

Article

Political Risk Insurance: A New Firm-level Data Set

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Abstract

When do governments impose costs on foreign firms? Many studies of foreign direct investment focus on incentives for government expropriation, but scholars are often forced to rely on indirect measures of expropriation to conduct empirical analyses. This article introduces a data set which includes information on over 5,000 political risk insurance contracts issued by the US Overseas Private Investment Corporation since 1961, and on all the claims filed by investors under these contracts. These detailed insurance data allow us to study the determinants of foreign investors' losses from a variety of sources, including expropriation, inconvertibility, and violent conflict. To illustrate the benefits of these data for hypothesis testing, we adopt a comprehensive empirical approach and explore both shared and distinct causes across risk categories.

Keywords

expropriation, foreign direct investment, inconvertibility, insurance, multinationals, political risk.

Private firms often suffer losses due to government action. Regulations can reduce profits as firms bring themselves into compliance; restrictions on currency convertibility can undermine the profitability of an investment for foreign shareholders;

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political conflict can spill onto the streets, preventing employees from going to work and delaying production. In the extreme, outright expropriation can undermine a firm's ownership of its assets and the associated profits.

The possibility that government actions will reduce firm profits is one of the leading explanations for underinvestment in countries with weak property rights protection (Lucas 1990; Li and Resnick 2003; Jensen 2003). Unfortunately, documenting firm losses in a systematic fashion has proven difficult for political economists, because information about such events is not always made public. As a result, we know surprisingly little about the conditions that lead host governments to take actions that hurt foreign investors.

To fill that gap, we introduce a direct measure of firms' overseas losses. Our new data set includes information on over 5,000 political risk insurance (PRI) contracts issued by the US Overseas Private Investment Corporation (OPIC), along with matching information on all the claims filed by investors under these contracts. In addition to insurance contracts and claims, the data set includes information on over 1,500 financing projects entered into by OPIC. These detailed firm-level data—which cover 162 host countries over the 1961 to 2017 period—allow us to study the determinants of foreign investors' losses in a wide variety of political and economic settings, while holding constant the risk-mitigation strategies of those firms.

In the following, we briefly review prior works on the concept of political risk, and we outline the main measurement strategies used in this field. We discuss the market for PRI and the benefits of firm-level insurance data for the study of political risk. We describe a new data set documenting OPIC financing projects, insurance contracts, and insurance claims. Finally, we estimate several regression models drawing on extant theories about political risk. Our goal is not to produce precise estimates of causal effects. Rather, we treat this statistical exercise as a test of construct validity, which reinforces our belief that insurance data hold much potential for the study of foreign direct investment (FDI).

Political Risk

Foreign investment flows have the potential to increase growth and efficiency in poor countries and to equalize factor returns around the world. Nevertheless, large disparities in factor returns remain, and political risk helps explain their persistence. Even if the returns to investment are high, foreign investors may not enter a market if they cannot be sure that their property rights will be protected (Lucas 1990; Caselli and Feyrer 2007).

The property rights of foreign investors are central to the literatures on international investment agreements, domestic institutions, and cross-border supply chains. International investment agreements often codify the rights of foreign investors and specify dispute resolution mechanisms that supersede domestic courts, in which foreign investors may not get a fair hearing (Elkins, Guzman, and Simmons 2006;

Kerner 2009). The costs of arbitration and future underinvestment add to the credibility of investment treaties (Allee and Peinhardt 2011; Desai and Moel 2008; Pelc 2017). When agreements are absent, foreign investors may lean on political constraints, like veto players and democratic institutions, to guarantee their property rights (Jensen 2003; Li and Resnick 2003). Multinational corporations may strategically place different components of production in ways that maximize leverage over host country governments (Henisz 2000; Johns and Wellhausen 2016).

These works have improved our understanding of the political economy of FDI. Still, measurement remains a major stumbling block on the path to scientific progress in this field. In the next section, we consider the measurement strategies adopted in prior works and discuss how firm-level insurance data can complement and improve on these strategies.

Measurement Strategies

To understand how our new data can help researchers, we briefly survey the most common measurement strategies in the field.

Aggregate flows. Many studies of political risk use aggregate FDI data to *indirectly* assess their theories. For example, several authors have argued that democratic institutions foster strong property rights protection which, in turn, lowers political risk and attracts investment (Jensen 2003; Li and Resnick 2003). These authors look for evidence in support of their arguments by regressing aggregate FDI flows on a measure of democracy (or some associated concept).²

These analyses are extremely useful, as they relate two variables of great interest. However, focusing on macro-level quantities such as FDI flows also black boxes the causal mechanisms at work in those theories, namely, that (a) institutions reduce risk and (b) this reduction in risk attracts new investments. Our new firm-level data can thus be a useful complement to this approach, since it allows us to *directly* measure the losses that accrue to foreign firms in different countries.

Catalog of expropriation events. Another common strategy is to build catalogs of expropriation events, drawing on information from news reports, trade publications, and so on. Following the path-breaking work of Kobrin (1984), several authors have used such data sets to study the political factors that induce governments to seize foreign assets (Minor 1994; Li 2009; Guriev, Kolotilin, and Sonin 2011; Hajzler 2012; Biglaiser, Lee, and Staats 2017). These studies yield valuable insights, but the data they rely on are limited in some respects.

First, the temporal and geographic scope of the available data is often limited. Second, since data collection on individual events worldwide is very costly, researchers may not always be able to identify the full population of relevant events. This could potentially introduce biases in the statistical analysis. Third, existing data on firm losses often track expropriations but ignore less direct forms of firm losses. Recent studies recognize that other types of loss have become increasingly important

as governments abstain from expropriation; they instead emphasize currency convertibility for profit repatriation, violent conflict, and costly regulation that reduces firm profits (Graham, Johnston, and Kingsley 2016, 2018; Pelc 2017).

Our data set improves on the "catalog of events" strategy by covering a large temporal and geographic scope, using a well-defined universe of firms, and a broader array of event types.

International investment disputes. Disputes initiated under investor-state arbitration are also useful as a direct measure of firm losses (Allee and Peinhardt 2011; Freeman 2013; Wellhausen 2015b; Johns and Wellhausen 2016; Kim 2017). Unfortunately, we know that investment disputes are often kept private and that many firms do not have access to arbitration, since the cost of initiating such disputes is high, and because investment arbitration is often the last step in an escalating conflict between firms and host governments. As a result, it is not clear if investment disputes are representative of the population of interest. Our data set improves by precisely identifying the full population of firms with an OPIC insurance contract as well as the full population of firms that file claims.

Expert perceptions and insurance premiums. Scholars have also used country ratings, published by PRI providers and expert agencies, to infer the occurrence of firm losses: where premiums are highest, firms must suffer large losses (Jensen 2008; Jensen and Young 2008; Jensen 2012; Wilson and Wright 2017). These ratings are direct measures of the *ex ante* perception of the risk to which firms are exposed. However, they fail to measure actual firm losses, and their use as a proxy risks backward engineering insurers' methods for calculating risk, rather than locating the sources of firm loss. The OPIC data that we introduce here allow us to directly measure firm losses.

Kobrin's Challenge: Political Events versus Firm Losses

The empirical strategies described above have allowed political economists to make important contributions to the study of political risk. Our firm-level insurance data will allow researchers to build and improve on those contributions.

Over thirty years ago, Kobrin (1979) criticized the concept of "political risk" for its polysemic nature: it can refer to government actions that reduce the profitability of an investment (political events) or to the unwanted consequences of political activities (firm losses). Although closely related, conflating these two concepts is a mistake, and using a single measure to represent both raises serious conceptual and empirical issues. Kobrin's (1984) solution to this problem was to distinguish the business consequences of host state actions from the political events that drive those actions and to study political risk using data on expropriations. In the same spirit, we introduce firm-level insurance data below to empower researchers to disentangle the adverse events that firms experience from the background political conditions that cause those events.

PRI: Firm-level Data

As the previous section makes clear, empiricists have been extremely creative in finding measures to study the problem of political risk. In this article, we argue that a focus on firm-level insurance claims data can complement and improve upon prior approaches. Now, we briefly discuss the market for PRI, before describing the organization which is the source of our new data.

The Overseas Private Investment Corporation

Foreign investors can purchase PRI from many providers. Dozens of private carriers offer insurance and reinsurance,³ and many countries offer public PRI through their export credit agencies or separate entities. Indeed, almost all OECD members and many emerging markets offer some form of PRI to firms that meet citizenship requirements. Moreover, the World Bank's Multilateral Investment Guarantee Agency has since the mid-1980s offered PRI to firms that cannot obtain it from their home government.

The American government was the first public entity to issue PRI, originally as part of the Marshall Plan (Whitman 1965; Lipson 1985). PRI services were initially offered by the Export–Import Bank of Washington and then by the US Agency for International Development (USAID). In 1971, OPIC was created to take over those programs. It provides financing, guarantees, and PRI to American firms that want to invest in emerging markets. OPIC operates on a self-sustaining basis, by charging for its services. Since its inception, the organization has supported over US\$200 billion of investment in more than 150 countries, and it has regularly deposited profits in the US treasury.⁴

Since OPIC, USAID, and the Export–Import Bank are public entities, they are subject to requests under the Freedom of Information Act. As a result, we were able to obtain firm-level data on over 1,500 financing projects and 5,000 insurance contracts issued between 1961 and 2017. Then, we used OPIC's annual reports to identify every claim for which a monetary settlement occurred since 1966, and we matched each claim to the original insurance contract manually, using background information from various sources. Our data set also includes information on the sector of each project, as well as dollar amounts for the level of insurance guarantee or financing. To our knowledge, this article is the first to study the full sample of OPIC insurance contracts and claims at the investor-country-year level. These data offer an unparalleled look into the determinants of politically related losses experienced by firms.

Insurance Claims and Firm Losses

OPIC currently covers five categories of risk: (i) inconvertibility of funds, (ii) expropriation, (iii) losses caused by material changes in project agreements unilaterally imposed by the host state, (iv) political violence, and (v) terrorism. We code dummy

variables to identify the category in which insurance claims are filed. In the analysis that follows, we combine categories (ii) and (iii), as well as categories (iv) and (v), in order to produce three claims categories: inconvertibility, expropriation, and political violence. We do this because claims are relatively rare events, and because these groupings are conceptually coherent. By extending the scope of measurement beyond expropriation, this insurance data opens up many fruitful avenues for future research.

In this article, we treat PRI claims as a proxy for firm losses. However, it is important to acknowledge that this interpretation is somewhat imprecise. Indeed, many of the OPIC-covered companies that suffer losses due to political events eventually receive compensation under their insurance contracts. Nevertheless, we stress that the adverse events that our data document are real and that the losses are often felt for a period of months or years before insurance payouts. According to Peinhardt and Allee (2016, 216), the average time to resolution for OPIC claims is over 700 days, a period during which firms experience considerable risk and uncertainty. Although no measurement strategy is perfect, we believe that insurance data are one of the best (and only) ways to document the adverse events experienced by a well-defined universe of "at-risk" firms, operating in a broad range of countries, over a long period of time.

The occurrence of such adverse events is closely related to the concept of "political risk," but it is not identical. Political risk is the likelihood that a government will implement policies which are costly for foreign investors; this concept is prospective in the sense that it captures whether a firm anticipates losses due to government actions in the future. In contrast, our measure retrospectively captures firm-identified incidents where actual losses occurred.¹⁰

Are OPIC Data Representative?

One of the biggest challenges in the empirical study of political risk is selection bias. For instance, empirical work using data on investment claims at the International Centre for the Settlement of Investment Disputes (ICSID) often ignores two major sources of bias. First, access to ICSID is typically limited to deep-pocketed firms from countries whose governments have an investment agreement with the host. 11 Second, ICSID reporting is notoriously opaque, since governments may opt to keep cases confidential. Similarly, catalogs of expropriation events can suffer from important blind spots because of their limited geographic and temporal scope, and because they tend to be "compiled from secondary sources and [to] cover nationalizations that have received the most public attention" (Biglaiser, Lee, and Staats 2017, 318).

In contrast, the data set that we introduce covers a well-defined universe of firms, and it records the full set of insurance claims settled under those contracts. The geographic scope of the data set is vast and the time coverage extensive. Moreover, PRI settlements are generally less controversial and smaller than awards from other investor-state disputes. When OPIC claims are settled, firms receive around 90 percent of total claims on average, and over half of awards total less than US\$400,000 (in 2005 USD, authors' calculations). Firms thus appear to use PRI

to manage smaller downside risks than the extraordinary adverse events that trigger investor-state dispute settlement (ISDS). It thus seems reasonable to treat the observations in our data as representing a more "normal" set of assets and risks. ¹²

At the same time, OPIC insurance data raise selection problems of their own. By definition, our data set can only include US firms that have purchased OPIC insurance or financing. Risk insurance from the US government may cause domestic governments to calculate costs carefully before taking action that could result in a claim, ¹³ since insurance settlements often involve the transfer of assets from the covered firm to the US government. More generally, PRI covers a relatively small fraction of total FDI, ¹⁴ and it is more likely to be purchased by firms that are more at risk than is typical. Thus, empirical findings about the determinants of OPIC claims may not be generalizable to the full population of foreign investors.

Unfortunately, since our firm-level data set is the first of its kind, and since we have limited information about the firms themselves, we do not have good external benchmarks against which to measure the representativeness of the data we observe. ¹⁵ As such, we encourage those who use this data set to be cautious in their interpretation. One reasonable approach would be for researchers to make modest claims to generalizability, by limiting the scope of inference to the subset of firms that are likely candidates to buy PRI. A more ambitious approach would be to claim that conclusions extend beyond this limited subset. However, this would require making the untestable assumption that firm characteristics—beyond sector and project size—are conditionally independent from the probability of investing or suffering a loss.

In the Online Appendix, we use directed acyclic graphs to build intuition about the potential selection problems that researchers face when using OPIC data. In the next section, we use regression analysis to assess the construct validity of our measure (Carmines and Zeller 1979, chap. 2). We show that several observable patterns in our data accord with core theoretical expectations from prior works on political risk. This exercise increases our confidence in the validity of the measure.

Descriptive Statistics

Before moving to regression analyses, we offer a descriptive portrait of the data set. Figure 1 shows the evolution of OPIC financing projects, insurance contracts, and claims over time. In the left column, we see yearly total amounts; in the right columns, we see the number of observations. There are three types of events. In the first row, we see the insurance claims that OPIC settled. In the second row, we see the projects that OPIC financed. In the last row, we see the projects that OPIC insured.

Several points are noteworthy. First, OPIC's financial assistance program has increased in size over time, while the insurance program peaked in the early part of its existence under USAID. Second, insurance settlements are often concentrated in time, with many happening during the 1980s.

Figure 2 shows the geographic distribution of claims, finance projects, and insurance contracts. This graph shows that the largest share of OPIC-backed projects are

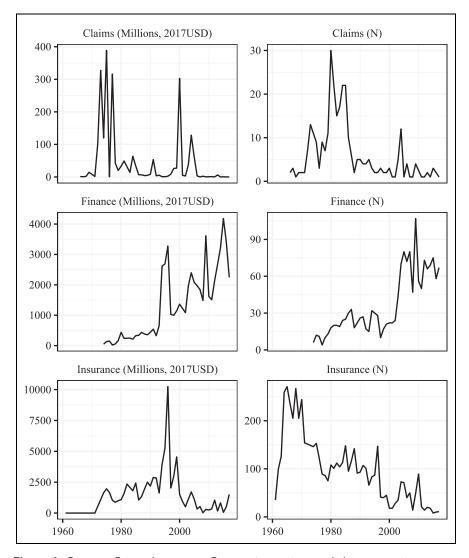


Figure 1. Overseas Private Investment Corporation projects and claims over time.

in Latin America. Another interesting pattern to note is the large number of claims emerging from sub-Saharan Africa relative to the number of insurance contracts issued to cover projects in that region.

Figure 3 shows the distribution of projects and claims across sectors of activity. These sector categories follow the ones recorded by OPIC. In terms of the number of insurance contracts issued, manufacturing is by far the most important category.

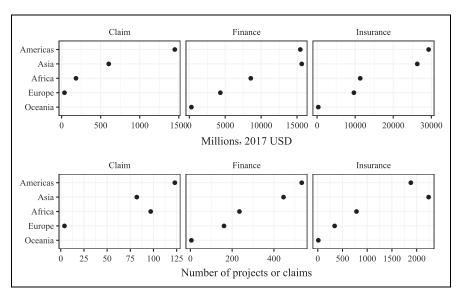


Figure 2. Overseas Private Investment Corporation projects and claims across regions.

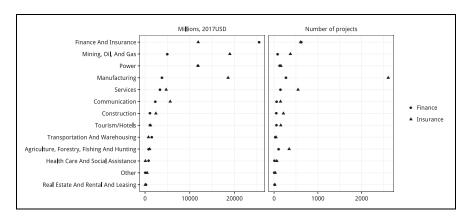


Figure 3. Overseas Private Investment Corporation projects and claims across sectors.

Regression Analysis

In this section, we test the construct validity of our data by estimating a series of regression models. Following Carmines and Zeller (1979), we derive theoretical expectations for how our new measure of firm losses relates to political and economic conditions. We then assess these expectations empirically. If the results are consistent with our expectations, it increases our confidence in the validity of the

measure (Carmines and Zeller 1979, 27). We build these empirical models using key intuitions from the literature on political risk. To be clear, our goal is not to produce credible causal identification. Rather, we want to check whether the events recorded by OPIC are consistent with baseline intuition.

Theoretical Expectations

The vast literature on FDI and political risk is fertile, and it offers many theories that help us develop expectations and hypotheses about the behavior of firms and host governments.

Political constraints make a government's commitment to investors more credible and can reduce the probability that investors experience losses. Early work anticipated a "democratic advantage" in attracting investment (Jensen 2003) due to strong rule of law (Li and Resnick 2003). Recently, scholars have concluded that this advantage likely stems from strong legal institutions (Biglaiser and Staats 2012; Biglaiser, Lee, and Staats 2017) and constraints on executive power in democracies, which enable policy makers to make credible commitments to investors (Jensen 2008; Li 2009). Credible commitments reduce the likelihood that a government will expropriate assets or impose limits on currency convertibility, which can be a form of "creeping expropriation" (Graham, Johnston, and Kingsley 2018). Political constraints also prevent power grabs and provide clear expectations for succession (Olson 1993), making armed political conflict less likely. We thus expect political constraints to reduce insurance claims due to expropriation, inconvertibility, and conflict.

Coalition turnover should increase firm losses. When a new ruling coalition seizes power, it often brings with it new priorities and can push leaders to renege on prior commitments (Leeds, Mattes, and Vogel 2009; Albertus and Menaldo 2012). A new coalition may also be targeted by violent challengers, as it has not yet consolidated rule. Although these expectations may be tempered by a new government's desire to build a reputation for property rights enforcement, we follow the extant literature in anticipating a positive association between coalition turnover and firm losses due to expropriation, inconvertibility, and conflict.

Capital intensive firms should be more likely to suffer losses, as capital intensive investments are less mobile. Firm owners are unable to move immobile investments abroad or withhold them from government extraction (Vernon 1971; Frieden 1994; Kerner and Lawrence 2012; Kerner 2014). Capital intensity then should be related to losses caused by expropriation and inconvertibility.

The *resource dependence* of a country should likewise increase firm losses from expropriation and inconvertibility. Even once the effect of capital intensity is accounted for, resource dependence may increase losses, as resource-related production is prone to populist appeals (Albornoz, Galiani, and Heymann 2012). Resource-dependent governments may also be less sensitive to reputation costs,

as they have resource wealth to fall back on (Jensen and Johnston 2011), and they may fail to make strong property rights commitments (Ross 1999, 2012).

Economic crises have ambiguous effects on the likelihood that firms will experience losses. On the one hand, policy makers who face an economic crisis could place restrictions on convertibility to prevent capital flight. Crises can also reduce government receipts, and foreign investors can be attractive targets for revenue generation (Wellhausen 2015a). On the other hand, Abiad and Mody (2005) find that crises are often connected to liberalization, and Jensen et al. (2012) argue that economic crises can make leaders more responsive to reputation concerns, which would make them less likely to expropriate.

Capital account openness should decrease firm losses. Inconvertibility claims document an investor's inability to move capital abroad. Because measures of capital account openness report the absence of restrictions on convertibility (Quinn 1997; Chinn and Ito 2008), inconvertibility claims are less likely when capital accounts are open. Capital account openness could also reduce firm losses indirectly. Because capital account openness facilitates capital flight, the costs of expropriation are higher when markets are open (Strange 1996; Garrett 1998; Pond 2018). Capital account openness should reduce claims due to expropriation and inconvertibility.

The above hypotheses highlight one of the major benefits of our firm data: they allow us to test theories that relate to both national- and firm-level factors, and we can disaggregate effects depending on claim type.

Model Specification

To check if the above expectations are consistent with the OPIC data, we estimate several variations on this regression model:

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\begin{split} \Phi(\text{Claim}_{\textit{icy}}) &= \beta_1 \text{Political constraints}_{\textit{cy}} + \beta_2 \text{Coalition turnover}_{\textit{cy}} \\ &+ \beta_3 \text{Capital-intensive}_i + \beta_4 \text{KA openness}_{\textit{cy}} \\ &+ \beta_6 \text{Economic crisis}_{\textit{cy}} + \beta_7 \text{Conflict intensity}_{\textit{cy}} \\ &+ \beta_8 \text{Distance to US}_c + \beta_9 \text{ln GDP}_{\textit{cy}} \\ &+ \beta_{10} \text{Resource rent}_{\textit{cy}} + \beta_{11} \text{Contract duration} + \alpha + \epsilon_i, \end{split}
```

where *i* is an investor index, *c* a country index, and *y* a year index. Claim_{icy} is the number of insurance claims that firm *i* files under OPIC insurance for adverse events in country *c* during year *y*. Political constraints is an index which measures the "feasibility of policy change by the host-country government" (Henisz 2002). Coalition turnover is a binary variable which is 0 when there is no change in the leader's support coalition, and 1 otherwise (Mattes, Leeds, and Matsumura 2016). Our measure of capital account (KA) openness is from Karcher and Steinberg (2013). Economic crisis is a binary variable which equals 1 during years of crisis (Reinhart and Rogoff 2009). Conflict intensity is the highest level of armed conflict intensity over the last five years (Themnér and Wallensteen 2011). Distance is the population-weighted distance between the host country and

the United States (Mayer and Zignago 2006). Gross domestic product (GDP) is from the World Bank (2017). Resource rent is total natural resource rents as a percent of GDP (World Bank 2017). Finally, contract duration is the number of years elapsed since the insurance contract was issued, α is an intercept, and ε is a disturbance term.

Since firm losses are relatively rare events, we use multiple imputation with the Amelia software (m=10) to preserve all observations. The baseline results that we present below were obtained using negative binomial regression because some firms file multiple claims, which means that the dependent variable can be treated as count data. In the Online Appendix, we present several alternative specifications using logit and cox proportional hazard models. We also present results from models that substitute the Political Constraints Index for measures of polyarchy or liberal democracy (V-Dem), judicial independence (Linzer and Staton 2015), political checks (Beck et al. 2001), and constraints on the executive (Polity IV).

Regression Results

Table 1 presents the results of this exercise. Column 1 shows results for all three types of claims combined. The remaining columns disaggregate the results by claim type. Column 2 reports results for expropriation claims, column 3 for inconvertibility, and column 4 for violence.

As expected, some risk sources are shared. Claims are less common in countries with constrained governments: The political constraints coefficients are negative and statistically significant across all the models. Changes to leadership increase the incidence of claims: coalition turnover is positively associated with the likelihood that firms file claims of all types. GDP reduces the likelihood of claims. ¹⁸ Claims of all types are more common in countries experiencing violent conflict. The coefficient associated with capital intensity is of the expected sign but statistically insignificant.

Other risk sources are confined to specific claim types. Resource rents are positively associated with expropriation claims. Economic crisis is associated with inconvertibility claims but not with expropriation claims. These results seem inconsistent with Abiad and Mody (2005) and Jensen et al. (2012), who emphasize the liberalizing and constraining potential of economic crisis, and with Wellhausen (2015b), who discusses the revenue benefits of expropriation. The results are broadly consistent with the use of capital controls to prevent capital flight during crisis.

As expected, we see fewer insurance claims related to inconvertibility or expropriation in countries with high levels of capital account openness. The negative association with inconvertibility is unsurprising, given that many of the legal instruments that count as capital controls are designed explicitly to restrict convertibility. The negative correlation with expropriation claims could reflect the idea that capital account openness increases the costs that host countries pay to expropriate, by facilitating capital flight and firm exit.

Table 1. Negative Binomial Regression Models with Multiple Imputation.

Variable	All	Expropriation	Inconvertibility	Violence
Political constraints	−3.27****	-2.15**	−3.58** *	-4.45***
	(0.82)	(1.03)	(1.25)	(0.81)
Coalition turnover	`2.25 [*] **	2.84 [*] **	`I.36 [´]	`3.29 [*] ***
	(0.91)	(1.36)	(1.15)	(0.83)
Capital-intensive	0.33	0.20	0.31	0.41
	(0.29)	(0.26)	(0.35)	(0.55)
Resource rent	0.18	0.49**	0.05	0.18
	(0.13)	(0.21)	(0.19)	(0.20)
Gross domestic product	-0.34***	-0.02	-0.47***	-0.44***
	(80.0)	(0.13)	(0.10)	(0.17)
Conflict	1.21***	1.21***	0.86**	2.08***
	(0.24)	(0.46)	(0.40)	(0.43)
KA openness	-0.62***	−0.49 **	-1.13***	-0.10
	(0.11)	(0.23)	(0.24)	(0.13)
Economic crisis	0.67	0.11	1.35**	-0.20
	(0.44)	(0.60)	(0.55)	(0.64)
Distance	-0.07 *	-0.01	-0.04	−0.1 7 **
	(0.04)	(0.05)	(0.06)	(80.0)
Contract duration	-0.12***	-0.12***	-0.12***	-0.12***
	(0.02)	(0.03)	(0.02)	(0.04)
Constant	2.92	-7.54**	4.66*	4.78
	(1.92)	(3.43)	(2.39)	(3.75)
Observations	82,536	82,536	82,536	82,536

Note: Clustered standard errors in parentheses.

In short, the results described above are consistent with many of the core intuitions developed in prior works on political risk. They also suggest that even if some factors make all types of claims more likely, other factors are associated with only some claim types. Researchers should take seriously the distinction between risk types when deciding on the appropriate empirical strategy to test their theories.

Conclusion

In this article, we introduce rich new firm-level data that measure multiple types of firm losses. Unlike most data on political risk, we document a complete population of potential risk events with a collection of over 5,000 PRI contracts and 1,500 finance projects from 1961 to 2017. We also include information on every claim filed against those insurance contracts, and we augment the data by manually identifying capital-intensive firms.

^{*}p < .10.

^{**}b < .05.

^{.010. &}gt; d***

The data set, which we make available freely online, allows researchers to circumvent typical concerns about selection bias, because the data include information on the full universe of "at-risk" assets, including all the cases where claims were filed, but also all cases where no claims were filed. Because it includes data on over 6,500 projects, our data set also offers rich possibilities for future research on the determinants of government support for outgoing investment by a major government agency.

Many studies draw on aggregate FDI flows or PRI ratings to indirectly measure political risk. The OPIC data set offers an unprecedented opportunity to directly test old and new explanations of political risk and firm losses over a substantial time period. The data allowed us to distinguish between risk factors at the national level, such as resource dependence and political institutions, and risk factors at the firm level, such as vulnerability due to capital intensity. ¹⁹ The data could also be used to study the incidence of violence and inconvertibility, as newly identified categories of firm loss (Graham, Johnston, and Kingsley 2016, 2018); to assess the determinants of government support for investment outflows (Luong and Sierra 2015), as OPIC projects are targeted at specific firms; to identify the importance of subnational actors in causing firm losses²⁰; or to investigate how the threats to firm profits have changed over time.

The data set also provides a definitive historical archive to learn about the activities of OPIC, the first public provider of PRI. Indeed, OPIC's future is likely to differ systematically from its past, given the recent passage of the Better Utilization of Investments Leading to Development (BUILD) Act, which consolidates OPIC into a new entity, the US International Development Finance Corporation (https://www.reuters.com/article/us-usa-congress-development/congress-eying-chinavotes-to-overhaul-development-finance-idUSKCN1MD2HJ). The new agency will have a larger budget and will be able to take equity stakes in projects, something that was previously forbidden to OPIC.

Authors' Note

The data set described in this article can be downloaded from the authors' webpages: http://arelbundock.com http://people.tamu.edu/ \sim apond/ and http://www.utdallas.edu/ \sim clint.pein hardt/.

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Supplemental Material

Supplemental material is available for this article online.

Notes

- 1. Recent work has questioned the importance of political institutions (Arel-Bundock 2017).
- 2. Li, Owen, and Mitchell (2018) recently performed a meta-analysis to identify common trends and biases in the regression results of democracy on foreign direct investment (FDI) from over 200 estimates drawn from thirty-nine published empirical studies.
- 3. For a discussion of private insurance providers, see Jensen (2012, 14).
- For a historical overview of Overseas Private Investment Corporation (OPIC), see Peinhardt and Allee (2016).
- 5. One difficulty arises because the annual claims report lists settlements under the fiscal year when they were issued. However, because there can be processing delays, the fiscal year of settlement does not typically correspond to the year during which the actual event took place. We found the year of event on a case-by-case basis using the claims determinations documents published in Kantor, Nolan, and Sauvant (2011). We were only able to find detailed accounts of the events in question for about half of the claims. For the rest, we lag the fiscal year by one and use this lag as the event year. One is the modal and median number of years between events and the fiscal year in the subset of claims for which we found detailed accounts.
- 6. A primary resource was Kantor, Nolan, and Sauvant (2011), but in many cases companies changed names or went through mergers and acquisitions between the issuance of a contract and the filing of a claim. We thus had to conduct several web searches and we visited many company websites to track down those changes.
- 7. In some versions of an unpublished working paper, Jensen et al. (2012) consider a subset of twenty-three expropriation claims. We extend this sample considerably. The main practical difficulty that we encountered in building our data set is that a very large share of the claims settled by OPIC were filed against contracts issued when OPIC activities were under the purview of USAID or the Export–Import Bank. We filed separate Freedom of Information Act requests with those organizations and obtained several lists of contracts in pdf format. These lists revealed the existence of over 2,000 previously unobservable contracts, for a total of more than 5,000. Extending the data set in this way allowed us to match a far greater number of claims to the investor and year when contracts were issued. Instead of only twenty-three expropriation events, our data set thus includes sixty expropriations, ninety-eight inconvertibility claims, and forty-eight claims related to political violence.
- 8. Firms that are worried about a particular kind of risk can tailor their insurance coverage accordingly. OPIC categories have evolved over time; terrorism insurance, for example, was added in 2003.
- 9. It is important to note that typical catalogs of expropriations suffer from a similar problem, since they do not distinguish between events for which investors were compensated and events for which no compensation was received (Hajzler 2012).

- 10. The predicted values of logistic regression models estimated using claims as a dependent variable could potentially be interpreted as a measure of political risk.
- 11. Those agreements must also delegate arbitration to ICSID.
- 12. Another distinction is that political risk insurance (PRI) requires firms to have the foresight to insure themselves prior to experiencing loss, whereas ISDS can be accessed after a loss occurs, regardless of the firm's risk management strategy.
- 13. The deterrence imposed by the need to compensate or fear of retaliation is often called "regulatory chill," and bias induced by it would also be present for ISDS claims (Pelc 2017; Betz and Pond 2019).
- 14. The importance of PRI fluctuates considerably from year to year, but the ratio of PRI coverage to FDI has been estimated in the 10 to 20 percent range World Bank (2011).
- 15. Matching these firms to databases of publicly listed firms, like COMPUSTAT or in the US Orbis, would exclude privately listed firms. In Europe, for example, Orbis has broader private-firm coverage. Recent work has demonstrated that use of only publicly listed firms biases empirical evidence (Dinlersoz et al. 2018).
- 16. We use Henisz's revised polcon3 index.
- 17. We take the three-year moving average of this dummy variable to account for the fact that changes in support coalitions can have effects in the periods immediately before (because of anticipations) and after the actual transition. This is also a useful way to transform the independent variable, because it lets us account for the fact that our data on the timing of OPIC claims are somewhat imprecise (see note 5).
- 18. Coalition turnover lacks significance in the regression on inconvertibility, and gross domestic product lacks significance in the expropriation regression.
- 19. Firm-level data analysis is a promising avenue for future research (see also Weymouth 2012; Jensen 2013), which allows for the development and assessment of more finegrained theories.
- For example, the Sandinista revolt in Nicaragua in July 1979 resulted in multiple OPIC awards.

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