1.720	0.982	0.685	3.495	4.576	0.929	0.681	0.554	0.636
BPS	..	..	..	..	..	..	..	..	..	..	0.568	..
BRI	..	..	0.613	0.301	0.565	0.707	..	..	0.475	0.687	1.291	1.226
CER	..	..	..	1.395	..	..	..	..	..	0.303	..	0.356
EBR	..	..	..	..	..	..	1.041	0.353	..	..	..	..
FHT	0.223	0.301	..	..	0.476	0.440	..	..	0.322	0.454	0.338	0.511
GCS	..	..	1.086	2.735	0.536	0.600	0.810	0.382	0.410	0.594	0.502	0.457
GCSA	..	..	..	..	..	0.450	..	0.433	..	1.695	..	0.406
GMS	1.047	..	2.402	..	2.680	..	..	..	2.533	..	0.895	0.709
LBO	..	..	..	..	..	..	..	..	..	..	0.515	..
PWC	..	..	..	..	0.743	..	0.860	..	..	..	0.659	..
PRC	..	..	..	..	..	..	..	..	..	..	0.351	0.270
WCY	1.060	2.735	0.590	..	0.675	0.906	0.547	0.415	0.521	0.580	0.516	0.498

Table 6: Variance Decomposition for Changes in Governance Estimates

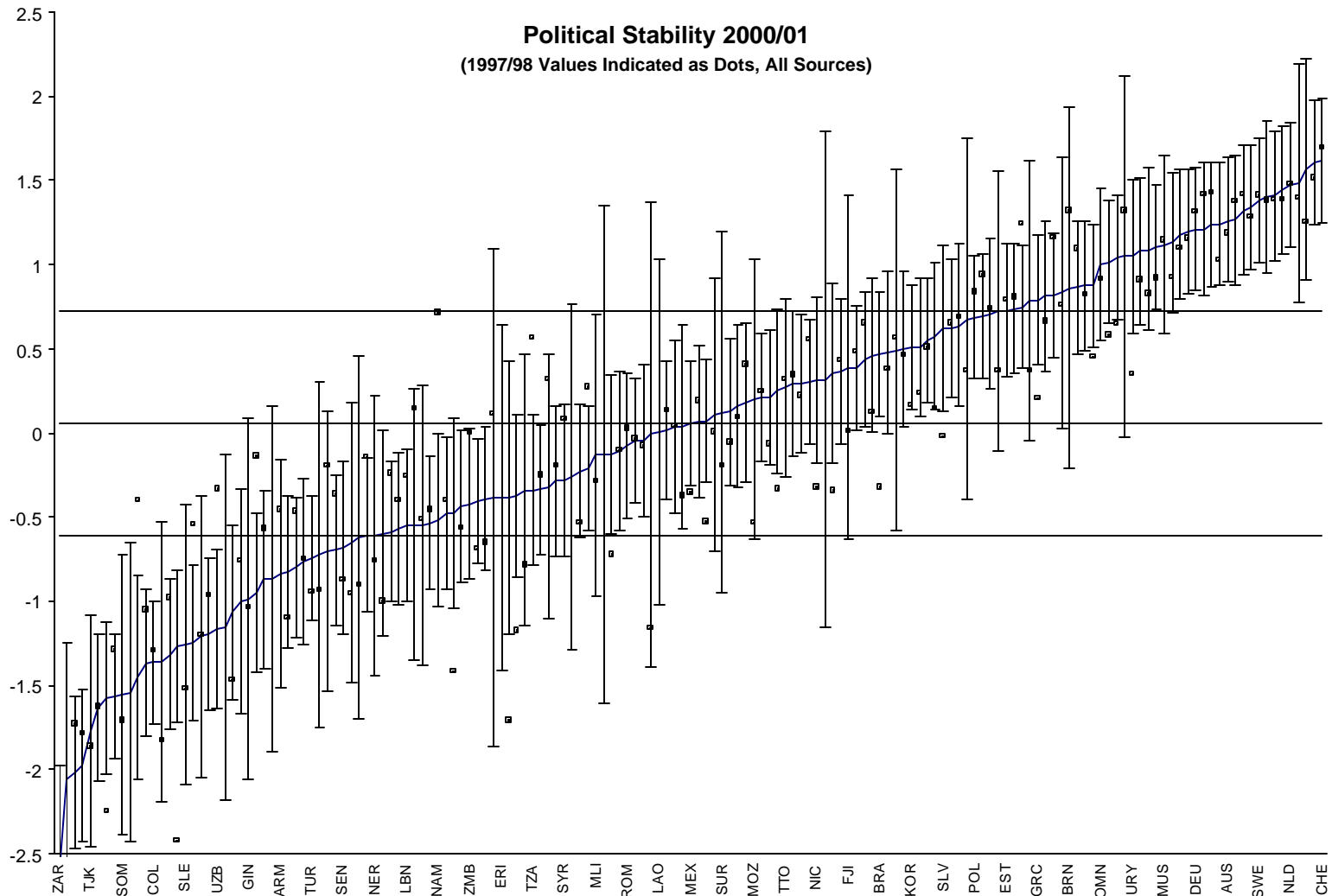
	(1)	(2)	(3)	(4)
	Standard Deviation of Changes in Estimated Governance	Fraction of Variance of Changes in Estimated Governance Due to Changes in Balanced Indicator	Fraction of Variance of Changes in Balanced Indicator Due to Changes in Underlying Sources	Fraction of Variance of Changes in Estimated Governance Due to Changes in Underlying Sources
Voice and Accountability	0.09	0.95	0.97	0.92
Political Stability	0.12	1.05	0.82	0.86
Government Effectiveness	0.12	0.95	0.88	0.84
Regulatory Quality	0.11	0.80	0.95	0.76
Rule of Law	0.08	0.67	0.85	0.57
Control of Corruption	0.12	0.46	0.92	0.43

Figure 1: Estimates of Governance



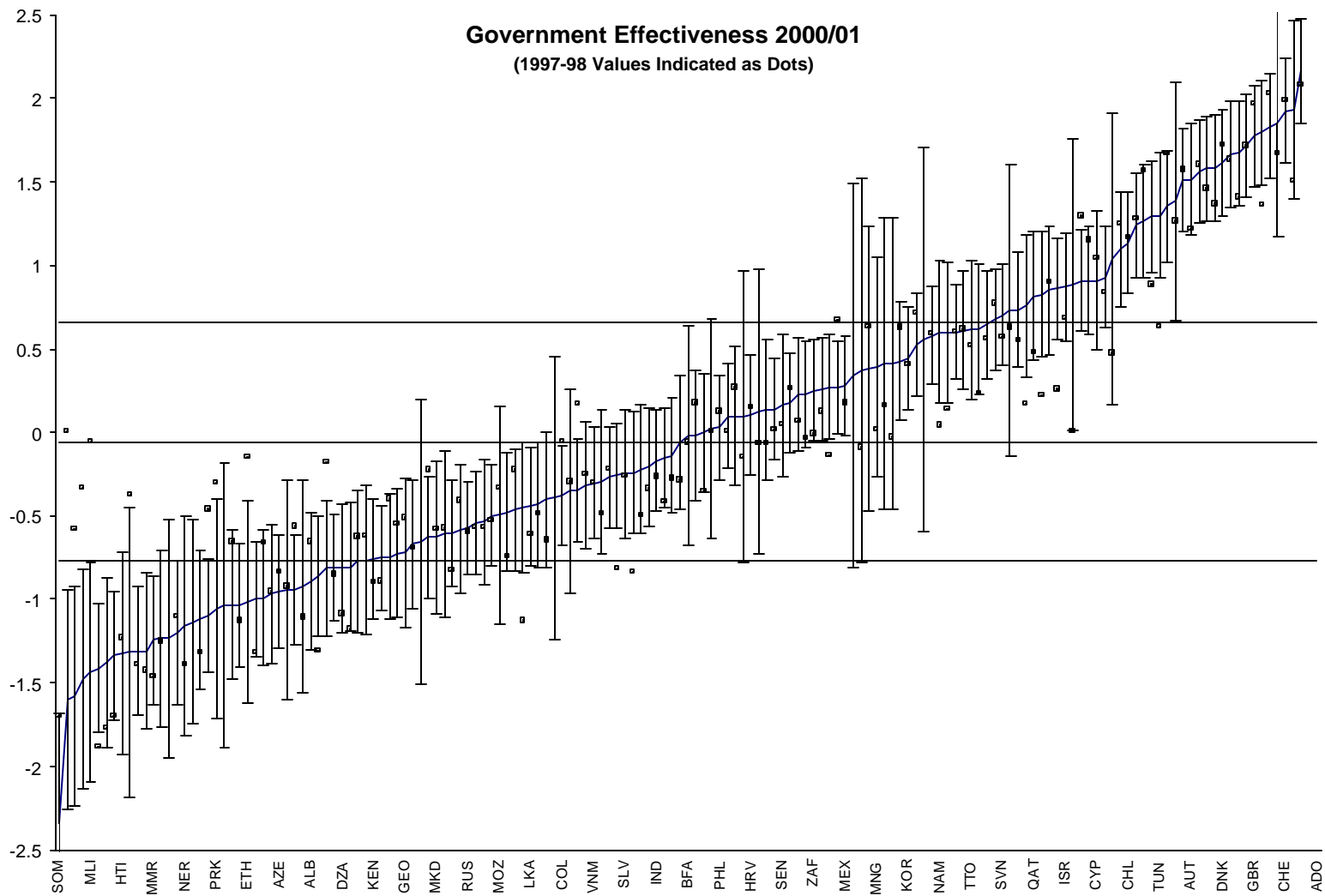
Note: This graph shows estimates of the indicated dimension of governance (on the vertical axis) for all countries for which data is available (on the horizontal axis) for 2000/01. The vertical bars show the statistically-likely range of values of governance for each country, with the midpoint of each bar corresponding to the best single estimate. The length of these bars varies with the amount of information available for each country, and the extent to which information from different sources correspond with each other. Estimates of governance for 1997/98 are indicated as dots. Selected countries are indicated on the horizontal axis. As emphasized in the text, the ranking of countries along the horizontal axis is subject to significant margins of error, and this ordering in no way reflects the official view of the World Bank, its Executive Directors, or the countries they represent.

Figure 1, Cont'd: Estimates of Governance



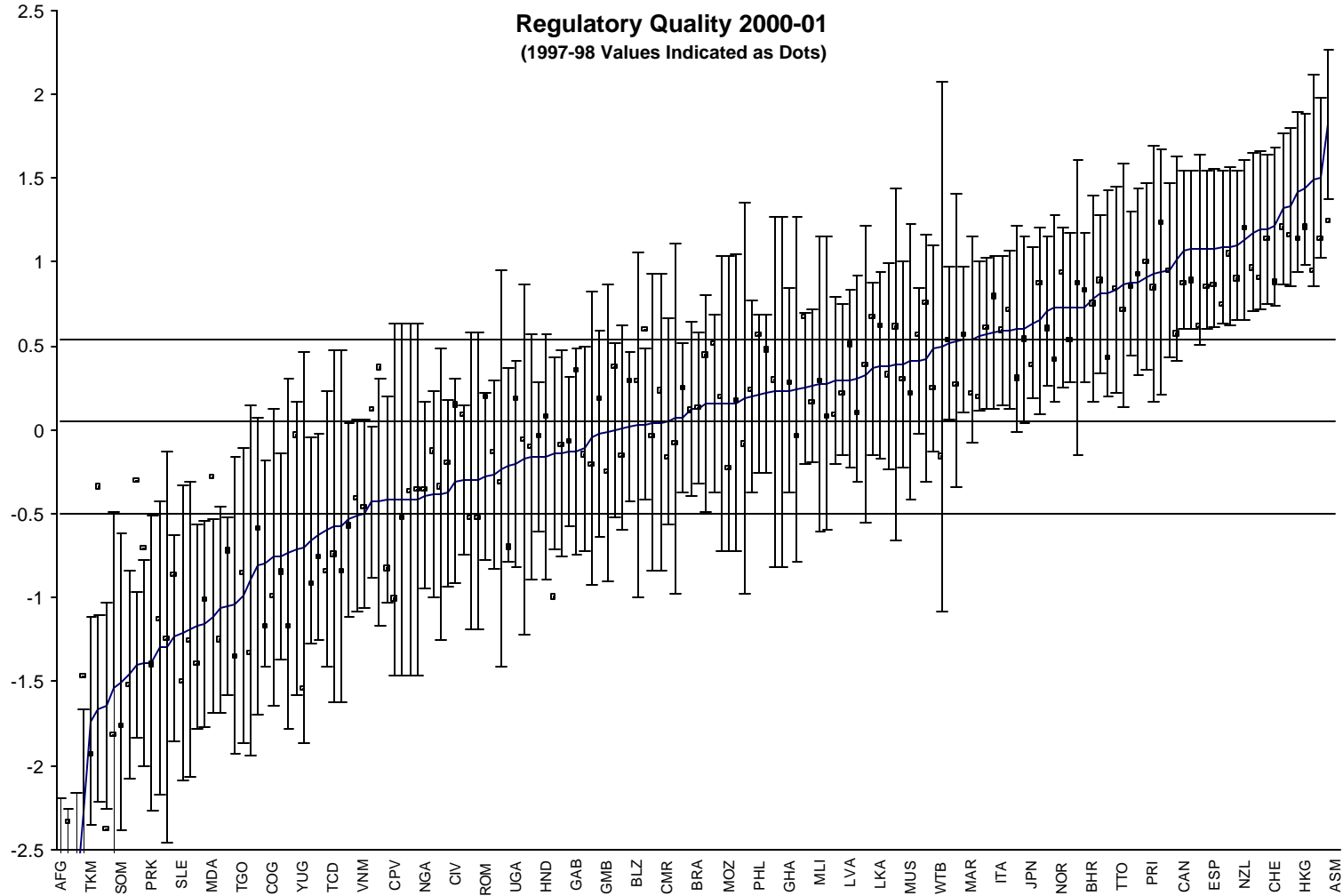
Note: This graph shows estimates of the indicated dimension of governance (on the vertical axis) for all countries for which data is available (on the horizontal axis) for 2000/01. The vertical bars show the statistically-likely range of values of governance for each country, with the midpoint of each bar corresponding to the best single estimate. The length of these bars varies with the amount of information available for each country, and the extent to which information from different sources correspond with each other. Estimates of governance for 1997/98 are indicated as dots. Selected countries are indicated on the horizontal axis. As emphasized in the text, the ranking of countries along the horizontal axis is subject to significant margins of error, and this ordering in no way reflects the official view of the World Bank, its Executive Directors, or the countries they represent.

Figure 1, Cont'd: Estimates of Governance



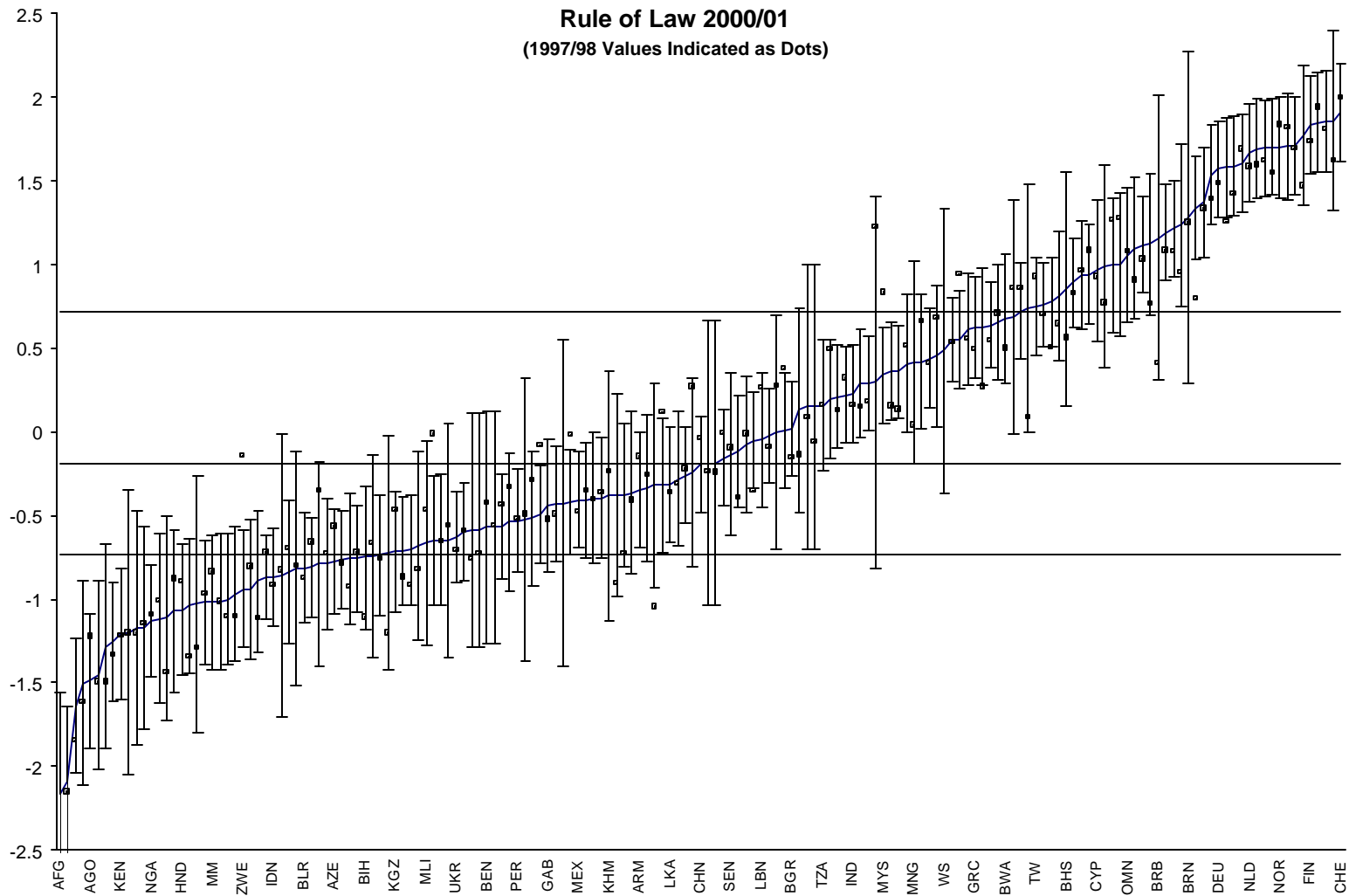
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Figure 1, Cont'd: Estimates of Governance



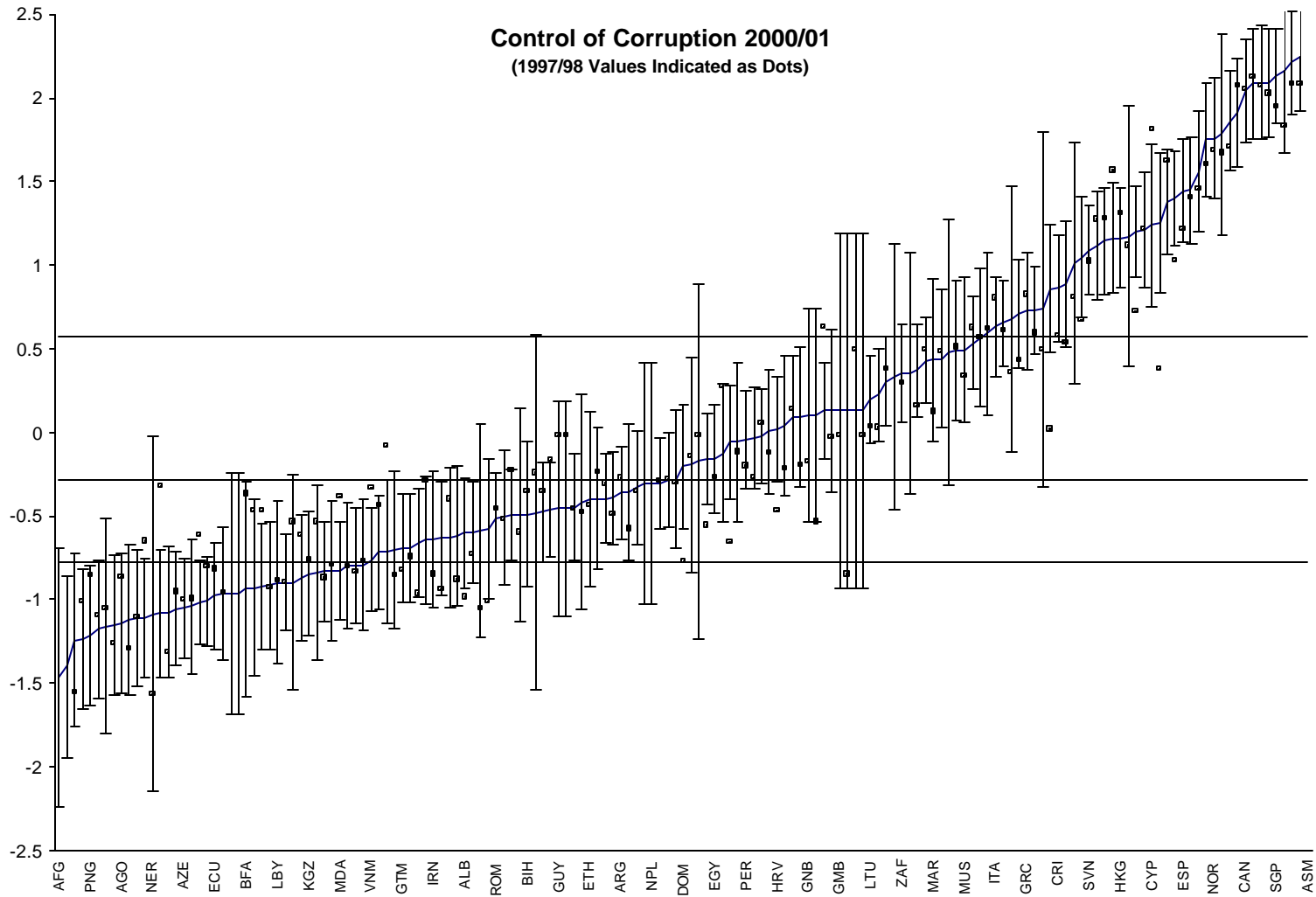
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Figure 1, Cont'd: Estimates of Governance



Note: This graph shows estimates of the indicated dimension of governance (on the vertical axis) for all countries for which data is available (on the horizontal axis) for 2000/01. The vertical bars show the statistically-likely range of values of governance for each country, with the midpoint of each bar corresponding to the best single estimate. The length of these bars varies with the amount of information available for each country, and the extent to which information from different sources correspond with each other. Estimates of governance for 1997/98 are indicated as dots. Selected countries are indicated on the horizontal axis. As emphasized in the text, the ranking of countries along the horizontal axis is subject to significant margins of error, and this ordering in no way reflects the official view of the World Bank, its Executive Directors, or the countries they represent.

Figure 1, Cont'd: Estimates of Governance



Note: This graph shows estimates of the indicated dimension of governance (on the vertical axis) for all countries for which data is available (on the horizontal axis) for 2000/01. The vertical bars show the statistically-likely range of values of governance for each country, with the midpoint of each bar corresponding to the best single estimate. The length of these bars varies with the amount of information available for each country, and the extent to which information from different sources correspond with each other. Estimates of governance for 1997/98 are indicated as dots. Selected countries are indicated on the horizontal axis. As emphasized in the text, the ranking of countries along the horizontal axis is subject to significant margins of error, and this ordering in no way reflects the official view of the World Bank, its Executive Directors, or the countries they represent.

Figure 2: Weights Used to Aggregate Individual Sources

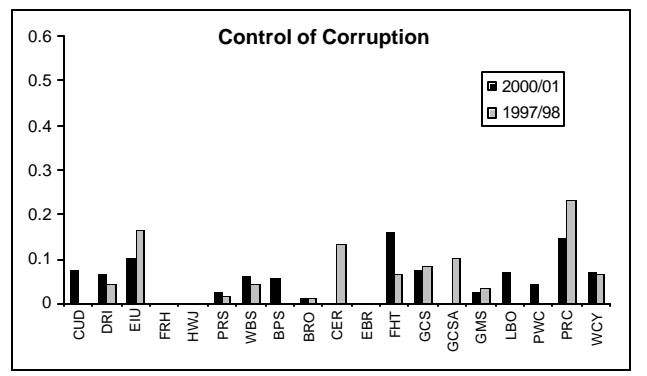
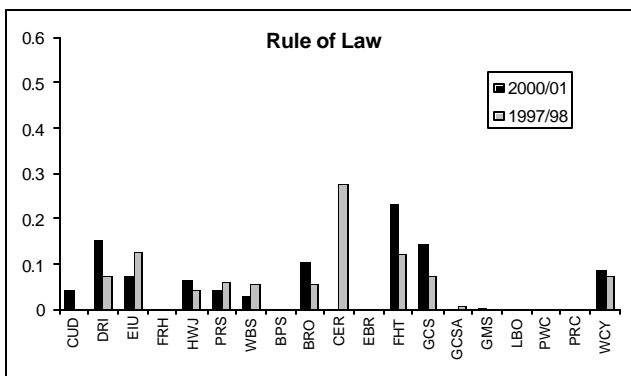
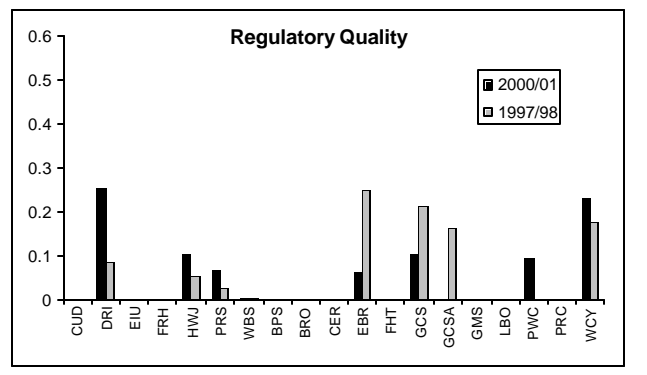
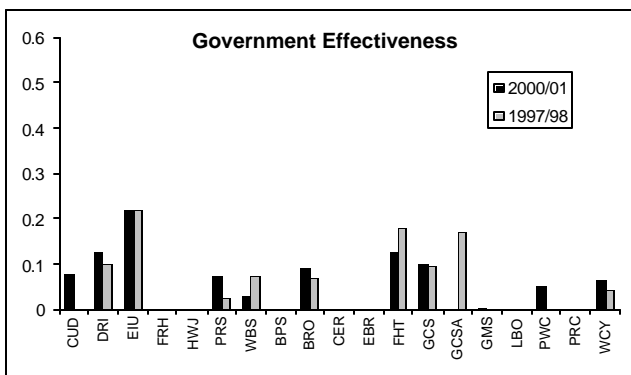
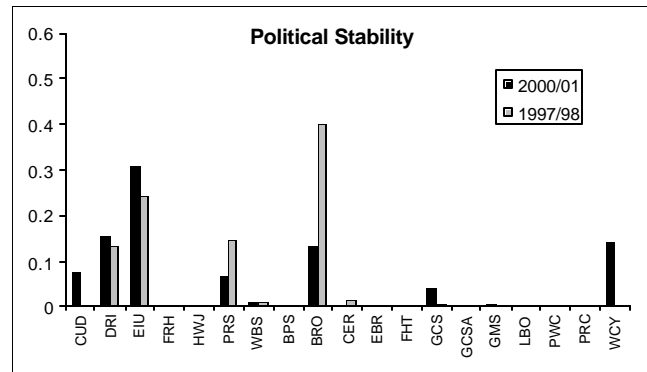
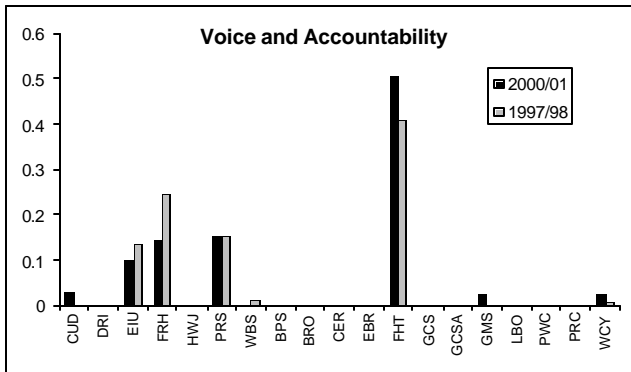


Table A1

Business Environment Risk Intelligence (BRI)

<http://www.beri.com>

BERI S.A. is a private source of analysis and forecasts of the business environment in developed and developing countries. The firm was founded in 1966 and is headquartered in Geneva, Switzerland.

BERI has two services that include variables of interest for the purpose of this paper: The Business Risk Service, and The FORELEND or Lender Risk Rating. Both services are supervised by Dr. F.T. Haner, founder and senior editor. A number of analysts review various data sources and produce initial draft reports, relying on an international network of sources for intelligence in the field. BERI convenes two permanent panels of about 105 experts from all over the world. These panels provide country ratings and qualitative observations on the basis of these initial reports. One panel assesses political conditions, and the other offers perspectives on the business operating environment. These ratings are constructed using the Delphi method, in which panelists are also supplied with the ratings they produced in previous assessments as well as the panel average score for

BRS monitors 50 countries three times per year, assessing 57 criteria separated into three indices. The Political Risk Index (PRI) focuses on sociopolitical conditions in a country. Diplomats and political scientists rate the present condition of eight causes and two symptoms of political risk, using a scale from 7 (no problem) to 0 (prohibitive problem). The Operation Risk Index (ORI) identifies major bottlenecks for business development, rating 15 criteria on a scale of 0 (unacceptable conditions) to 4 (superior conditions). The R factor assesses a country's willingness to allow foreign companies to convert and repatriate profits and to import components, equipment and raw materials. It is composed of 4 sub-indices, one of which assesses the quality of legal framework in terms of statutory laws and actual practice.

In the table below we list the variables included in each of the governance indicators. We use BERI's data for the first quarter of 2001.

Business Environment Risk Intelligence: By Aggregate Governance Indicator

Voice and Accountability

NA

Political Stability

Political Risk Index: Internal Causes of Political Risk: Fractionalization of political spectrum and the power of these factions.

Political Risk Index: Internal Causes of Political Risk: Fractionalization by language, ethnic and/or religious groups and the power of these factions.

Political Risk Index: Internal Causes of Political Risk: Restrictive (coercive) measures required to retain power.

Political Risk Index: Internal Causes of Political Risk: Organization and strength of forces for a radical

Political Risk Index: Symptoms of Political Risk: Societal conflict involving demonstrations, strikes, and street

Political Risk Index: Symptoms of Political Risk: Instability as perceived by non-constitutional changes, assassinations, and guerilla wars.

Government Effectiveness

Operation Risk Index: Bureaucratic delays

Regulatory Quality

NA

Rule of Law

Operation Risk Index: Enforceability of contracts

Control of Corruption

Political Risk Index: Internal Causes of Political Risk: Mentality, including xenophobia, nationalism, corruption, nepotism, willingness to compromise, etc.

Table A2

State Failure Task Force State Capacity Survey (CUD)

In 1999 the State Failure Task Force decided to experiment with a new way to measure state capacity that relied on a survey of country experts. Under the direction of Marc Levy of the CIESIN at Columbia University, a survey instrument was developed and tested, resulting in a set of 31 multiple-choice questions and three open-ended questions. The survey asks questions in five broad categories: political context, state legitimacy, human resources and organizations, institutions, and overall capacity. Following a trial period that resulted in refinements, the survey was placed on a web site, where it could be completed online. Data were then obtained on 109 countries from assessments completed by 209 experts during 2001.

In the table below we list the questions included in each of the governance indicators.

State Capacity Survey: By Aggregate Governance Indicator

Voice and Accountability

Question 10. For the most part, is the state seen as legitimately representing its citizens?

Political Stability

Question 3. Assess the degree to which the decline or collapse of central political authority posed a threat to political stability in this country.

Question 5. Assess the degree to which political protest or rebellion posed a threat to political stability in this country.

Question 7. Assess the degree to which ethno-cultural and/or religious conflict posed a threat to political stability in this country.

Question 11. To what extent does the state and/or its allied groups engage in repression of its citizens?

Government Effectiveness

Question 13. Rate the administrative and technical skills of the country's civil service (occupying middle and higher management roles).

Question 16. Rate the efficiency of the country's national bureaucracies overall.

Question 17. Rate the efficiency of the country's local-level government bureaucracies overall.

Question 18. Rate the effectiveness of coordination between the central government and local-level government organizations.

Question 21. Rate the state's ability to formulate and implement national policy initiatives.

Question 22. Rate the state's effectiveness at collecting taxes or other forms of government revenue.

Question 23. Does the central government produce a national budget in a timely manner?

Question 24. Do local governments produce budgets in a timely manner?

Question 27. Rate the state's ability to monitor socioeconomic trends, activities, and conditions within its borders

Question 28. Rate the state's ability to create, deliver, and maintain vital national infrastructure.

Question 29. Rate the state's ability to respond effectively to domestic economic problems.

Question 30. Rate the effectiveness of the state's coercive responses to domestic political crises, including political protest, rebellion, and ethno-cultural or religious conflict. Here effectiveness refers to the state's ability to contain or control the crisis.

Question 31. Rate the state's ability to respond effectively to natural disasters.

Regulatory Quality

NA

Rule of Law

Question 20. In carrying out internal security tasks, to what extent does the state rely on tactics commonly considered illegitimate in the international community?

Question 25. Rate the state's adherence to the rule of law, considering the country as a whole.

Question 26. Is there significant variation in how the rule of law is applied across groups within the country?

Control of Corruption

Question 15. Rate the severity of corruption within the state

Table A3

Standard and Poor's DRI/McGraw-Hill (DRI)

<http://economics.dri-wefa.com/main.html>

DRI is an economic consulting and information company which provides data, analysis, forecasts and expert advice to strategic planners, business and financial analysts, and policy makers. It was founded in 1973 as a unit of Standard & Poor's and is based in the United States.

In 1996, DRI launched the Country Risk Review (CRR), a quarterly publication providing country risk assessments to international investors. A first draft of the risk ratings in this publication are produced by country analysts, who then submit their preliminary assessment to regional review committees charged with analyzing and challenging these assessment. The global risk service committee evaluates the reviewed assessments to ensure quality and cross-country consistency. The country analysts then produce the final country risk review.

The CRR assesses the relationship between country risk and its effects on the profitability of investments. For each country, DRI identifies a number of "potential sources of risk", specifies measurable "risk events", measures how probable those risk events are, and assesses the severity of impact that each outcome would have. Based on these considerations, DRI produces a risk score for each country.

The CRR identifies a total of 33 "immediate risk events" and 18 "secondary risk events" for 111 developed and developing countries. Immediate risk events are classified into policy risks (tax, and non-tax), and outcome risks (price, and non-price). Secondary risk events are classified into domestic political risks, external political risks, and economic risks. These risk events are described in below.

For each risk event, DRI produces a short run and a long run risk rating. These ratings provide subjective estimates of the likelihood that a particular risk event will occur within one and five years respectively. DRI follows a methodology to ensure that the five year forecasts are consistent with the short-term forecasts. Although these indicators nominally measure the likelihood of future changes in governance concepts, in practice the long-run ratings provide good measures of the current levels of governance.

In the table below we list the variables included in each of the governance indicators. Variable definitions consist of risk events. The actual ratings provide an estimated probability of these events happening. In this paper, we use data for the fourth quarter of 2000.

Standard and Poor's DRI/McGraw-Hill: by Aggregate Governance Indicator

Voice and Accountability

NA

Political Stability

Domestic Political Risks: Military Coup Risk: A military coup d'etat (or a series of such events) that reduces the GDP growth rate by 2% during any 12-month period.

Domestic Political Risks: Major Insurgency/Rebellion: An increase in scope or intensity of one or more insurgencies/rebellions that reduces the GDP growth rate by 3% during any 12-month period.

Domestic Political Risks: Political Terrorism: An increase in scope or intensity of terrorism that reduces the GDP growth rate by 1% during any 12-month period.

Domestic Political Risks: Political Assassination: A political assassination (or a series of such events) that reduces the GDP growth rate by 1% during any 12-month period.

Domestic Political Risks: Civil War: An increase in scope or intensity of one or more civil wars that reduces the GDP growth rate by 4% during any 12-month period.

Domestic Political Risks: Major Urban Riot: An increase in scope, intensity, or frequency of rioting that reduces the GDP growth rate by 1% during any 12-month period.

Table A3, Cont'd

Standard and Poor's DRI/McGraw-Hill: by Aggregate Governance Indicator (Cont'd)

Government Effectiveness

Domestic Political Risk: Government Instability: An increase in government personnel turnover rate at senior levels that reduces the GDP growth rate by 2% during any 12-month period.

Domestic Political Risk: Government Ineffectiveness: A decline in government personnel quality at any level that reduces the GDP growth rate by 1% during any 12-month period.

Domestic Political Risk: Institutional Failure: A deterioration of government capacity to cope with national problems as a result of institutional rigidity or gridlock that reduces the GDP growth rate by 1% during any 12-

Regulatory Quality

Policies Non-Tax: Regulations -- Exports: A 2% reduction in export volume as a result of a worsening in export regulations or restrictions (such as export limits) during any 12-month period, with respect to the level at the time of the assessment.

Policies Non-Tax: Regulations -- Imports: A 2% reduction in import volume as a result of a worsening in import regulations or restrictions (such as import quotas) during any 12-month period, with respect to the level at the time of the assessment.

Policies Non-Tax: Regulations -- Other Business: An increase in other regulatory burdens, with respect to the level at the time of the assessment, that reduces total aggregate investment in real LCU terms by 10%

Policies Non-Tax: Ownership of Business by Non-Residents: A 1-point increase on a scale from "0" to "10" in legal restrictions on ownership of business by non-residents during any 12-month period.

Policies Non-Tax: Ownership of Equities by Non-Residents: A 1-point increase on a scale from "0" to "10" in legal restrictions on ownership of equities by non-residents during any 12-month period.

Rule of Law

Outcomes Non-Price: Losses and Costs of Crime: A 1-point increase on a scale from "0" to "10" in crime during any 12-month period.

Domestic Political Risk: Kidnapping of Foreigners: An increase in scope, intensity, or frequency of kidnapping of foreigners that reduces the GDP growth rate by 1% during any 12-month period.

Policies Non-Tax: Enforceability of Government Contracts: A 1 point decline on a scale from "0" to "10" in the enforceability of contracts during any 12-month period.

Policies Non-Tax: Policies Non-Tax: Enforceability of Private Contracts: A 1-point decline on a scale from "0" to "10" in the legal enforceability of contracts during any 12-month period.

Control of Corruption

Risk Event Outcome non-price: Losses and Costs of Corruption: A 1-point increase on a scale from "0" to "10" in corruption during any 12-month period.

Table A4

European Bank for Reconstruction and Development (EBRD)

<http://www.ebrd.org>

The EBRD is an international organization which supports the transition towards open market-oriented economies and promotes private and entrepreneurial initiative in the countries of Central and Eastern Europe and the Commonwealth of Independent States (CIS). The EBRD is based in London.

The EBRD publishes an annual Transition Report, which includes a number of governance variables in its Transition Indicators and Survey of Legal Reforms. The Transition Report presents eight "Transition Indicators" representing "cumulative progress in the movement from a centrally planned economy to a market economy" for 26 transition economies. The subjective indicators are based on a checklist of various objective measures and reflect the views of EBRD staff.

Beginning In 1998, the EBRD has conducted a survey of local public officials, private firms, academics, lawyers, and other experts, in order to assess the progress made in financial legal reform in transition economies. The survey considered two areas of financial legal reform: banking and securities activities. For each area, two indices describing the extensiveness and effectiveness of the financial legal framework were developed, for a total of four ratings. The "extensiveness" ratings measure how closely legal rules affecting investment follow international standards. "Effectiveness" reflects how clear, accessible and adequately-supported the legal rules are. Both are intended to provide a measure of how conducive the laws of these countries are to fostering investment. This survey covered 26 countries.

In this paper we use data from the 2001 Transition Report. In the table below we list the variables included in each of the governance indicators.

European Bank for Reconstruction and Development by Aggregate Governance Indicator

Voice and Accountability

NA

Political Stability

NA

Government Effectiveness

NA

Regulatory Quality

Price liberalisation

Trade & foreign exchange system

Competition policy

Commercial Law Extensiveness

Commercial Law Effectiveness

Financial Regulations: extensiveness

Financial regulations: effectiveness

Large-scale privatisation

Small-scale privatisation

Governance & enterprise restructuring

Banking reform & interest rate liberalisation

Securities markets & non-bank financial institutions

Banruptcy law

Rule of Law

NA

Control of Corruption

NA

Table A5
The Economist Intelligence Unit (EIU)
<http://www.eiu.com>

The Economist Intelligence Unit is a for-profit organization producing analysis and forecasts of the political, economic and business environment in more than 180 countries. The EIU was founded in 1949 and is based in London. In 1997, the EIU launched two quarterly publications which contain some governance measures: The Country Risk Service, and the Country Forecasts. The assessments in these publications are based on regular contributions from a global network of more than 500 information-gatherers. A panel of regional experts checks the accuracy, consistency and impartiality of these assessments.

Country Risk Service (CRS). The CRS provides international investors with risk ratings for seven broad categories of country risk—Political, Economic Policy, Economic Structure, Liquidity, Currency, Sovereign Debt, and Banking Sector—and covers 100 emerging markets. Within each category, subjective assessments are produced for a number of sub-issues.

Country Forecasts (CF). The CFs measure the quality or attractiveness of the business environment in 60 countries. The rankings examine ten separate criteria—the political environment, the macroeconomic environment, market opportunities, policy towards free enterprise and competition, policy towards foreign investment, foreign trade and exchange controls, taxes, financing, the labor market and infrastructure—and are designed to reflect the main criteria used by companies to formulate their global business strategies. Each criteria covers a number of issues for which two assessments are produced: A historical rating, covering the last 5 years, and a forecast rating covering the next five years. For the purpose of this paper, the most interesting

Combining the CRS and CF Ratings. The Political Risk rating from the CRS and the Political Environment ratings from the CF ratings cover almost identical concepts, although using different rating scales. We convert the CF ratings to the same units as the CRS ratings, and augment the CRS ratings with the CF ratings for the 15 mostly OECD economies appearing in the CF but not the CRS. This results in an indicator covering 115 developed and developing countries.

In the table below we list the variables included in each of the governance indicators. In this paper, we combine data from the 2001 first quarter edition of the Country Risk Service, and from the 2001 historical risk rating from the Country Forecast.

Economist Intelligence Unit: by Aggregate Governance Indicator

Voice and Accountability

Political Stability: Change in government, orderly transfer
 Political Effectiveness: Legal system / transparency and fairness

Political Stability

Political Stability: Armed conflict / War
 Political Stability: Social unrest
 Political Stability: Politically motivated violence / Terrorist threat

Government Effectiveness

Political Effectiveness: Govt. policy / Pro business orientation
 Political Effectiveness: Government efficacy / Institutional effectiveness
 Political Effectiveness: Bureaucracy / Red tape

Regulatory Quality

NA

Rule of Law

Political Effectiveness: Crime
 Corruption of Bank Officials

Control of Corruption

Political Effectiveness: Corruption among public officials

Table A6

Freedom House (FRH, FNT)

<http://www.freedomhouse.org>.

Freedom House is a non-governmental organization which promotes democratic values around the world. Freedom House was established in 1941 and is headquartered in New York City.

We rely on data from two Freedom House publications. "Freedom in the World" was launched in 1955, and became an annual publication in 1978, and covers 191 countries and 60 related territories. "Nations in Transit" was launched in 1995 and covers 28 post-communist countries. Freedom House develops its assessments using a team of academic advisors, in-house experts, published resources, and local correspondents including human rights activists, journalists, editors and political figures. Freedom House staff also conduct regular fact-finding missions to countries being assessed. An academic advisory board provides input to the project in general.

Freedom in the World (FRH). This publication evaluates political rights and civil liberties around the world. Freedom House defines political rights as those freedoms that enable people to participate freely in the political process, and civil liberties as the freedom to develop views, institutions and personal autonomy apart from the state. For all countries, the subjective assessments are based on checklists of rights and freedoms. A Freedom House team assigns a rating to each item on the checklist and produces an initial assessment for each country. The team then assess whether the checklists might have missed an important factor for a particular country. The scores are then reviewed to ensure quality and consistency across countries, and a final rating is produced.

Freedom House Nations in Transit (FNT). This publication evaluates the progress in democratic and economic reform in post-communist countries. Country surveys are written by Freedom House staff or consultants and are reviewed by academics and senior Freedom House staff. Each report is divided into nine sections, ranging from the political process to progress in price liberalization. For each section, a preliminary rating is based on a checklist of issues. The academic oversight board establishes the final ratings by consensus following extensive discussions and debate, which are reviewed by the Freedom House rating

In the table below we list the variables included in each of the governance indicators. In this paper we use data from the 2001-2002 edition of Freedom in the World and the 20001 edition of Nations in Transit.

Freedom in the World / Nations in Transit: By Aggregate Governance Indicator

Voice and Accountability

Political Rights

Is the head of state and/or head of government or other chief authority elected through free and fair elections?

Are the legislative representatives elected through free and fair elections?

Are there fair electoral laws?

Are the voters able to elect their freely elected representatives with real power?

Do the people have the right to freely organize in different political parties or other competitive political groupings of their choice, and is the system open to the rise and fall of these competing parties or groupings?

Is there a significant opposition vote, de facto opposition power, and a realistic possibility for the opposition to increase its support or gain power through elections?

Are the people free from domination by the military, foreign powers, totalitarian parties, religious hierarchies, economic oligarchies or any other powerful groups?

Do cultural, ethnic, religious and other minority groups have reasonable self-determination, self-government, autonomy or participation through informal consensus in the decision-making process?

Table A6, Cont'd

Freedom in the World / Nations in Transit: By Aggregate Governance Indicator, Cont'd

Civil Liberties

Are there free and independent media, literature and other cultural expressions? (Note: in cases where the media are state controlled but offer pluralistic points of view, the Survey gives the system credit)

Is there open public discussion and free private discussion?

Is there freedom of assembly and demonstration?

Is there freedom of political or quasi-political organization?

Are citizens equal under the law, with access to an independent, nondiscriminatory judiciary, and are they respected by the security forces?

Is there protection from political terror, and from unjustified imprisonment, exile or torture, whether by groups that support or oppose the system, and freedom from war or insurgency situations?

Are there free trade unions and peasant organizations or equivalents, and is there effective collective

Are there free professional and other private organizations?

Are there free businesses or cooperatives?

Are there free religious institutions and free private and public religious expressions?

Are there personal social freedoms, which include such aspects as gender equality, property rights, freedom of movement, choice of residence, and choice of marriage and size of family?

Are there any denigrating obstacles to a share of legitimate economic gains?

Is there freedom from extreme government indifference and corruption

Freedom of the Press

Laws and Practice: Assess whether or not dissent is allowed, if private media are permitted alongside governmental broadcasting, if independent media, in practice, are permitted to express diverse views

Political Influence over Media Content: This category reflects political pressure on the content of both privately owned and government media, and takes into account the day-to-day conditions in which journalists work, threats from organized crime, or from religious extremists, for example, often generate self-censorship and so negatively affect the media environment

Economic influence over Media Content: Economic influence may come from the government or from private entrepreneurs. This reflects competitive pressures in the private sector that distort reportage as well as economic favoritism or reprisals by government for unwanted press coverage

Actual Incident of Violations of Press Freedom: Murders, arrests, suspension and other violations create a sense of fear which may discourage objective reporting

Nations in Transit

Political Process: Deals with elections, referenda, party configuration, conditions for political competition, and popular participation in elections.

Civil Society: Highlights the degree to which volunteerism, trade unionism, and professional associations exist, and whether civic organizations are influential

Independent Media: Press freedom, public access to a variety of information sources, and the independence of those sources from undue government or other influences.

Political Stability

NA

Government Effectiveness

Nations in Transit

Government and Administration: Government decentralization, independent and responsibilities or local and regional governments, and legislative and executive transparency are discussed.

Regulatory Quality

N/A

Rule of Law

Nations in Transit

minorities.

Control of Corruption

Nations in Transit

Corruption

Table A7
World Economic Forum (GCS)
<http://www.weforum.org>

The World Economic Forum (WEF) is an independent, not-for-profit organization bringing together top leaders from business, government, academia and the media to address key economic, social and political issues in partnership. The WEF was founded in 1971 and is headquartered in Geneva, Switzerland.

Since 1996, The WEF has sponsored the Global Competitiveness Report, an annual publication produced in collaboration with the Harvard Institute for International Development (HIID). As background for this report, the WEF conducts the Global Competitiveness Survey of about 3000 enterprises in 60 countries. This survey measures the perceptions of business executives about the country in which they operate. The survey asks top managers to rank on a 1 to 7 scale their opinion on issues in eight broad areas: 1) Openness, 2) Government, 3) Finance, 4) Infrastructure, 5) Technology, 6) Management, 7) Labor, and 8) Institutions.

In 1997 the WEF sponsored a separate survey of countries in Africa. In the 1997-98 version of the governance indicators, we included this as a separate source since it asked several questions not included in the main GCS. In 2001, the GCS and the World Bank's World Business Environment Survey (WBS) collaborated on a common questionnaire. In order not to use the same information twice, we include these countries in the WBS and exclude them from the GCS.

In the table below we list the variables included in each of the governance indicators. In this paper, we use data from the 2001 GCS.

Global Competitiveness Survey: By Aggregate Governance Indicator

Voice and Accountability

NA

Political Stability

Likelihood of dramatic changes in institutions
New government honors commitments of previous government

Government Effectiveness

Competence of public sector personnel
Wasteful government expenditure
New government honors commitments of previous government
Management time spent with bureaucracy
Public Service vulnerability to political pressure
Government economic policies are independent of pressure from special interest groups.

Regulatory Quality

Tax system hinders performance
Administrative regulations that constrain businesses are minimal.

Rule of Law

Extent of tax evasion
Costs of organized crime for business
Police effectiveness in safeguarding personal security
Independence of the judiciary from interference by the government and/or parties to the dispute
Private business has recourse to independent and impartial courts for challenging the legality of government
Financial Assets and wealth are well protected
Private businesses are more likely to settle disputes outside courts.

Control of Corruption

Additional payments: bureaucracy
Additional payments: judiciary

Table A8

Gallup Millennium Survey

<http://www.gallup-international.com>

Gallup International was founded in May 1947, is registered in Zurich, Switzerland, and has 55 members around the world governed by the same Code of Statutes to ensure technical competence and quality standards.

The Gallup International Millennium Survey (GMS) polled 57,000 adults in 60 different countries of the world between August and October, 1999. The survey covered a wide range of topics of an ethical, political and religious nature, focusing specifically on issues related to democracy, the United Nations, human rights, women's rights, environment, religion, crime and basic values. Since this source asks several questions which also appeared in the 1997 Gallup 50th Anniversary Survey which we used in the 1997-98 version of the aggregate governance indicators, we treat this source as the continuation of the 50th Anniversary Survey.

In the table below we list the variables included in each of the governance indicators.

Gallup Millennium Survey: By Aggregate Governance Indicator

Voice and Accountability

Percent who believe the country is governed by the will of the people

Percent who believe elections are free and fair

Percent who believe the government is accountable

Freedom of speech: 1 (fully respected) - 3 (not respected)

Political Stability

NA

Government Effectiveness

Percent who believe the government is efficient

Regulatory Quality

NA

Rule of Law

Concern with level of crime

Control of Corruption

Percent who believe the government is corrupt

Table A9
Heritage Foundation/Wall Street Journal (HWJ)
<http://www.heritage.org>

The Heritage Foundation is a research and educational institute whose mission is to formulate and promote conservative public policies. The Heritage Foundation was established in 1973.

In 1995 the Heritage Foundation, in partnership with the Wall street Journal, launched its annual Index of Economic Freedom. This index covers 161 countries and measures economic freedoms and prospects for growth in the global economy. The index is designed for cross country research and is intended to assist international investors and aid donors in the allocation of their resources. This index is based on a detailed assessment of 10 different factors, including foreign investment codes, taxes, tariffs, banking regulations, monetary policy, and the black market. For some of these, assessments are mechanically based on objective data, while others are generated as subjective ratings based on a pre-specified checklist.

In the table below we list the variables included in each of the governance indicators. In this paper, we use Heritage data for 2001.

Heritage Foundation / Wall Street Journal: Index of Economic Freedom By Aggregate Governance Indicator

Voice and Accountability

NA

Political Stability

NA

Government Effectiveness

NA

Regulatory Quality

Regulation
 Government Intervention
 Wage/Prices
 Trade
 Foreign investment
 Banking

Rule of Law

Black market
 Property Rights

Control of Corruption

NA

Table A10

Latinobarometro (LBO)

<http://www.latinobarometro.cl/English/Entradai.htm>

Latinobarometro is a public opinion survey representing the opinions, attitudes, behaviour and values of citizens of the countries in which it is conducted. The survey began being applied regularly in 8 countries of the region in 1995, and in 17 countries beginning in 1997. Latinobarometro conducts an annual survey, using representative samples and an identical questionnaire in each country. It asks questions in the following areas: Economy and International Trade, Integration and Regional Trading Blocks, -Democracy, Politics and Institutions, Social Policies, Civic Culture, Social Capital and Social Fraud, The Environment, Current Issues.

In the table below we list the variables included in each of the governance indicators. We use data from the 2001 LBO.

Latinobarometro: by Aggregate Governance Indicator

Voice and Accountability

NA

Political Stability

NA

Government Effectiveness

NA

Regulatory Quality

NA

Rule of Law

Feeling of personal safety

Equal opportunities to access justice

Equality before the law:

Control of Corruption

Percent of public officials viewed to be corrupt.

Table A11
PriceWaterhouseCoopers (PWC)
<http://www.opacityindex.com/>

PricewaterhouseCoopers (PWC) is a U.S.-based professional services firm. It has set up an "Endowment for Transparency and Sustainability" aimed at supporting research efforts world-wide that shed light on two related topics of global importance: transparency in business and government, and sustainable economic development. Using a team of economists, survey professionals, analysts, and distinguished advisors, it has constructed an "Opacity Index" measuring the lack of transparency in 35 countries.

Opacity is defined as "the lack of clear, accurate, formal, easily discernible, and widely accepted practices" in the following areas: corruption in government bureaucracy, laws governing contracts or property rights, economic policies, accounting standards, and business regulation. The index was constructed based on responses to a survey of chief financial officers of medium- and large firms, equity analysts, bankers, and PWC employees resident in each country surveyed. The survey was conducted in 35 industrial and major developing countries during the second and third quarter of 2000.

In the table below we list the variables included in each of the governance indicators.

Opacity Factor: by Aggregate Governance Indicator

Voice and Accountability

NA

Political Stability

NA

Government Effectiveness

Economic

Regulatory Quality

Regulation

Rule of Law

NA

Control of Corruption

Corruption

Table A12

Political Economic Risk Consultancy (PERC)

<http://www.asiarisk.com/>

The Political and Economic Risk Consultancy provides strategic information and analysis for companies doing business in the countries in East and Southeast Asia. PERC was founded in 1976 and is headquartered in Hong Kong.

PERC conducts a variety of surveys of expatriate business managers in 12 countries in East Asia. Here we draw on one such survey "Corruption in Asia in 2001", published in their Asian Intelligence Issue #579 March 7, 2001. In this survey, foreign managers working within the East Asia region were questioned about their perception of corruption, the quality of the legal system, and the professionalism and reliability of the police and judiciary. We have obtained their data on corruption for 12 countries, based over 1000 responses. With respect to corruption, respondents were asked "To what extent does corruption exist in a way that detracts from the business environment for foreign companies?".

In the table below we list the variables included in each of the governance indicators.

Political Economic Risk Consultancy: By Aggregate Governance Indicator

Voice and Accountability

NA

Political Stability

NA

Government Effectiveness

NA

Regulatory Quality

NA

Rule of Law

NA

Control of Corruption

Corruption

Table A13
Political Risk Services (PRS)
<http://www.prsgroup.com>

The PRS group is an affiliate of Investment Business with Knowledge (IBC), a United States-based corporation providing up-to-date country information for international business. PRS was founded in 1980 and is headquartered in Syracuse, New York.

Since 1982, PRS produces the International Country Risk Guide (ICRG) which provides assessments of a political, economic and financial risks in a large number of developed and developing countries. These assessments are based on the analysis of a worldwide network of experts, and is subject to a peer review process at subject and regional levels to ensure the coherence and comparability across countries. The ICRG assesses three major categories of risk: political (with 12 components), financial (5 components) and economic (6 components). We use components of the Political Risk Index, which report subjective assessments of the factors influencing the business environment in a particular country.

In the table below we list the variables included in each of the governance indicators. In this paper we use data from the August 2001 edition of the International Country Risk Guide, with the exception of the "Investment Profile" question for which we use data from the March 2001 version due to an apparent change in units in April of 2001 for this variable.

Political Risk Services: by Aggregate Governance Indicator

Voice and Accountability

Military in Politics The military are not elected by anyone, so their participation in government, either direct or indirect, reduces accountability and therefore represents a risk. The threat of military intervention might lead as well to an anticipated potentially inefficient change in policy or even in government. It also works as an indication that the government is unable to function effectively and that the country has an uneasy environment.

Democratic Accountability Quantifies how responsive government is to its people, on the basis that the less response there is the more likely is that the government will fall, peacefully or violently. It includes not only if free and fair elections are in place, but also how likely is the government to remain in power or remain popular.

Political Stability

Internal Conflict Assess political violence and its influence on governance. Highest scores go to countries with no armed opposition, and where the government does not indulge in arbitrary violence, direct or indirect. Lowest ratings go to civil war torn countries. Intermediate ratings are awarded on the basis of the threats to the government and business: whether the acts of violence have a political objective or not, whether violent groups represent a sizeable minority or not, how well organized these groups are and how much popular support they receive, how frequent the act of violence are, and whether they are geographically limited or not.

Government Effectiveness

Government Stability Measures the government's ability to carry out its declared programs, and its ability to stay in office. This will depend on issues such as: the type of governance, the cohesion of the government and governing party or parties, the closeness of the next election, the government's command of the legislature, and popular approval of the government policies.

Bureaucratic Quality Measures institutional strength and quality of the civil service, assess how much strength and expertise bureaucrats have and how able they are to manage political alternations without drastic interruptions in government services, or policy changes. Good performers have somewhat autonomous bureaucracies, free from political pressures, and an established mechanism for recruitment and training.

Table A13, Cont'd

Political Risk Services: by Aggregate Governance Indicator, Cont'd

Regulatory Quality

Investment Profile. Includes the risk to operations (scored from 0 to 4, increasing in risk); taxation (scored from 0 to 3), repatriation (scored from 0 to 3); repatriation (scored from 0 to 3) and labor costs (scored from 0 to 2). They all look at the government's attitude towards investment.

Rule of Law

Law and Order. The Law sub-component is an assessment of the strength and impartiality of the legal system, while the Order sub-component is an assessment of popular observance of the law (they are assessed

Control of Corruption

Corruption. Measures corruption within the political system, which distorts the economic and financial environment, reduces the efficiency of government and business by enabling people to assume positions of power through patronage rather than ability, and introduces an inherent instability in the political system. The most common form of corruption met directly by business is financial corruption in the form of demands for bribes connected with import and export licenses, exchange controls, tax assessments, police protection or loans. This measure is also concerned with actual or potential corruption in the form of patronage, nepotism, job reservation, "favor-for-favor", secret party funding, and suspiciously close ties between politics and business. The major risk arising from corruption is that a major political scandal produces a popular backlash resulting in a fall or overthrow of the government, a major reorganizing or restructuring of the country's political institution, or

Table A14

The World Business Environment Survey (WBS)

http://www1.worldbank.org/beext/part_ii_csai/csai_maina_wbes.htm

The World Business Environment Survey (WBS) is a survey conducted by the World Bank in collaboration with several other institutions. It is designed to provide information on the business environment facing private enterprises. It was conducted during 1999 and 2000 in 81 countries. The respondents were managers of firms in at least 100 firms per country. This survey asks several questions similar to those in the 1997 World Development Report survey that we used in constructing the 1997-98 version of the indicators. We therefore treat the WBS as the continuation of this source.

The component of the WBS covering transition economies is referred to as the Business Environment and Enterprise Performance Survey (BPS), and surveyed 3000 firms in 20 transition economies. The questionnaire for this region included more detailed questions about corruption issues, including questions on "state capture" referring to the manipulation of the institutions of the state for private gain on a grand scale. Since these questions were not included elsewhere, we use the BPS state capture questions as a separate source.

In the table below we list the variables included in each of the governance indicators.

The World Business Environment Survey: by Aggregate Governance Indicator

Voice and Accountability

Business have voice to express
Business are informed

Political Stability

Political instability

Government Effectiveness

Quality of customs
Quality of public works
Quality of power company
Quality of Water
Quality of public health
Quality of public education
Quality of central government
Quality of central bank
Efficiency of govt in delivering services

Regulatory Quality

Regulations on starting new businesses
Price controls
Regulations on foreign trade
Foreign currency regulations
Goeneral uncertainty about regulations

Rule of Law

Corruption of bankers
Quality of the Police
Organized crime
Street crime
Courts-- fair & impartial
Courts-affordable
Courts-consistent
Court's enforceability
Confidence in judicial system today in insuring property rights
General constraint—functioning of the judiciary
Obstacles to competition-violation of patents
Quality of courts

Control of Corruption

Frequency of additional payments
Dishonest courts
Corruption as obstacle to business
Bribery (% of Gross revenues)
State Capture (BPS)

Table A15

Institute for Management Development (WCY)

<http://www.imd.ch>.

The Institute for Management Development is an research and educational organization based in Lausanne, Switzerland. It has published the World Competitiveness Yearbook since 1987. Until 1996, this was a joint effort with the World Economic Forum. The World Competitiveness Yearbook analyzes the competitive environment in 47 countries. It is based on both objective data and surveys of perceptions. The survey questions over 4,000 local and foreign enterprises operating in the countries under analysis. Mean scores on the survey questions are reported in the yearbook for all countries. In the table below we list the questions

In the table below we list the variables included in each of the governance indicators. We use data from the 2001 edition of the World Competitiveness Yearbook

Institute for Management Development by Aggregate Governance Indicator

Voice and Accountability

Transparency

Political Stability

Risk of political instability

Government Effectiveness

Effective Implementation of government Decisions

Bureaucracy as obstacle to business development

Political Interference

The government adapts its policies to changes in the economic environment

Distribution of infrastructure goods and services is generally efficient.

Regulatory Quality

Legal Regulation of Financial Institutions

Protectionism as obstacle to imports

Control on foreign ownership

Obstacles to foreign bidders on public contracts

Political system as obstacle to development

Real personal taxes as burden to work initiative

Real corporate taxes as burden to entrepreneurship

Legal framework as obstacle to competitiveness

Customs as burden for international trade

Price controls

Competition laws as obstacles to competition

Rule of Law

Parallel economy as obstacle to business development

Extent of tax evasion

Confidence in fair administration of justice

Confidence that person and property are protected

Control of Corruption

Improper practices in the public sphere