The Power of Ranking: The Ease of Doing Business Indicator and Global Regulatory Behavior

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The Power of Ranking: The Ease of Doing Business Indicator and Global Regulatory Behavior

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Abstract: The proliferation of Global Performance Indicators (GPIs), especially those that rate and rank states against one another, shapes decisions of states, investors, bureaucrats, and voters. This power has not been lost on the World Bank, which has marshaled the Ease of Doing Business (EDB) index to amass surprising influence over global regulatory policies – a domain over which it has no explicit mandate and for which there is ideological contestation. This paper demonstrates how the World Bank’s EDB ranking system affects policy through bureaucratic, transnational, and domestic-political channels. We use observational and experimental data to show that states respond to being publicly ranked and make reforms strategically to improve their ranking. A survey experiment of professional investors demonstrates that the EDB ranking shapes investor perceptions of investment opportunities. Qualitative evidence from India’s interagency EDB effort show how these mechanisms shape domestic politics and policy in the world’s second-largest largest emerging economy.

*Acknowledgement: we would like to thank Andrew Heiss for outstanding assistance with the empirical analysis and graphics. In addition, we thank all the participants at the May 2016 workshop on Assessment Power in World Politics at Harvard University; participants in colloquia at the Center for Advanced Study, Princeton; International Relations Department, London School of Economics; Legal Studies and Business Ethics Department of the Wharton School of Business, and Department of Politics and IR, Oxford University. For detailed feedback, special thanks to Indermit Gill, Philip Keefer, Christopher Lucas, Eddy Malesky, Richard Messick, Rita Ramalho, Dani Rodrik, Sylvia Solf, Anton Strezhnev, and Jonas Tallberg.
The Power of Ranking: 
The Ease of Doing Business Indicator and Global Regulatory Behavior

The main advantage of showing a single rank: it is easily understood by politicians, journalists, and development experts and therefore created pressure to reform. As in sports, once you start keeping score everyone wants to win.

– World Bank Staff Report, 2005

Stripping the ordinal rankings and “reforming” the report’s methodology would have the effect of completely destroying the report’s credibility and usefulness as a policy tool.

– Steve Hanke, Director of the CATO Institute’s Troubled Currencies Project, in response to a Chinese-led effort to remove the rankings

The world is increasingly governed not by force, but by information. Information moves markets, affects reputations, and impinges on national security. Global Performance Indicators (GPIs), especially regimes that rate and rank states against one another, purposively package information to influence the priorities of states, the perceptions of publics, and the decisions of economic actors. As the introduction to this symposium suggests, GPIs constitute an increasingly important form of social pressure around the world; that is, they are promulgated by their creators to change the information environment of communities of importance to the target in order to change its behavior. All social pressure is exerted through information: sometimes

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relying on evidence and rational argument, often using emotive persuasion, and occasionally by making implicit or explicit demands for conformity. Its purpose is to affect the views of an audience of importance to the target, anticipating that the target will care about and respond to those views.³

That is precisely what GPIs aim to do. Wielding comparative information using simple rankings is designed to alter shared information, affect third party beliefs and opinions, and ultimately to convince targets that their reputation or relative status is at stake, potentially with material and/or social consequences. Social pressure of this kind is clearly evident in the area of business (de)regulation. Since the mid-2000s the World Bank has used rankings as a device to influence the regulatory policies of countries worldwide. By creating the Doing Business Report and the Ease of Doing Business (EDB) Index, the Bank has decisively shaped states’ regulatory behavior, especially in emerging markets and developing countries. Even though the EDB is formally a non-coercive reporting exercise, and may not always accurately reflect appropriate regulation, its existence has influenced governments around the world to change their economic and regulatory policies to meet the Bank’s expectations. By benchmarking and especially by ranking, the Bank intentionally exerts competitive social pressure on states to deregulate.⁴ If the Bank simply wanted to exert traditional economic pressure, they have long had the tools at hand, and scarcely needed to construct and propagate such an elaborate way to change the broader

³ This definition is intentionally general, and it consistent with that offered by Nugent, Pam M.S., "SOCIAL PRESSURE," in PsychologyDictionary.org, April 13, 2013, https://psychologydictionary.org/social-pressure/ (last accessed November 10, 2018). Unlike much of the socialization and social pressure literature in international relations (relating to human rights for example), this definition does not take a position on whether social pressure is used for objectively good purposes. Our definition of social pressure can also be used as a synonym for peer pressure.
informational environment. Instead, the Bank has chosen to innovate by manipulating information that influences official reputations and states’ status.

This article explores the Bank’s intentions in establishing its deregulatory ranking system. We build a prima facie case for the EDB’s social influence by demonstrating its salience in the media and on the minds of high government officials. Plausible observational evidence demonstrates an average global correlation between publicizing the rankings, bureaucratic adaptations responding to the rankings, and an acceleration in actual policy reforms. A survey experiment and case study unpack causal mechanisms. By manipulating the information available to an elite panel of investors, we demonstrate that EDB rankings affect assessments of investment opportunities. A case study of India brings the strands of the argument together and provides evidence that politicians see the ranking as affecting domestic politics, altering investor sentiment, and engaging bureaucratic reputations. The case demonstrates holistically that altering information allows the World Bank to intensify its influence on states, whose national politicians and bureaucrats believe their reputations and ability to attract business are at stake. Consequently, they strive to move up the rankings. Overall, a broad range of evidence, each source and method tailored to a specific step in the argument, shows that the Bank has intentionally and successfully packaged information to maximize its influence on states to reform business regulations in emerging markets around the world.

Comparative information and social pressure: a theory of the influence of the EDB

The World Bank’s use of the EDB index is a prime example of the mechanisms discussed in the symposium introduction. For decades, the Bank has used the traditional tools of loans and
technical assistance to influence development strategies. For a number of reasons – including the possibility of growing skepticism of the legitimate role of international organizations in traditional areas of state sovereignty\(^5\) – traditional tools of economic leverage were seen as undesirable and/or ineffective ways to encourage business deregulation. Instead, the Bank intentionally chose a communication device that leverages the views of other actors to encourage change. Rankings served that purpose. They simplify a complex regulatory reality, compare all states along a set of actionable indicators, and publicize the resulting rankings to media hungry for simple headlines. Investors looking for rules of thumb to guide their decisions pay attention. Constituents use them to pass simple judgments on policies and politicians. Knowing this, the Bank sees an opening to leverage information through these audiences to achieve results. Doing so is a Bank initiated application of social pressure. In anticipation or response, governments alter priorities, make bureaucratic changes, and intensify their engagement with the Bank to improve their rankings. Figure 1 illustrates schematically how this process as a whole works.

\(^5\) Zürn 2018.
Figure 1: Theory of the social influence of the Ease of Doing Business Ranking. Note that by framing good business practices as time and cost reduction, and changing the information environment, in ways that attract attention of investors and domestic groups, the Bank applies social pressure on its members to reform. Adapted from Kelley and Simmons, Symposium Introduction (this volume).

Construction of comparative judgments is crucial in this process. By engaging the right-hand segments of the loop in Figure 1, rankings reverberate and magnify whatever direct influence the Bank may traditionally have had on states. Since the Bank publishes overall and sub-index rankings, it could not be easier to sort states by their total number of reforms or a specific reform category. The format is important because broad social engagement is much less like to be activated by raw data alone than by comparisons.

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7 See http://www.doingbusiness.org/reforms/reforms-count.
8 Hansen and Mühlen-Schulte 2012; Robson 1992.
This is precisely the mechanism theorized in the symposium introduction: When the Bank deploys “business climate” information in a simple comparative format such as the EDB Index, they effectively change the information environment for economic and political groups important to the target state. Not only does the bank staff and the ministry of development (for example) know their rating; they both know that investors know, citizens have gotten wind, and other states have become aware as well. This is the essence of social pressure: it engages the reputations and status concerns of relevant bureaucrats and politicians, in some cases fueled by national pride of domestic publics more generally.9 When King Abdullah of Saudi Arabia declared in 2006 that, “I want Saudi Arabia to be among the top 10 countries in Doing Business in 2010. No Middle Eastern country should have a better investment climate by 2007,”10 he was displaying a status motivation that has no other metric than his kingdom’s relative performance on the Bank’s narrowly defined, but highly focal scale.

Social pressure is not a bilateral relationship between the World Bank and a state; our theory stresses that the former alters the informational environment which in turn stimulates (often implicit) group pressures on states to reform. Were it not for the anticipated public response, the Bank would not be able to exert social pressure of the kind described here (though any economic leverage it may have would remain intact). Governments are likely to care about the beliefs of two groups in particular: domestic constituents (voters, business groups)11 and international investors. For domestic businesses, the rankings uniquely reveal how much more heavy-handed their government is than its peers. World Bank rankings recalibrate expectations

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9 Kelley 2017; Kelley and Simmons 2015.
and legitimate demands for a reduction in red tape associated with conducting business. 

International investors may be influenced by a state’s EDB rankings as well.\textsuperscript{12} Even more importantly, state regulators believe that the rankings influence private investment decisions, and will try proactively to improve their rankings to attract investment.\textsuperscript{13} Market actors\textsuperscript{14} use the Bank’s rankings as a credible short-hand for a competently regulated economy; perhaps for this reason, EDB rankings do correlate with investment flows, consistent with a claim that good ratings attract business.\textsuperscript{15} Unfortunately, existing studies do not distinguish between the underlying “business environment” the EDB is meant to reflect and the signal sent by the ratings per se. Methods isolating the influence on investor opinions and beliefs of \textit{information packaged as ratings} are essential to our argument.

But why should bureaucrats – some of whom may collect rents from existing inefficient red tape – care about such information? EDB rankings also reflect on the personal competence of an individual government minister or that of a department or bureaucracy.\textsuperscript{16} Some EDB sub-indicators are specific enough to implicate the professionalism of business regulators, encouraging policy reform before the next “grading period” in order to avoid opprobrium.

\textsuperscript{12} This claim is tested in the investor survey experiment below.
\textsuperscript{13} Jayasuriya 2011. Media analysis presented below speaks directly to this claim. Some scholars argue that states use the EDB rankings specifically as a form of “competitive signaling,” to investors and other stakeholders. Appel and Orenstein 2018.
\textsuperscript{15} Corcoran and Gillanders 2015; Klapper, Amit, and Guillén 2010.
\textsuperscript{16} Kelley 2017.
Ongoing EDB monitoring and publicity prompts bureaucracies to develop institutionalized routines and capacities, especially in middle tier emerging markets where incentives to develop a reputation for a business-friendly environment are strongest.\textsuperscript{17}

Finally, governments can use the EDB rankings strategically to gain support for their policies. GPIs can help leaders overcome rent-seeking politicians or competition-fearing monopolies by empowering allies, shaming bureaucrats, mobilizing publics, and promising to attract investment.\textsuperscript{18} External validation (or criticism) from a credible institution can be part of a strategy to bolster a broad domestic coalition for reform.\textsuperscript{19} External pressure in the form of rankings is sometimes a politically useful tool to accomplish leaders’ objectives in the face of domestic resistance. This possibility is evident in India, where Modi has emulated the World Bank’s tactics \textit{intranationally} to intensify social pressure on Indian bureaucrats around the country to improve their performance.

**EDB Background**

\textit{Economic Theories and Bank Motives}

Over the course of the 1990s, a remarkable development was afoot in one of the most important public investment bureaucracies in the world. The World Bank, whose legal mandate was to promote investment by guaranteeing loans and supplementing private finance, began to turn its attention in earnest to what it saw as one underlying reason for underinvestment in the

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\textsuperscript{17} Evidence analyzed below on reform committees, bureaucratic statements to the press, and the robust interagency process and sub-national competition underway in India’s EDB reform effort all suggest that the perception of bureaucratic competency is often at stake.

\textsuperscript{18} DeMarzo 1992 ; Kahler 1994.

\textsuperscript{19} Kelley 2004.
first place: overly burdensome business regulations. In the spirit of the times, academic and Bank researchers began to collect information that would speak to the empirical links between regulatory burdens, investment, and economic outcomes such as growth and development. They developed the concepts and methods underlying the indices on which the rankings were to eventually be based in a widely-cited set of academic and policy papers that reflected the deregulatory and pro-investor approaches that were reaching their height at the time.

The EDB index was “built on the premise that firms are more likely to flourish if they have to abide by fewer, cheaper, and simpler regulations.” It seeks to assess “the burden of regulation…as seen from the private firm’s point of view,” not the net social benefits of regulation, and not net poverty reduction. A ranking that rewards reduced business costs was justified theoretically on the grounds that overregulation stifles business activity, stunting growth and development. In August 2002, the Bank noted its assessments were meant to set standards and to be actionable: “The [EDB] database differs from existing cross-country reports […] which…do not identify the nature of regulatory reforms required to improve the investment

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20 The Bank’s legal mandate is discussed in the Articles of Agreement, Article I. http://web.worldbank.org/WSBSITE/EXTERNAL/EXTABOUTUS/0,,contentMDK:20049563~pagePK:51123644~piPK:329829~theSitePK:29708~isCURL:Y,00.html
22 See the papers posted on the Doing Business website’s methodology page: http://www.doingbusiness.org/methodology. Last accessed November 10, 2018. Most prominent, is Djankov et al. 2002., which describes barriers to setting up businesses around the world and has been cited more than 3,000 times.
23 Both preceding quotes are in Independent Evaluation Group 2008.
climate. Doing Business aims to provide a new set of objective, quantifiable measures of business regulations and their enforcement.”

The decision to rank was a deliberate part of the strategy to impact policy. EDB’s “lively communication style” was designed specifically to establish benchmarks and to set states in competition with one another in support of the World Bank’s private-led development agenda.

To promote its “flagship knowledge product,” the Bank staff carry out a massive media campaign every year when the ratings are released. A separate Indicator Based Reform team works with countries to target policies effectively.

*Market Share*

The EDB product line has a robust online presence, including a Wikipedia page, and presence on Chartsbin, Facebook, LinkedIn, several Youtube videos, and Slideshare. Consequently the EDB Index enjoy tremendous “market share” among the growing list of GPIs that deal with national business environments. To illustrate, we selected seven of the EDB’s closest cognate assessments, and searched a database of over 50 thousand online media sources (news organizations, blogs, and other media). The EDB brand dominates the market for easy-to-access comparative rankings of country performance, as Table 1 clearly shows. In fact, the EDB had more mentions in the media between 2010 and 2017 than the other seven cognate

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indicators combined. In 2017 the Doing Business website had nearly 5 million annual visitors, 166 times as many as in 2003 (Figure 2).

<table>
<thead>
<tr>
<th>Cognate Economic Indicators</th>
<th>Hits</th>
<th>Market Share</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ease of Doing Business Index</td>
<td>28798</td>
<td>65.26%</td>
</tr>
<tr>
<td>Global Competitiveness Index</td>
<td>7263</td>
<td>16.46%</td>
</tr>
<tr>
<td>Heritage Index of Economic Freedom</td>
<td>3563</td>
<td>8.07%</td>
</tr>
<tr>
<td>Global Entrepreneurship Monitor</td>
<td>1901</td>
<td>4.31%</td>
</tr>
<tr>
<td>Fraser Economic Freedom Index</td>
<td>1234</td>
<td>2.80%</td>
</tr>
<tr>
<td>World Competitiveness Rankings</td>
<td>973</td>
<td>2.20%</td>
</tr>
<tr>
<td>The Enabling Trade Index</td>
<td>272</td>
<td>0.62%</td>
</tr>
<tr>
<td>Forbes Best Countries for Business</td>
<td>126</td>
<td>0.29%</td>
</tr>
</tbody>
</table>

Table 1: Market Share of the Ease of Doing Business Index. Showing the number and share of hits. Results generated from Harvard Berkman Center, "Media Cloud Database," 2017.

Figure 2: Doing Business Website Visits, Annually (2003-2016). Source: World Bank, Unpublished Data Provided to Authors.
Contestation

Despite its dominance, the EDB indicator inhabits a contested space and faces criticisms about its accuracy and validity. One critical study compared EDB’s *de jure* measures of regulations with *de facto* measures from World Bank firm surveys and found significant differences between the two.\(^{28}\) Some firms in countries with low ranks in categories such as legal requirements for construction permits actually attained permits faster than countries with higher ranks, a pattern that also holds across many other EDB sub-categories. The rankings based on formal laws were, it was found, largely unrelated to actual business practice. The EDB Index has even been assailed for frequent changes in methodology that “had the appearance of being politically motivated.”\(^{29}\) Whether this is true or not, it illustrates disagreement over what the rankings actually capture.

The ranking criteria face some sharp ideological criticism for their deregulatory biases. The EDB has been criticized by unions and the International Labor Organization (ILO) for neglecting the consequences of business deregulation for workers, and the Bank eventually removed labor-related components from the Index.\(^{30}\) EDB has likewise been criticized on environmental grounds for downplaying the importance of environmental assessments in favor

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of a streamlined permits process that could increase the risk of natural disasters. Many have questioned whether restrictions on female participation in business should be included in the ranking. When the Bank’s data on Women and the Law were included in the rankings, states like Saudi Arabia tumbled downward. These examples suggest that states have reasons to wonder whether competing to ascend the rankings could create new problems or exacerbate existing ones. Unsurprisingly, competitors have developed and deployed alternative measures for states’ business environments (Table 1). The EDB faces competition from GPIs that prioritize low taxes and limited government (Heritage and Frasier), that include the informal sector (Global Entrepreneurship Monitor), and that include labor (Global Competitiveness Index).

Simplicity, Salience and Competition: Prima Facie Evidence of the Theory in Practice

And yet, despite questions about its singular deregulatory emphasis and validity, the EDB rankings have become quite salient. Within the first year of publicizing the rankings, leaders from many countries, including Algeria, Burkina Faso, Malawi, Mali, and São Tomé and Príncipe had reportedly requested not general regulatory advice, but specific advice on how to improve their standings. These requests provoked the first epigraph above, marveling at the competitive state response, in 2005. The Bank itself has succinctly summarized our theory of

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31 See for example in the case of India: http://www.dnaindia.com/analysis/column-is-ease-of-doing-business-undermining-green-norms-2559752
social pressure: decision-makers view the EDB index as a system that compares performance, engages reputations, and incites competition. The Bank explicitly and intentionally designed an assessment system calculated to draw attention to a few very simple criteria that are \emph{plausibly but not unequivocally} associated with a “better” business environment. The index became focal in part because it was one of the first to successfully harness broader intellectual and ideological trends, to link development with a country’s business-friendly environment, and thus to ride the crest of the deregulatory wave of the Washington Consensus touted by prominent economists. It has also been advocated by arguably the most central development institution in the world, leveraging the World Bank’s credibility.

The EDB also benefits from its quantitative clarity. The ranking simply rewards any policy that reduces the \emph{time} or the \emph{cost} of doing business.\footnote{E.g., days to enforce a contract, and cost of contract enforcement as a share of the total claim. There are just a few exceptions, such as the “quality of judicial processes index” which is a sub-indicator under “enforcing contracts.” See \url{http://www.doingbusiness.org/data/exploretopics/enforcing-contracts#close}. Last accessed November 10, 2018.} The Bank chose not to cloud this focal concept with alternative or countervailing values such as fair business, socially responsible business, labor protection, or environmental considerations.\footnote{The Bank does maintain a database on labor protections, but does not rank states in this area and does not combine labor and business regulations for a composite score.} The Bank further reinforces EDB’s legitimacy by referring to the rankings themselves as “data” on par with the rest of the World Development Indicators.\footnote{See \url{http://data.worldbank.org/indicator/IC.BUS.EASE.XQ}. Last accessed November 10, 2018.} As a result, the EDB has survived political pushback from powerful states such as China and Russia, and has become focal enough to influence significantly the behavior of states.

Evidence of our theory in practice can be found in policymakers’ own words. Over the past decade, policy makers around the world have spoken and acted as though the EDB matters
greatly. Countries openly publicize their plans to undertake reforms. Georgia – whom some have criticized for gaming the system – announced concerted efforts to rise from 100th to the top 20 in two years.36 National officials in Yemen,37 Portugal,38 Mauritius,39 El Salvador,40 and India41 have also highlighted EDB as motivating reforms.

To test the general plausibility of this claim, we examined a near-comprehensive set of press statements and stories for 2016 in English from the Lexis Nexis database. While hundreds of stories mention the EDB Index, our specific interest was in the 51 English language stories covering 26 countries that directly cite high-ranking government officials. Illustrating the seriousness with which countries take the EDB Index, 14 percent of the officials cited are heads of state, and another 47 percent are either ministers or deputy ministers, making up over 60% of the stories. The remaining stories quoted spokespersons for these offices.

These statements demonstrate the theorized channels of influence. When countries improve, officials highlight this accomplishment: 18 percent brag about progress on the index. Comparisons are rife: 14 percent of officials compare their countries to others. For example, the undersecretary to Cyprus’s president, who heads the president’s administrative reform unit, noted that Cyprus ranked 25th of 28 EU states and that “our performance there is not good.” Fifteen percent of the stories mention specific bureaucracies tasked with improving the EDB score, potentially amplifying reputational concerns. Most of the stories identify specific policy measures taken and link those to the EDB Index. Indonesia’s Agrarian and Spatial Planning

36 Schueth 2011.
41 Discussed in detail below, relying only on non-Bank sources.
Minister noted specifically that a “ministerial regulation was made to respond to a survey by the World Bank on the ease of doing business.”

Many officials stressed the desire to improve their rankings. For half the countries, official statements – usually by a head of state – publicly commit to a specific target ranking. For example, Indonesian President Jokowi announced “a policy intended to improve Indonesia’s position in the World Bank’s Ease of Doing Business rankings from 109 to 40.” In Bangladesh, a high-level official noted that it was, “the prime minister’s demand to see Bangladesh among the countries with a double-digit position (10-99) in the ‘ease of doing business index.’ It’s an aggressive target, but achievable.” In Kazakhstan, Erbolat Dossaev, Minister of National Economy committed to reach the top 30, “an objective set by the President of Kazakhstan, Nursultan Nazarbayev.” None less than President Vladimir Putin of Russia has gotten in the game. A story reports that “Russia's high positions in the Doing Business ranking were one of the objectives provided in the President's May decrees of 2012. Russia is to go up from the 120th position in 2011 to the 50th in 2015 and to the 20th in 2018.”

This evidence shows that high-level government officials make explicit comparative judgments and set goals based on the EDB Index. Some also believe their efforts will be rewarded in a very tangible way – by attracting investment. Serbia’s Prime Minister, Aleksandar Vucic, acknowledged this explicitly, stating that, “Serbia wants to enter the top 30 countries on the World Bank’s list. This is very important for the citizens of Serbia, because the better positioned we are, the more we will be able to attract foreign and domestic investors.”

42 A complete file of all the quotes and sources is available online [link removed during review to preserve anonymity].
ample prima facie evidence that the EDB Index has motivated a wide range of states, especially those with emerging markets, to take policy reforms tallied by the EDB Index.

**Observational Evidence: Bureaucratic Restructuring and Policy Reforms**

Words are one thing; actions are another. This section documents bureaucratic restructuring designed to implement specific policies to ascend the EDB rankings. The EDB system has a clear bureaucratic imprint in many states, and new dedicated structures help states ascend the rankings more efficiently. Evidence also suggests the Bank’s strategy of public competition has paid reform dividends: states have responded by reducing costs and time associated with starting a business once the rankings were made public.

*Bureaucratic efforts*

Has the EDB Index actually spurred policy reforms? Since 2006 when the bank started tracking, countries have undertaken 3057 sets of reforms related to the EDB. Many of these reforms appear to be concerted efforts to improve the rankings, as countries initiate collaborations with Bank staff *in response to* the rankings. For example, in 2006, Azerbaijan’s president declared the country’s ranking “unacceptable,” and sent a working group to consult with the Bank to design reforms that moved Azerbaijan up in the rankings. In February 2008 the Albanian government asked the World Bank’s Doing Business Reform Unit to review

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43 See The World Bank, [http://www.doingbusiness.org/reforms/reforms-count](http://www.doingbusiness.org/reforms/reforms-count). In reality, even more reforms occurred, because if a country undertook multiple reforms within a given indicator in a given year, this is counted as just one reform.

44 World Bank 2008.
proposed legislation to protect investors and then, one month later, unanimously enacted it.45 Such consultations are frequent. Between November 2013 and October 2014 alone, the EDB team received over 160 queries from countries, which suggests that bureaucracies are now configured to respond to the Bank’s policy advice.46 More than 50 states have formed or designated “reform committees” that, according to the Bank, “use the Doing Business indicators as one input to inform their programs for improving the business environment.”47

<table>
<thead>
<tr>
<th>Region</th>
<th>Countries</th>
</tr>
</thead>
<tbody>
<tr>
<td>East and South Asia</td>
<td>Indonesia, the Republic of Korea, Malaysia, the Philippines and Sri Lanka.</td>
</tr>
<tr>
<td>Middle East and North Africa</td>
<td>Algeria, Kuwait, Morocco, Saudi Arabia and the United Arab Emirates</td>
</tr>
<tr>
<td>Europe and Central Asia</td>
<td>Azerbaijan, Croatia, the Czech Republic, Georgia, Kazakhstan, Kosovo, the Kyrgyz Republic, the former Yugoslav Republic of Macedonia, Moldova, Montenegro, Poland, the Russian Federation, Tajikistan, Ukraine, the United Kingdom and Uzbekistan</td>
</tr>
<tr>
<td>Sub-Saharan Africa</td>
<td>Botswana, Burundi, the Central African Republic, the Comoros, the Democratic Republic of Congo, the Republic of Congo, Côte d’Ivoire, Guinea, Kenya, Liberia, Malawi, Mali, Nigeria, Rwanda, Sierra Leone, Togo and Zambia</td>
</tr>
<tr>
<td>Latin America</td>
<td>Chile, Colombia, Costa Rica, the Dominican Republic, Guatemala, Mexico, Panama and Peru</td>
</tr>
</tbody>
</table>

Table 2: Countries with Reform Committees Directly Using the EDB Data. Note that no information is available for precise date when committees were formed. These are all reform committees in existence as of 2015. Source: World Bank.

Table 2 lists the reform committees in place as of 2015. Although countries with reform committees resemble those without in terms of relevant factors such as GDP growth, World

45 “On Entrepreneurs and Companies” (Celebrating Reforms 2009, 55-56).”
46 World Bank 2014.
47 The Appendix lists the countries by region.
Bank loans, regime type, GDP per capita or even initial EDB ranking, they do differ with respect to their EDB performance over time. Between 2007 and 2014, they undertook many more reforms (a total of 2.7 reforms per year compared to 1.2 reforms for those without committees, a statistically significant difference) and whereas the countries without committees dropped 13 spaces in the rankings during this period, the ones with committees rose by 11.

Interestingly, the rankings boost is not merely proportional to the number of reforms for countries with such committees; they systematically get a bigger “ranking bang” for their “reform buck.” We coded the annual number of reforms by each sub-indicator of the Doing Business Index, using a more fined-grained count than the Bank’s own data and coding for whether the reforms were positive or negative, based on Bank descriptions. A new variable, Total Reforms accounts for both positive and negative reforms. This variable has a mean of 1.6 (and a standard deviation of 2.4), suggesting that on average countries undertook a net of 1.6 reforms a year. The range is from -6 to 17 (some reforms are negative). It turns out that per reform, the countries with designated committees moved up more in the rankings (about 1.03 places) than those without such committees (up about .55 places). In other words, countries with committees got nearly double the rankings reward for each reform effort. In Table 3, this Total Reforms variable is used to predict overall EDB ranking in the subsequent year, using a normal linear regression model and controlling for past ranking as well as year-fixed effects to account

48 See Appendix Table A1.
49 See Table A3 in the Appendix. Using normalized rankings instead results in a drop of 5 and increase of 10 instead, but the general picture is the same.
50 The indicators and methodology is explained at length online. See http://www.doingbusiness.org/Methodology/Starting-a-Business . Last accessed November 10, 2018.
51 Discussion of this coding is in the Appendix.
for any minor methodological changes over time. Models 1 and 2 demonstrate the separate effects of Reform Committee and Total Reforms, Models 3 and 4 illustrate the Total Reforms for countries with and without reform committees as separate subgroups, and Model 5 uses an interaction term between Reform Committee and Total Reforms to demonstrate that the relationship between Total Reforms and the EDB ranking differs by whether countries have reform committees. The analysis suggests that focused bureaucratic organization produces more strategic responses to the rankings, and not just to global market pressures unrelated to the EDB. As leaders’ own commentary in the media suggests, many states undertake specific reforms strategically to improve their rankings.52

<table>
<thead>
<tr>
<th>Countries included in model</th>
<th>Model 1 All countries</th>
<th>Model 2 All countries</th>
<th>Model 3 No Bureaus</th>
<th>Model 4 Bureaus only</th>
<th>Model 5 All countries</th>
</tr>
</thead>
<tbody>
<tr>
<td>Published Rank, lag</td>
<td>0.991***</td>
<td>0.988***</td>
<td>0.993***</td>
<td>0.979***</td>
<td>0.989***</td>
</tr>
<tr>
<td></td>
<td>-0.00393</td>
<td>-0.00376</td>
<td>-0.00917</td>
<td>-0.00389</td>
<td></td>
</tr>
<tr>
<td>Reform Committee</td>
<td>-2.924***</td>
<td>-0.00377</td>
<td>-0.988</td>
<td>-0.808</td>
<td></td>
</tr>
<tr>
<td></td>
<td>-0.694</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Reforms, lag</td>
<td>-0.816***</td>
<td>-0.552***</td>
<td>-1.029***</td>
<td>0.549***</td>
<td></td>
</tr>
<tr>
<td></td>
<td>-0.0933</td>
<td>-0.119</td>
<td>-0.139</td>
<td>-0.121</td>
<td></td>
</tr>
<tr>
<td>Total Reforms *</td>
<td></td>
<td></td>
<td></td>
<td>-0.406**</td>
<td></td>
</tr>
<tr>
<td>Reform Bureau, lag</td>
<td></td>
<td></td>
<td></td>
<td>-0.172</td>
<td></td>
</tr>
</tbody>
</table>

52 While it is hard to know whether such reforms are more or less appropriate than those made without the Bank’s close guidance and without rankings in mind, an analogy to the phenomenon of teaching (and learning) to the test is potentially helpful. The literature is voluminous, especially in the wake of No Child Left Behind policies of the 2000s. See for example Jensen et al. 2014; Menken 2006. Much of this literature suggests that over-reliance on standardized tests shifts resources and is associated with more superficial learning. While we are agnostic about the quality of EDB-inspired reforms, we use this analogy to understand the motivation for taking them in the first place. While we have documented the controversy over the validity of the EDB criteria, assessment of reform quality is beyond the scope of this article.
Table 3: The Efficiency of Bureaucratic Reforms for Ascending the Rankings. Dependent variable: EDB Ranking. Note that the coefficients that improve rankings are negative as countries move towards being number 1.

Empirical Context: The Impact of Publicity

The theory advanced in this symposium claims that ranking publicity per se should matter for reform. This is challenging to assess since the World Bank’s monitoring, reporting and public ranking has been introduced gradually. In the late 1990s several indices around competitiveness were emerging; the Bank was not the first to capture the field. The idea for the EDB report arose with a paper by Djankov et al. on “The Regulation of Entry,” which has been cited over 3,000 times and was well known before it appeared in print in 2002. The paper included a ranking of regulation on entry procedures derived from 1999 data on 85 countries representing a wide array of regimes types and other characteristics. In 2002, the Bank issued the first data on its website (roughly covering 2001), thus commencing the formal period of monitoring and rating. The early data covered 110 countries, but selection into that sample is not significantly correlated with the outcome variable measuring the regulations. In 2004, a report

---

53 http://www.doingbusiness.org/methodology
54 GPD per capita income, GPD growth, democracy, population size, and international or civil conflict rarely correlate significantly with reform and tend not to predict selection into the sample in 2001. Not even the total volume of loans to a country predicts either selection into the original group of rated states or improved business reform measures. See Table A1 in the appendix.
covering 145 countries was issued for the first time, attracting more attention to the ratings and monitoring, but still without rankings. In 2005, the report included top twenty and also worst performer lists, essentially constituting a proto-ranking. By 2006 (covering 2005 data), a true ranking of all countries debuted. The introduction of the ranking was by no means a clean break, which makes it difficult to detect a precise ranking publicity effect.

Despite the gradual introduction of ratings and rankings, we hypothesize that the full publication of rankings in 2006 should be associated with greater efforts to reform and therefore greater reductions in the relevant measures after 2006. The dependent variables are four indicators that were first published for “Starting a Business,” the most often referenced component of the index. Larger numbers represent higher costs or longer waits, and so are considered worse from a business perspective. Data were recovered from the Internet archive “The Wayback Machine” for years prior to publication. Table 4 displays the indicators and the years the data collection began.\(^55\)

<table>
<thead>
<tr>
<th>Variable Name</th>
<th>Definition</th>
<th>First Year Published Online</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Starting a Business indicators (Entry Regulations)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Capital</td>
<td>Paid-in minimum capital (% of income per capita) required to start a business</td>
<td>2003</td>
</tr>
<tr>
<td>Procedures</td>
<td>Number of procedures required for an entrepreneur to legally operate a business.</td>
<td>2002</td>
</tr>
<tr>
<td>Days</td>
<td>Number of days required to start a business.</td>
<td>2002</td>
</tr>
<tr>
<td>Cost</td>
<td>Cost (% of income per capita) of starting a business</td>
<td>2002</td>
</tr>
</tbody>
</table>

\(^{55}\) To provide a comparable time series for research, the Bank back-calculates to adjust for changes in methodology, but these corrections only have been made since 2003 data (in the 2004 report). Therefore, if the data in 2001 and 2002 were then the biggest methodology-induced drop will occur between 2002-2003, which is a year before rankings existed. This would bias the findings against our hypothesis, because it would make a pre-ranking year appear to have large improvements.
Average values of these indicators show steady declines, meaning it is easier and cheaper to do business in these countries on average over time. Furthermore, many more countries have been progressing each year than retrogressing. In 2002, for example, only 13 percent of the countries required fewer than 6 procedures to start a business. By 2014, half of the countries had come below six procedures. By 2014, in nearly a quarter of countries one could start a business in about a week, something that had been possible in less than 5 percent of countries in 2002. Figures 3 and 4 show the number of countries over time improving and backsliding on these measures, keeping in mind that countries face a floor effect which at some point makes further reductions difficult or impossible.\footnote{It is not suitable to explore similar trends for the other two variables as they are based on GDP and therefore display minor absolute changes even when the country took no action, simply due to the change in GDP that inevitably occur in any given year.}
Figure 3: Days to start a business. The number of states improving (blue) versus those getting worse (red). Source: authors’ counting and coding of EDB reforms (detailed in data appendix).
To examine the association between ratings and the introduction of rankings we use a time series simple regression model that includes controls for the most salient economic indicators: Polity (as a measure of regime type), GDP, population, GDP growth, loans from the World Bank, as well as a lag of the outcome variable for each of the four sets of models associated with the four sub-indicators in Table 4. The economic and outcome variables are all logged.

The underlying hypothesis is whether 2006 represents a breakpoint in a trend. This is a hard test because of the gradual introduction in the monitoring, rating and ranking scheme and the expectation that policy reactions take some time. The key explanatory variable is Ranked, which equals one for all countries in year 2006 and afterwards. Two different specifications were
run for each outcome. The first includes Ranked, the control variables, the lagged outcome and country fixed effects. Ranked is expected to be negative and significant in this model. The next model adds a Year trend variable. A negative and significant coefficient on Ranked would indicate greater improvements after the introduction of the rankings.

Table 5 displays the results. In model 6-9, which only have country fixed effects, Ranked is associated with reductions in time, costs and procedures associated with starting a business, indicating greater improvements after 2006 than before. That 2006 presents a clear break in a trend, is evidenced for two of the four variables, Procedures and Cost, in Models 10-13, the set of second models that add a year trend. In all cases the coefficients are small, suggesting the effects are modest. It is important to interpret these findings in the context of the findings of the analysis as a whole. Given the unfavorable conditions for observing any clear break due to the gradual introduction of the monitoring and rating scheme prior to the ranking, these results, combined with the evidence that specific countries are highly motivated by the rankings, plausibly support the argument that publicizing the rankings has contributed to reforms, and that the efforts to improve have been more intense after the introduction of the rankings.
<table>
<thead>
<tr>
<th>Outcomes:</th>
<th>Model 6</th>
<th>Model 7</th>
<th>Model 8</th>
<th>Model 9</th>
<th>Model 10</th>
<th>Model 11</th>
<th>Model 12</th>
<th>Model 13</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Capital</td>
<td>Cost</td>
<td>Procedures</td>
<td>Days</td>
<td>Capital</td>
<td>Cost</td>
<td>Procedures</td>
<td>Days</td>
</tr>
<tr>
<td>Capital</td>
<td>0.749***</td>
<td>-0.0251</td>
<td></td>
<td></td>
<td>0.735***</td>
<td>-0.0257</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cost</td>
<td>0.710***</td>
<td>-0.0347</td>
<td>0.821***</td>
<td>-0.0189</td>
<td></td>
<td>0.686***</td>
<td>-0.0389</td>
<td></td>
</tr>
<tr>
<td>Procedures</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0.755***</td>
<td>-0.0211</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Days</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0.805***</td>
<td>-0.0199</td>
<td></td>
</tr>
<tr>
<td>year</td>
<td>-0.0420***</td>
<td>-0.0218***</td>
<td>-0.00578***</td>
<td>-0.0196***</td>
<td>-0.0231</td>
<td>-0.00825</td>
<td>-0.00233</td>
<td>-0.00597</td>
</tr>
<tr>
<td>Ranked</td>
<td>-0.102*</td>
<td>-0.115***</td>
<td>-0.0356***</td>
<td>-0.0851***</td>
<td>0.000194</td>
<td>-0.0522*</td>
<td>-0.0192*</td>
<td>-0.0327</td>
</tr>
<tr>
<td>GDP</td>
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<td>-0.00931</td>
<td>-0.0262</td>
<td>-0.0589</td>
<td>-0.0283</td>
<td>-0.0102</td>
<td>-0.03</td>
</tr>
<tr>
<td>GDP growth</td>
<td>-0.325*</td>
<td>-0.462***</td>
<td>-0.0831***</td>
<td>-0.251***</td>
<td>0.169</td>
<td>-0.248**</td>
<td>-0.0239</td>
<td>-0.0536</td>
</tr>
<tr>
<td>Polity</td>
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<td>-0.0793</td>
<td>-0.0284</td>
<td>-0.0868</td>
<td>-0.272</td>
<td>-0.12</td>
<td>-0.045</td>
<td>-0.119</td>
</tr>
<tr>
<td>WB Loans</td>
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<td>-0.00629</td>
<td>-0.00196</td>
<td>-0.00469</td>
<td>-1.82E-02</td>
<td>-0.006</td>
<td>-0.00203</td>
<td>-0.00508</td>
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<td>Country fixed</td>
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<td>Yes</td>
<td></td>
<td>Yes</td>
<td>Yes</td>
<td></td>
<td>Yes</td>
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<tr>
<td>effects</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Observations</td>
<td>1,551</td>
<td>1,651</td>
<td>1,651</td>
<td>1,651</td>
<td>1,551</td>
<td>1,651</td>
<td>1,651</td>
<td>1,651</td>
</tr>
<tr>
<td>Countries</td>
<td>134</td>
<td>134</td>
<td>134</td>
<td>134</td>
<td>134</td>
<td>134</td>
<td>134</td>
<td>134</td>
</tr>
</tbody>
</table>

Table 5: The Effect of Ranking on reductions in time, cost and procedures for starting a business. Note: all reform variables and economic variables are logged. All explanatory variables except year are lagged one year.
EDB Channels of Influence: Altering Information for Investors

Correlations linking ranking publicity to bureaucratic and policy reforms are one thing; causation involving specific mechanisms is another. We have argued that the Bank promulgates ranking information to pressure states to conform to its favored policies. We have shown that governments pay attention to these rankings, that they have altered their bureaucracies strategically to enhance their performance rankings, and that media coverage suggests that competitive signaling to domestic constituencies and investors is one important reason. But does the information contained in the ratings themselves plausibly change important groups’ perceptions enough to encourage reform?

Governments have told us – repeatedly and in public – that ascending the EDB rankings will improve their countries’ ability to attract business investment. It is therefore tempting simply to run a regression to see whether improvements in the ratings do attract more capital, but this would not help to understand the effect of rankings per se because it is nearly impossible with observational data to separate the ranking effects from the underlying qualities rankings purport to measure. In fact, economists have run such tests, and have shown that the EDB rankings are, as expected, highly predictive of inward FDI when included in standard models of foreign investment flows. These studies conflate the ranking information with the underlying business environment, and assume they are the same thing. Corcoran and Gillanders for example assert that the EDB rankings are “a very objective measure of regulation,”57 and their study cannot – and was not designed to – separate ranking pressure from underlying characteristics of the

57 Corcoran and Gillanders 2015.:105.
regulatory environment. The ease of starting a business component of the rankings has also been used to predict new business start-ups, which is offered as evidence of the positive effects of “good governance” but could just as well entail a distinct ranking effect; the point is, we cannot distinguish these claims with such correlations.58 Critical legal research59 as well as statistical studies60 have warned against the methodological, substantive and conceptual problems with relying on the EDB indicators for assessing the business environment. To accept any EDB-investment correlation on face value reinforces the common but potentially fallacious assumption that rankings are meaningful – an assumption that fuels their impact, but which is precisely the relationship scrutinized here.

A better way to explore the causal claim of the power of the ranking per se is with a survey experiment. The goal is to test whether the “false reductionism”61 of the EDB rankings impact how investors assess investment risks. No study to date – positive or critical – has shown that the rankings frame how investors think about risk. To do so we recruited 150 investment professionals, and manipulated information about EDB rankings, controlling macroeconomic information for a hypothetical “emerging market economy” (based on India and using Indian macroeconomic information) and varied the EDB rankings as treatment.62 We hypothesize that even when controlling for important economic and political conditions, information about EDB rankings will influence the willingness to recommend an investment in the ranked country. By changing investors’ information set, we are testing whether the upper right loop of the argument

59 Michaels 2009.
60 Pinheiro-Alves and Zambujal-Oliveira 2012.
62 These experiments were preregistered with www.egap.org.
in Figure 1 causally alters investors’ perceptions and therefore plausibly provokes the “government concern” in the lower part of the Figure.

A perfect approximation of a real-world information environment that informs investment assessment is experimentally unattainable. We do not purport to estimate the EDB’s impact on investments in the real world, but rather, to show it is plausible that EDB rankings – which may or may not reflect a meaningful reality – prime investment attitudes. In reality, investors confront a more crowded information environment than that in the experiment. But it is also clear that investors depend heavily on a few crucial economic indicators as well as other heuristics when making decisions.63 We included critical macroeconomic information and alerted investors that the hypothetical country was an “emerging market economy,” capturing enough salient features of investor decision-making sufficient to glean some insights into EDB’s influence on investors’ assessments.

The panel of 150 investors was recruited by Qualtrics through a partnership with over 20 Golden Mean certified and actively-managed online market research panel providers.64 Respondents were subjected to comprehension checks, asked to answer free response questions, highly-compensated for their time, and directly recruited by Qualtrics – which verified their status as industry professionals. To be clear: we do not claim to have recruited a “globally representative sample of investors” – which we would not begin to know how to define. The sample of portfolio managers are upper middle-class investment professionals living across the

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63 For an in-depth exploration, see Mosley 2000. Sometimes these heuristics are surprisingly unrelated to economic fundamentals. See for example Gray 2013.
64 It was pre-tested on “mTurk Masters.” Treatment effects were present for both experiments, but were stronger and more significant for investors, who are more familiar with investment decision-making.
United States. All participants had over five years of experience in the investment industry. About half had over twenty years of experience. Roughly half held high-level positions at their investment firm, such as senior director, managing director, vice president, partner, principal, or president/CEO. Investor strategies varied, with nearly half identifying as value investors and others identifying as macro, stock, bond, long/short, and activist investors. The average respondent was fifty years old; the oldest was seventy-eight and the youngest twenty-six. Roughly three-quarters of respondents were male.

Portfolio managers made up three-quarters of the respondents, while others worked in private equity, venture capital, bank lending, and other investment sectors. Portfolio managers are a hard test for EDB influence. Because they buy and sell securities of foreign firms that are already operating in difficult environments, they should be less sensitive to the EDB ranking than direct investors, for whom day-to-day business operations are a primary concern. Portfolio investment is of significant concern to emerging market states since its rapid outflow can precipitate currency and financial crises, which makes the experiment more relevant to emerging economies. Without claiming representativeness, this panel is one of the few in international relations research to recruit relevant professionals rather than draw from students or the general population.

To avoid self-selection bias, recruitment did not involve any discussion of the survey contents. Respondents received a non-trivial incentive for their participation from Qualtrics or its market research partners, and the response rate was 32%. The survey asked respondents to consider an investment in an unnamed emerging market country. To ensure findings are not an artifact of hypothetical conditions, we used India’s true (announced) EDB goals and
macroeconomic information – the exact information with which investors and the broad public have been “treated” in reality. Respondents were assigned to one of three groups: a control group and two treatment groups. Those in the Control Group (No EDB information) were given four macroeconomic facts about an unnamed country which, unknown to them, was based on India: Real GDP Growth: 7%; Inflation Rate: 6%; Unemployment Rate: 10%; Per Capita Income: $6000. Those in Treatment Group 1 were given these same four macroeconomic facts but were also told that the unnamed country had an EDB rank of 30, which in fact is Indian Prime Minister Modi’s target rank for India. Those in Treatment Group 2 were given the same four macroeconomic facts, but were told that the unnamed country had an EDB rank of 130, which is India’s pre-reform rank. Thus, both the panel recruits and the information they were provided are highly realistic, imbuing the survey with as much external validity as is possible in the inherent confines of an experimental setting.

Respondents were asked, all things equal and based only on the information they were given, how likely they would be to recommend investment in the unnamed country. Answers were scored on a seven-point Likert Scale with 7 serving as the highest likelihood of recommending investing and 1 the lowest. Higher scores and positive coefficients reflect an increase in likelihood of investment. In addition to OLS, three other tests were used: a bootstrapped T-test, a non-parametric Wilcoxon Rank Sum test, and OLS including a series of controls such as investment industry, investment strategy, title, experience, and the respondent’s assumption of where the country was located.

65 To check whether people were guessing that this was India, we asked participants to later identify which region they thought the country was in and no clear pattern emerged. This variable was also used as a control.
The EDB ranking significantly affected investors’ expressed intent to recommend investment. Relative to respondents who were told the unnamed country had an EDB rank of 130 (Treatment 2), those told it had a rank of 30 (Treatment 1) said on average that they would be far likelier to recommend investment (by more than one full point on a seven-point scale; or roughly 19% more likely). This finding was significant across all four statistical tests at p<.01 (Table 6).

<table>
<thead>
<tr>
<th></th>
<th>OLS</th>
<th>OLS With Controls¹</th>
<th>Bootstrapped T-Test</th>
<th>Wilcoxon Rank Sums Test</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>EDB Rank of 30 vs. EDB Rank of 130</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EDB Rank of 30 vs. EDB Rank of 130</td>
<td>1.1273***</td>
<td>1.1090***</td>
<td>1.1230***</td>
<td>W=780***</td>
</tr>
<tr>
<td></td>
<td>(.3313)</td>
<td>(.3763)</td>
<td>(.3372)</td>
<td>p=.0025</td>
</tr>
<tr>
<td></td>
<td>p=.0010</td>
<td>p=.0044</td>
<td>p=.0008</td>
<td></td>
</tr>
<tr>
<td><strong>Control vs. EDB Rank of 130 EDB</strong></td>
<td>.9758***</td>
<td>.5920*</td>
<td>.9774***</td>
<td>W=1873***</td>
</tr>
<tr>
<td></td>
<td>(.3020)</td>
<td>(.3512)</td>
<td>(.3001)</td>
<td>p=.0024</td>
</tr>
<tr>
<td></td>
<td>p=.0017</td>
<td>p=.0962</td>
<td>p=.0012</td>
<td></td>
</tr>
<tr>
<td><strong>EDB Rank 30 vs. Control</strong></td>
<td>.1515</td>
<td>.3956</td>
<td>.1503</td>
<td>W=1071</td>
</tr>
<tr>
<td></td>
<td>(.3645)</td>
<td>(.4046)</td>
<td>(.3632)</td>
<td>p=.7023</td>
</tr>
<tr>
<td></td>
<td>p=.6790</td>
<td>p=.3320</td>
<td>p=.6790</td>
<td></td>
</tr>
</tbody>
</table>

*p<.1, **p<.05, ***p<.01
¹Industry, Strategy, Title, Experience, Assumed Region

Table 6: Experimental Results of Ranking Differences on Investment Likelihood. Note a positive coefficient entails a higher Likert score and a greater willingness to invest in the first group relative to the second.

Relative to the control group with no ranking information, those told the unnamed country had an EDB Rank of 130 said they would be much less likely to recommend investment (by .95 points on a seven-point scale, or roughly 18% less likely). This was significant at p<.01

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66 We also asked respondents what their preferred return would be for this investment. Most respondents complained that this specific question was too difficult to answer. Consequently, answers to these questions exhibited a wide dispersion and no significant differences among groups.
across all four tests and suggests politicians may be right to fear that a poor EDB ranking could reduce investment. Within this experiment, a higher EDB rank induced greater investment enthusiasm than a lower rank, and low rank significantly depressed willingness to recommend investment relative to no EDB ranking information at all.

In a free-response section after the survey, many respondents who received the EDB rank of 30 noted its influence on their investment recommendation. One respondent wrote: “While real GDP growth is substantial, the high unemployment rate is of some concern…[and] already high inflation could get worse…Ease of doing business certainly helps however.” Another thought EDB helped mitigate uncertainty: “while there are risks…it is comparatively easy to do business.” One investor even noted that the country was a “great growth opportunity” because of its “low economic barriers” as indicated by the EDB ranking. Conversely, those who received the low ranking of 130 also suggested it guided their decisions negatively. As one respondent argued, “While the GDP growth and income numbers suggest potential, the unemployment rate and poor ease of doing business rank indicate some structural issues with the country and its governance” (italics added).

Finally, those who received an EDB rank of 30 were more likely on a seven-point Likert scale to believe the government was more competent, less corrupt, would attract competing investment, and would not discriminate between foreign and domestic investors compared to those who received a rank of 130. While these results do not quite achieve statistical significance, they tell a consistent story. They also suggest that the EDB may appeal to governments as an “easier” way to attract capital than a far-reaching anti-corruption campaign or an expensive infrastructure program, as the case of India below shows.
The conclusions drawn from this experiment are significant but limited. Emphatically, it does not prove that high EDB rankings actually increase investment. It does show that the EDB ranking is an important piece of information that can frame how investors assess investment risk. The framing effect in this experiment illustrates precisely the hypothesized causal mechanism. One might be concerned that surveyed investors are just expressing their own pre-existing belief that rankings represent genuinely better business conditions. This may be so, but it is not inconsistent with the proposed mechanism that ranking information influences investor thinking. We are agnostic about what the EDB “really” captures (though we have cited several skeptical studies). Such a belief merely suggests investors find the rankings useful, perhaps even credible. In the hands of the World Bank, such ratings induce pressure – based on officials’ beliefs about investors’ beliefs informed by the ranking – to adopt the reforms that will boost their state’s rankings.67

**Tracing Influence Channels in Modern India**

The preceding sections have assembled evidence that the EDB has shaped state behavior and suggests that it can frame the attitudes of investors and other salient groups. This

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67 In a separate experiment described in the appendix, we found similar ranking effects on the part of the Indian general public, illustrating the potential for a “domestic constituency effect” described in the symposium introduction. Members of the general public typically have almost no sense of how the business environment at home compares with that elsewhere. The EDB may be one of the few ways these groups can come to learn about whether or not it is reasonable to expect one’s own government to do a lot better than it has done to date. In this separate experiment conducted with Indian citizens, information about India’s EDB rank of 130 was held constant, but the rank of China – a status competitor for India – was manipulated. A high Chinese ranking was found to stimulate competitive expectations and increase the importance Indians attached to a high EDB ranking and the priority they placed on a better business climate. The experiment offers another plausible way the Bank leverages its ability to apply social pressure to conform. See the Appendix for a description of the experiment and findings.
case study explores these mechanisms in the case of India. It shows that the EDB indicator has created social pressure by encouraging political actors to believe their status is at stake and in competition with other countries and even other Indian states. That competition is heightened because of the perception that investment and political support are at stake. Indian officials seek to improve their EDB rankings because they believe it will win votes, secures investment, and improves official reputations – and they organize major inter-agency efforts to ascend the rankings. The case ties together much of the preceding evidence, demonstrating that changes in informational framing spark concerns about current and future rankings, and incentivize state reform behavior.

India provides an important—though not an obvious—case to explore these channels. It is significant for its sheer size. If the EDB Index influences policy in the fifth largest economy in the world, the “average” effects described in the observational analysis are even more important. The research is based exclusively on independent (non-World Bank) evidence, including Indian Hindi and English-language media and primary sources. It demonstrate that the reformist government of Narendra Modi has made climbing the ranks of EDB a central feature of his government’s agenda. The effort has been mentioned in party platforms, is explicitly coordinated through inter-agency mechanisms, and is implemented in part through local governments by using sub-national rankings to stimulate competition, embarrass opponents, and reward supporters. Together, the contextualized Indian evidence strongly suggests, per the introductory essay, that Indian political figures and bureaucrats anticipate and react to the EDB pressures transmitted through political, investment, and bureaucratic channels. It also demonstrates
strategic behavior on the part of Modi’s government, with EDB-related reforms undertaken in large part for their value in lifting India’s ranking.

Background

Narendra Modi began to focus on the EDB Index late in his 2013 campaign for Prime Minister. Emphasizing the business-friendly roots of his political party, the Bhartiya Janata Party (BJP), Modi blamed India’s poor rating on the ruling Congress Party and promised to improve the ranking. The BJP implicitly included EDB Index improvement in the 2014 party platform when it promised “making 'doing business' in India easy.”

Not long after Modi assumed power with the largest parliamentary majority in decades (2014), he announced the “Make in India” program, a set of policies intended to attract investment and transform India into a manufacturing powerhouse. The EDB Index was central to this new campaign. It was linked to manufacturing and investment within the BJP policy platform, and in subsequent official policy. In fact, Modi first formally announced his EDB initiative in a major national speech launching the Make in India Campaign. The effort to improve India’s EDB ranking is integral to the country’s most visible domestic economic program and is a signature Modi initiative.

Modi has always been clear that his EDB-related reforms were not about improving microeconomic incentives but about signaling a welcoming investment climate through a higher EDB ranking. In his speech announcing his EDB effort, Modi declared that, “Industrialists don’t come due to some fancy incentive scheme. One can say you will get this or that we will make

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this tax free or that tax free. Incentives don’t work.” 69 Instead, “the investor first wants the
security of his investment. Growth and profit come later,” Modi argued. For that reason, India
needed to send a signal to investors that “your money will not sink.” The EDB initiative was part
of that signaling effort and Modi committed his entire team in Government to improve India’s
ranking from 130 to 50, and then later to 30. While the reforms adopted may well have economic
benefits that ordinarily could explain their adoption, these were undertaken for symbolic rather
than economic value. The prime minister’s words and behavior reveal a belief that rankings
matter more than economic incentives – they improve India’s reputation, and thereby attract
investment.

Coordinated Efforts to Improve India’s EDB Ranking

Modi followed up his 2014 announcement of an EDB initiative with a wide-ranging
interagency coordinated effort to improve the country’s ranking. India’s most powerful
bureaucrat, the Cabinet Secretary, has called high-profile meetings of senior officials to discuss
how to improve India’s ranking.70 These efforts are coordinated not only through the Department
of Industrial and Policy Planning (DIPP), which has been tasked with leading Modi’s “Make in
India” campaign and coordinating state-level reforms. Roughly a month after Modi announced
the initiative, DIPP published a report with 46 policy proposals across several government
ministries hewing almost precisely to the Bank’s sub-indicators and intended to improve India’s
ranking. The Indian government has adopted many of these reforms, including reducing the

69 Modi 2014
70 "DIPP Suggests Steps to Improve Business Climate" 2014.
number of days it takes to register a business from 27 to 1; simplifying application forms for industrial licenses; placing license applications online; exempting several business from licensing requirements; extending the validity of licenses; raising FDI caps in several industries; introducing a new regulatory reform law; simplifying import-export documentation; and abolishing the Soviet-style Planning Commission. At the sub-national level, in December 2014, the DIPP sponsored a meeting of central and local governments where state leaders committed to a 98-point action plan to improve EDB at the local level. DIPP also created a list of 344 recommendations for state-level governments, and organized meetings through which states were to share their best practices. Regardless of whether these reforms have economic benefits, they are generally discussed by DIPP as ways of improving India’s ranking.

The Modi government – convinced of the very EDB influence channels this paper identifies – even chose to reproduce the international EDB competition domestically among Indian states. In concert with the World Bank, the central government created its own state-level EDB indicator to score India’s states on their compliance with the 98-point action plan and publicly praise or criticize them for their performance. In one report, seven Indian states led by the BJP made the top ten, suggesting either party-line cooperation or efforts to reward political allies through the ranking. These rankings were then used as framing devices in domestic politics, instruments to attract state investment, and as proxies for bureaucratic competence. For example, during a visit to BJP-governed Jharkhand, Modi praised its leaders for working hard to

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71 Nidhi 2015.
73 Chitravanshi 2015.
improve their EDB ranking. In advance of critical elections in Bihar that would determine the balance of power in India’s upper house of parliament, Modi’s finance minister attacked Nitish Kumar, the chief minister of Bihar, for his state’s low EDB ranking in 2015: “Nitish says let us debate the development issue. What is there to debate? This debate is over. Gujarat [the state Modi previously managed] is number 1 and Bihar stands at 21 [on EDB]. The economy speaks through statistics and not through debate.”

Since Modi took office, the World Bank has supported India’s attempts to climb the EDB Index, and publicly praised the government for its ambition. The Bank explicitly recognizes its rankings shape Indian politics. It offered an explanation for why India’s ranking ascended so little in Modi’s first year that absolved him of responsibility; praised him regularly for his cooperation with the Bank; and even sent the World Bank CEO to attend Modi’s celebratory address on India’s thirty-place climb and first-ever entry into the top one hundred ranks. Attesting to the importance of the rankings per se, Indian officials have also actively lobbied the World Bank’s Doing Business team to improve their scores. As one senior government official involved in those meetings noted: “We listed a host of measures we have taken to cut red tape and improve business environment in the country. We are confident of seeing a substantial improvement in our ranking this year.”

75 "Arun Jaitley Counters Nitish Kumar." 2015. The Times of India.
77 "DIPP Urges World Bank to Upgrade India’s Ease of Doing Business Ranking" 2015.
78 "DIPP Urges World Bank to Upgrade India’s Ease of Doing Business Ranking" 2015.
**EDB Index Channels of Influence**

The India case illustrates several of the influence channels described in the symposium introduction. First, it demonstrates domestic political channels. Indian politicians acted as if they thought the Indian public may be sensitive to the status implications of the EDB Index; indeed, when Modi was an opposition politician, his party used the country’s low ranking to shame the incumbent government. Modi himself campaigned on the promise of making improvements. In office, he is making better rankings a priority.\(^7^9\) Despite criticism, he has doubled down on his commitment to improve India’s ranking and has, if anything, scaled up his ambitions by setting a new goal to rank in the top thirty. Importantly, Modi made this commitment credible by promising to achieve a high target rank *before* the next election, allowing voters to punish him for failure. In short, Modi has hitched his domestic political reputation to the *rankings* – not to a specific growth figure or a poverty reduction goal. His own public commitments – and the Banks’s efforts to avoid embarrassing him – suggest the ranking competition is a significant driver of Indian policy.

Even as India’s growth slowed to a three-year low ahead of the next national elections, Modi leaned on India’s thirty-place climb in EDB rankings to demonstrate he had improved India’s status and its economy.\(^8^0\) He gave a major address dedicated to India’s thirty-place climb in the rankings and trumpeted India’s success relative to other countries: “This year, India’s


jump in ranking is the highest [of all countries]. India has been identified as one of the top reformers…. [and] may become an example for many other nations.” To make EDB even more politically salient, Modi linked it to the “life of a common man” by recasting it as the “Ease of Living Life” indicator. He also leveraged the rating to shame his opposition:

“Had these kind of reforms… been carried out during [the opposition’s] tenure, then our ranking would have improved much earlier. And the credit for improvement in ranking would have gone to them…. they did nothing and have had been raising questions about someone who has been doing something. It’s just a coincidence that the World Bank started the process of releasing the ease of doing business ranking in 2004. It’s an important year. And all of you know who was in the government [the Congress Party] since then till 2014.”

One of India’s major newspapers, The Indian Express, wrote that India’s thirty-rank increase “comes as a shot in the arm for the Narendra Modi government amid dissenting voices in certain quarters about implementation of the Goods and Services Tax (GST) as well as demonetization,” two policies that had called into question Modi’s economic credentials. For that reason, Modi’s chief political opponent, Rahul Gandhi, has made attacking Modi’s EDB gains a part of his stump speech, stating that Modi’s team “listens to outsiders” and should instead ask the Indian people “whether ease of doing business has improved for them… What is spoken abroad is truth for this government but what the poor say in India is farce.” These statements together demonstrate that India’s leading politicians act as if EDB shapes domestic politics and recognize the high ranking as status-enhancing for India.

Second, the case demonstrates that political figures in emerging markets act as if they believe the rankings will affect investment levels, which complements the experimental evidence above. Modi repeatedly states the belief that EDB affects investment levels. A review of all Modi’s foreign addresses establishes that he has broadcast his ambitions on the EDB on virtually every foreign trip for three straight years, including addresses before Davos and the G20 as well as to audiences in capital-rich countries like the United States, China, France, Germany, Japan, Saudi Arabia, South Korea, and the United Kingdom, among others. \(^8^4\) Modi even created a joint “Ease of Doing Business Group” with the United States during the first U.S.-India Strategic and Commercial Dialogue – another signal to the global community that India is a secure and easy place to do business – and has repeatedly declared his belief that EDB efforts have helped attract record investment. \(^8^5\)

Third, the case demonstrates the importance of bureaucratic channels. Modi embedded the EDB effort in the national bureaucracy, created interagency structures to improve the ranking and tied its success or failure at the national level to specific officials. At the state level, he launched a sub-national ranking mechanism and used state EDB rankings to praise reformers and shame laggards, triggering reputational mechanisms among local Indian politicians and bureaucrats. He has publicly acknowledged these mechanisms and declared that under his sub-

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\(^8^5\) [https://www.narendramodi.in/pm-modi-attends-programme-on-ease-of-doing-business--537653](https://www.narendramodi.in/pm-modi-attends-programme-on-ease-of-doing-business--537653) Last accessed November 10, 2018
national ranking system states are “often competing with each other in implementing business reforms,” which will help the country’s overall ranking.86

The channels discussed in the symposium introduction are on full display in India. Modi would have been a reformer regardless, but he latched onto the EDB Index as a tool because he believes that domestic political actors, foreign investment communities, and professional bureaucrats care about the index too. In so doing, the index became influential in giving content to his reform ambitions. He even encouraged his subordinates to pursue EDB-tailored reforms. Thus, the EDB Report and rankings are clearly shaping the policy response in one of the world’s largest and fastest growing economies.

Conclusion

GPI creators aim not only to call attention to their issue and set standards of appropriate behavior; most hope to change policy outputs and—ultimately—outcomes. By relying on multiple forms of data, we have presented considerable evidence that the World Bank’s EDB Index motivates reforms, perhaps even above and beyond those one might expect from consulting with or borrowing from the World Bank alone. One interviewee in the investment consulting industry exclaimed unprompted that the EDB Index was one of the most effective things the World Bank had ever done.87

The news is good for those who support the contents of the EDB Index and want to use it as a model in other areas.88 For those who believe the EDB Index is flawed, its influence is cause

86 https://www.narendramodi.in/pm-modi-attends-programme-on-ease-of-doing-business--537653. Last accessed November 10, 2018
87 Anonymous interview with authors, August 2014.
for concern. Despite episodes of pressure to withdraw the rankings or alter the criteria by countries such as China or organizations such as the ILO, the Bank has continued to rank states because it believes the Index is indeed an effective tool. Interestingly, both critics of the EDB Index and the Bank’s refusal to drop it assume EDB rankings have an effect – for good or for ill – on reform policy. Ours is the first study to systematically document the major influence channels that connect an annually-published rank-ordered list of countries with powerful policy trends and consequential shifts in state behavior.

The most important message of this research is what it says about new ways to capture governance spaces and exert social pressure by using ingenious forms of communication. GPIs are communication strategies to draw attention to issues, and to define problems and offer solutions using extreme forms of simplification. As such, they are an international counterpart to “nudge” tactics much touted by behavioral economists and psychologists as ways to shift human behavior in desired ways. Actors that try to create competitive dynamics and other forms of social pressure through ranking systems know that they oversimplify reality, strip concepts of their context and history, and offer a false sense of precision and certainty. But the point of ranking systems is to change behavior, not to faithfully render reality. The ILO has understood this point very well and has been a strong proponent of keeping the labor flexibility measures out of the Bank’s overall EDB Index, while countries like Saudi Arabia have balked at the recent addition of gender components.

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89 In 2013 a formal review (Independent Doing Business Report Review Panel, 24 June 2013, Washington D.C.) commenced following pressure from China which was unhappy with its rankings, discussed tensions over the rankings and once again recommended that they be removed. The Bank ignored the recommendation. https://www.economist.com/leaders/2013/05/25/stand-up-for-doing-business, Last accessed November 10. 2018.

90 Sunstein et al. 2010.

91 Merry 2011.
This deep-dive into the World Bank indicator has important high-altitude implications for global information politics and governance. It reminds us that information is not neutral, but rather is an important power resource. The World Bank has used the EDB Index to consolidate its authority to address not just development lending, but business regulation as well. Arguably, the case of the World Bank’s EBD Index suggests that cumulative effect of widespread comparative quantification is to reinforce global power structures.⁹² That said, there is some evidence that alternative power centers – notably China – understands the game and will soon launch a few new rankings of its own, and its Asian Infrastructure and Investment Bank may eventually be as much an opportunity to offer alternative scorecards for states as it will be a resource for finance.

This study helps explain the influence of rankings in international relations. Combined, the evidence goes beyond the standard scrutiny of the validity of the EDB data to show that rankings per se stimulate competitive dynamics with policy consequences. These findings invite examination of related questions. For example, is it wise to pursue complex policies of deregulation by deploying simple heuristics, such as ranking systems? Do states regularly game such systems to improve their scores rather than select the most appropriate policies?⁹³ Who gains “authority” to rank, and why? Is it fair that a few actors world-wide can use first mover advantage and other strategic positions to set standards over which states are then pressured to compete? How should the use of GPIs as tools of governance themselves be governed – purely

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⁹² Löwenheim 2008.
⁹³ While countries often start with easier, more actionable, reforms, we explored gaming in several ways, but found no systematic evidence for it.
by the market place of ideas? These and other questions need answers if we are to understand the full range of normative issues associated with the power of assessments in global governance.
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