# Transnational Legal Spillover? A Reappraisal of the OECD Anti-Bribery Convention\*

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#### Abstract

Can prosecutions by US authorities help spread enforcement of anti-foreign bribery laws to other countries? In this article, we explore this question by re-examining an earlier study that found that US prosecutions of foreign defendants under the Foreign Corrupt Practices Act increases the likelihood that the defendant's home state will enforces its own anti-foreign bribery laws. Using a conditional frailty Cox model that allows us to model anti-foreign bribery enforcement actions as repeat-events, we find that the relationship reported in earlier scholarship does not hold. Instead, our research indicates that the exposure of states to risks of foreign bribery is an important and overlooked predictor of the likelihood of enforcement. Still, while our findings indicate a more limited role of US enforcement actions in this particular instance, we nonetheless see many promising avenues for future research on transnational law enforcement relating to bribery in international business and in other areas.

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## **1** Introduction

Criminal law has historically been quintessentially territorial and used by states to govern activity within their borders. But in a globalized world, criminal activity and law enforcement are increasingly transnational. Perhaps nowhere is this more apparent than foreign bribery. The crime of foreign bribery is itself transnational—prohibiting the payment of bribes to public officials of other countries. The investigation and prosecution of foreign bribery crimes also frequently cross borders, drawing on evidence and witnesses from multiple countries. Further, it is not only a business's home state—the country where it is incorporated—that investigates and prosecutes foreign bribery. Most notably, the United States has regularly deployed its anti-foreign bribery law, the Foreign Corrupt Practices Act ("FCPA"), to punish foreign corporations for their bribery of government officials in other countries.

The transnational dimension of foreign bribery, and in particular US enforcement of the FCPA against foreign defendants is the focus of this paper. The US was the first country in the world to prohibit foreign bribery with the adoption of the FCPA in 1977 and advocated for the spread of anti-foreign bribery laws to other countries through international instruments like the Organization for Economic and Cooperation and Development's ("OECD") 1997 Convention on Combatting the Bribery of Foreign Public Officials in International Business Transactions ("Anti-Bribery Convention" or "ABC"). Much of the world now criminally prohibits foreign bribery, but the enforcement of these prohibitions has been a persistent challenge. Apart from the US, and a handful of other states, many countries have failed to enforce these laws at all or have been slow to do so. Prosecutions of foreign defendants by the US could potentially change this, propelling other states to enforce their own anti-foreign bribery laws. Given the US's role in pioneering anti-foreign bribery laws, the expansive jurisdiction of the FCPA, and the long-standing attraction of US financial markets to corporations across the globe, the is US uniquely situated to potentially export not only foreign bribery law, but also their enforcement.

Existing research provides support for the argument that US FCPA enforcement can propel foreign bribery enforcement in other states. In a 2011 article, Sarah Kaczmarek and Abraham Newman advanced what they termed the "spillover hypothesis."<sup>1</sup> Specifically, the authors find that an FCPA prosecution against a foreign defendant is associated with an increased likelihood that the defendant's home country will enforce its own laws against foreign bribery.<sup>2</sup> In this paper, we re-examine this finding using new, official data on enforcement of anti-foreign bribery laws. Here we similarly ask: do US FCPA prosecutions of foreign defendants make enforcement of anti-foreign bribery laws more likely in the defendant's home country?

Our results provide much more limited support for the spillover hypothesis and reach a more cautious conclusion about the role of US prosecutions in other states' anti-foreign bribery enforcement. Instead, we argue that the best predictor of a country's likelihood of enforcing its anti-foreign bribery laws is the country's risk of foreign bribery.

We reach this conclusion in three steps. First, we replicate Kaczmarek and Newman's research using updated data on FCPA and anti-foreign bribery enforcement through the end of 2018. With ten additional years of anti-foreign bribery enforcement and more consistent data, drawn from OECD sources, we are able to replicate their main finding that US FCPA enforcement is positively associated with a country's first use of its anti-foreign bribery laws. However, using our improved data we find that the magnitude of the effect of FCPA prosecution on another state's enforcement falls by roughly 80-85% from that estimated by Kaczmarek and Newman.

Next, we reconsider and alter an important modeling decision from earlier research. Earlier research modeled enforcement of anti-foreign bribery laws by other OECD countries as a non-repeatable event, focusing only on the first time that a country enforces it anti-foreign bribery laws. However, we see drawbacks to this approach in truncating the available data and overlooking the importance of continued enforcement of anti-foreign bribery laws. In-

<sup>1.</sup> Kaczmarek and Newman 2011.

<sup>2.747,764.</sup> 

stead, we take a repeat-event approach that allows us to examine the impact of an FCPA prosecution on a country's subsequent enforcement of its anti-foreign bribery laws—that is, looking beyond the first time a country enforces these laws to the second, third, fourth, etc. foreign bribery enforcement actions. By modeling anti-foreign bribery enforcement actions in this way, we find that the impact of FCPA enforcement further diminishes and is no longer statistically distinguishable from zero. Our estimates indicate that while FCPA enforcement may increase the odds of short-term or one-off enforcement, it has little lasting power.

Finally, we turn to consider an important and overlooked variable in the enforcement of a country's anti-foreign bribery laws: the country's risks of encountering corruption in international business. In short, we argue that enforcement of anti-foreign bribery laws is driven by the supply of cases, which is likely influenced by the degree to which the country's international business profile exposes it to corruption. We construct a variable of corruption exposure that measures countries' levels of exports to countries with high levels of corruption and include it in our preferred model. Once we account for corruption exposure, we find that FCPA enforcement against a foreign defendant is no longer a significant predictor of first or subsequent enforcement by the defendant's home state. Instead, we find that increasing exposure of a country's businesses to corruption increase the odds of its anti-foreign bribery enforcement.

The paper proceeds as follows. The next section introduces the FCPA and international efforts to combat bribery in international business, including long-standing challenges in enforcing anti-foreign bribery law across the OECD. Here we introduce the spillover hypothesis in more detail. We then explain why we think a revaluation of the spillover hypothesis is warranted. The paper then turns to our research design and analysis, first setting out our replication of Kaczmarek and Newman's findings with updated data. We move on to our preferred model to examine the impact of FCPA prosecutions of foreign defendants on anti-foreign bribery enforcement in home states, modelling anti-foreign bribery enforcement actions as repeat-events and accounting for corruption exposure.

This research makes several important contributions. To start, it argues for caution regarding the commonly held belief in the spillover hypothesis as it pertains to transnational law enforcement, particularly in the area of anti-foreign bribery.<sup>3</sup> We do not argue this is the end of the matter, however. Indeed, because our conclusions differ from prior empirical work on this question, we see many promising avenues for future research. For example, future research is needed to explore the relevant mechanisms and more fully conceptualize transnational law enforcement and its potential impact. Further, the paper contributes to research in this area by better aligning our modeling choices with relevant theory related to anti-foreign bribery enforcement and improving data transparency and reproducibility. Finally, the paper also has important policy implications. As our findings indicate that antiforeign bribery enforcement is predicted by a country's exposure to corruption and risks of foreign bribery, it calls for greater nuance in how we assess the significance of enforcement. Low or even no anti-foreign bribery enforcement in countries with little exposure to corruption in international business is much less concerning than a similar enforcement pattern in a country with high exposure to corruption.

# 2 Existing Research: A Chronic Enforcement Problem and The Spillover Hypothesis

Foreign bribery laws are common today in many countries.<sup>4</sup> The US was the first country to prohibit foreign bribery with the adoption of the FCPA in 1977. For other countries, their national anti-foreign bribery laws stem from commitments under international law, like the OECD Anti-Bribery Convention.<sup>5</sup> The US championed the creation of the Anti-Bribery

<sup>3.</sup> E.g., Spahn 2012; Hock 2019; Verdier 2020.

<sup>4.</sup> Brewster and Dryden 2018, 239; Kennedy and Danielsen 2011, 5

<sup>5.</sup> In addition to the OECD Anti-Bribery Convention, there are other regional conventions that target foreign bribery, such as the Organization for American States' 1997 Inter-American Convention Against Corruption, as well as the 2003 United Nation Convention Against Corruption.

Convention, which was signed in 1997 by the then 29-OECD member states, along with 5 other non-OECD states, and went into force in 1999.<sup>6</sup> The core obligation of the Anti-Bribery Convention is found in Article 1, which requires state parties to enact national criminal prohibitions against the payment of bribes to foreign public officials to obtain a business advantage.<sup>7</sup> As a treaty that binds the wealthy OECD countries that are the source of much of the world's foreign direct investment and exports, many see real promise in the Anti-Bribery Convention to "turn off the spigot" of bribery in international business.<sup>8</sup>

But while anti-foreign bribery laws are common today, the presence of these law has not consistently translated into enforcement. In fact, several scholars have noted a widespread lack of enforcement of theses shared prohibitions against bribery in international business.<sup>9</sup> Brewster and Dryden summed up this assessment in a 2018 article on the OECD Anti-Bribery Convention: as they write, "under-enforcement has become the state of affairs."<sup>10</sup> Or as the the OECD's Secretary General described it in 2016, there is a "significant enforcement gap" in anti-foreign bribery enforcement across Anti-Bribery Convention states.<sup>11</sup>

Data collected by the OECD on anti-foreign bribery enforcement illustrates this general "under-enforcement" or "gap" in the national enforcement of anti-foreign bribery laws; further, this data also shows inconsistent enforcement across the OECD, with some countries, notably the US, regularly completing dozens of enforcement actions in a single year while others complete handfuls or none.<sup>12</sup> Particularly in the early years of the Anti-Bribery Convention's operation, anti-foreign bribery enforcement outside of the US was infrequent. By

<sup>6.</sup> Abbott and Snidal 2002; Wouters, Ryngaert and Cloots 2013.

<sup>7.</sup> Article 1 of the Anti-Bribery Convention provides that: "Each Party shall take such measures as may be necessary to establish that it is a criminal offence under its law for any person intentionally to offer, promise or give undue pecuniary or other advantage...to a foreign public official...in order that the official act or refrain from acting in relation to the performance of official duties...to obtain or retain business or other improper advantage in the conduct of international business."

<sup>8.</sup> Pieth and Labelle 2012.

<sup>9.</sup> See e.g., Tarullo 2004; Gilbert and Sharman 2014; Brewster and Dryden 2018.

<sup>10.</sup> Brewster and Dryden 2018, 239.

<sup>11.</sup> Organization for Economic Cooperation and Development. Anti-Bribery Ministerial Meeting: Towards a New Era of Enforcement, Statement by Angel Gurria, Secretary General, 2016.

<sup>12.</sup> See e.g., Working Group on Bribery 2020.

2009, a decade into the Convention's operation, only 10 of the 33 original signatory states to the Convention other the US had completed a single enforcement action for a foreign bribery crime.<sup>13</sup> Even now, more than two-decades into the Convention's operation, 8 of the original signatories to the Anti-Bribery Convention have yet to complete an enforcement action, while many other states have persistently low frequencies of foreign bribery enforcement.<sup>14</sup>

In some ways, lackluster enforcement of anti-foreign bribery laws is not all that surprising. Prosecutions of complex economic crimes often perpetrated by sophisticated actors are challenging for law enforcement generally, and for foreign bribery—a crime that by definition has a cross-border component—investigating and prosecuting these cases can be costly in time and resources. What's more, states may not see an immediate short-term interest in bringing these cases, and instead face incentives that point in the other direction. While states undertook to criminalize foreign bribery by signing on to the OECD Convention, as Rachel Brewster explains, states nonetheless still face short-term economic incentives that encourage them not to prosecute national businesses. She writes that even with the OECD Convention in place "each state has an incentive to defect if other states are enforcing a ban on corruption" to allow its cross-border corporations to win competitive and lucrative foreign business opportunities.<sup>15</sup>

It's with this context in mind that scholars have turned to the question of what might propel states to take the step from the adoption of anti-foreign bribery laws to their enforcement.<sup>16</sup> One explanation that has emerged is that US prosecutions of foreign defendants can propel enforcement in the defendant's home country—the "spillover hypothesis." In a 2011 article, Kaczmarek and Newman find empirical support for this hypothesis, arguing that an FCPA prosecution of a foreign defendant makes it more likely that the defendant's

<sup>13.</sup> Canada, Germany, Hungary, Italy, Japan, South Korea, Norway, Sweden, Switzerland, the United Kingdom, and the United States had all completed at least one anti-foreign bribery enforcement action by the end of 2008, see Working Group on Bribery 2010

<sup>14.</sup> The Czech Republic, Greece, Iceland, Ireland, Mexico, New Zealand, Portugal, and Slovakia have yet to complete a foreign bribery enforcement action. See Working Group on Bribery 2020.

<sup>15.</sup> Brewster 2014, 96.

<sup>16.</sup> On the varied ways OECD countries have implemented their obligations under the Convention see Acorn 2018.

home state will enforce its laws against foreign bribery in the future. US prosecutions of foreign defendants are possible thanks to the expansive jurisdictional reach provided for in the FCPA, which allows US prosecutors to bring cases not only against US citizens and corporations, but also many foreign corporations.<sup>17</sup>

In introducing the spillover hypothesis, Kaczmarek and Newman point to two motivating examples: Germany and the United Kingdom. As they point out, both these countries took on obligations to criminalize foreign bribery as original state parties to the OECD Anti-Bribery Convention; but, both of these countries only began enforcing their anti-foreign bribery laws after US authorities began foreign bribery cases against a British firm (British Aerospace) and a German firm (Daimler AG).<sup>18</sup>

Kaczmarek and Newman test the spillover hypothesis quantitatively on data they compiled from 1998–2008 of FCPA enforcement actions against foreign defendants and enforcement of anti-foreign bribery laws by the original OECD state signatories to the Anti-Bribery Convention.<sup>19</sup> Using a discrete event history analysis, Kaczmarek and Newman report that US prosecutions of foreign defendants have "a positive and statistically significant association with a country's likelihood of enforcing their own national [foreign bribery] laws."<sup>20</sup> They estimate that an FCPA prosecution against a foreign defendant will increase the odds of the defendant's home country enforcing its anti-foreign bribery laws by over twenty times. The authors argue that what's happening is that US prosecutions of foreign defendants "unsettle weak enforcement equilibrium" in the home state by increasing the costs and uncertainty of maintaining a weak enforcement regime.<sup>21</sup> Specifically, the authors point to three mechanisms through which FCPA prosecutions of a foreign corporation

<sup>17.</sup> The FCPA prohibits foreign bribery by "issuers"—corporations with shares listed on an American exchange—which catches many foreign corporations within the FCPA. Further, a foreign corporation can also be prosecuted for violations of the FCPA if it "engage[s] in any act in furtherance of a corrupt payment...while in the territory of the United States." 15 U.S.C. §78dd-1 and 3(a).

<sup>18.</sup> Kaczmarek and Newman 2011, 753-56.

<sup>19. 757.</sup> 

<sup>20.760.</sup> 

<sup>21.750.</sup> 

could destabilize an equilibrium that enabled non-enforcement in the home country.<sup>22</sup> First, these US prosecutions could alert firms in that country to the risk of punishment. Second, they could help generate institutional support and resources for national enforcement efforts. And third, by drawing attention to foreign bribery and the lack of enforcement in that country, such US prosecutions could even generate support for opposition parties and impact electoral outcomes. A key implication of this theory is that enforcement will increase after the low-enforcement equilibrium is broken. However, the authors only examine the time to *initial* enforcement. We improve on this test below by examining the effect of FCPA prosecutions on subsequent enforcement patterns as well.

While Kaczmarek and Newman's 2011 article remains the only empirical examination of the spillover hypothesis in the context of transnational law enforcement of which we are aware, the logic of the argument remains prominent in recent scholarship. Elizabeth Spahn, for instance, has argued that the US prosecutes foreign defendants for violations of the FCPA "to strengthen, or pressure...jurisdictions perceived as lagging, unable, or unwilling to prosecute their own national champions."<sup>23</sup> A recent book by Pierre-Hugues Verdier describes the influence of US FCPA enforcement as follows: "by enforcing its laws against foreign firms, the United States was able to overcome a first-mover disadvantage and prompt a shift toward stronger anticorruption enforcement worldwide."<sup>24</sup> Branislav Hock also argues in his 2019 book that arguing that FCPA enforcement can "incentivize non-US jurisdictions to step forward with their own anti-bribery enforcement."<sup>25</sup> And yet, despite the dramatic increases in US enforcement against foreign firms over the last two decades,<sup>26</sup> many OECD countries remain stuck within a low-enforcement equilibrium.<sup>27</sup> In the next section, we discuss additional reasons to re-examine the spillover hypothesis given this context.

<sup>22.</sup> Kaczmarek and Newman 2011, 750.

<sup>23.</sup> Spahn 2012, 42.

<sup>24.</sup> Verdier 2020, 36.

<sup>25.</sup> Hock 2019, 4, 8.

<sup>26.</sup> Christensen, Maffett and Rauter 2020.

<sup>27.</sup> Brewster and Dryden 2018.

## 3 Why Re-Examine? The Potential Limits of Spillover

More than twenty years after the creation of OECD Anti-Bribery Convention and ten years after Kaczmarek and Newman's article was published, we see several important reasons to revisit the spillover hypothesis. To start, with another decade passed of the operation of the Anti-Bribery Convention, there is now more and better data on anti-foreign bribery enforcement in the US and across the Convention state parties. Notably, the OECD has been collecting and reporting data on anti-foreign bribery enforcement since 2008. The organization has also continued its country review process, which provides detailed descriptions of each county's implementation of the Convention, including enforcement.

In addition, revisiting the spillover hypothesis provides us with an opportunity to reconsider what drives national anti-foreign bribery enforcement generally and how we can best assess the role of US FCPA prosecutions in propelling enforcement in other states. Here we see two theoretical reasons to re-examine the spillover hypothesis, and which lead us to modify how we test the spillover hypothesis from earlier research.

First, there is good reason to suspect some underlying common factor attracting both US and home-country prosecutors. Specifically, the same factors that make an FCPA enforcement action against a foreign corporation of a particular state more likely are also the same factors that make anti-foreign bribery enforcement by a state more likely. To begin to address this, we consider a variable overlooked in earlier research: the risks of a country's businesses to corruption. As noted above both Germany and the UK completed their first anti-foreign bribery enforcement actions following US prosecutions of German and British defendants for foreign bribery related crimes, in 2005 and 2008, respectively. However, Germany and the UK are also both leading OECD economies, with significant integration into the global economy that likely brings exposure to corruption, instances of foreign bribery, and opportunities for enforcement by German and British authorities. All of which is to say, the UK and Germany may well have been both likely to attract attention of US prosecutors and to enforce their anti-foreign bribery laws because of their relatively high exposure to corruption globally.

Second, revisiting the spillover hypothesis allows us to examine anti-foreign bribery enforcement by OECD states as a repeat event. Earlier research examined the impact of a US FCPA prosecution of a foreign defendant only on initial enforcement. However, given that the spillover hypothesis contemplates that a US FCPA prosecution serves to destabilize a weak enforcement equilibrium in the defendant's home country, an empirical implication is that enforcement in the home country should also be more likely for subsequent enforcement actions. That is, once a weak enforcement equilibrium is unsettled by a US prosecution, we should expect the home country to keep enforcing its anti-foreign bribery laws. With the addition of more than a decade of data, we can now test this empirical implication of the spillover model.

Even more, there are practical policy reasons to explore the impact of a US FCPA prosecution of a foreign defendant beyond initial enforcement in the defendant's home state. As discussed above, more than 20 years into the operations of the OECD Anti-Bribery Convention, enforcement of anti-foreign bribery laws remains challenging. The Anti-Bribery Convention direct state to punish foreign bribery "by effective, proportionate and dissuasive criminal penalties" (Article 3(1)). Doing so requires consistent enforcement, not just onetime enforcement. And finally, revisiting this earlier research provides an opportunity to reconsider some of the other methodological choices made in previous research, which we turn to discuss next.

### 4 Data & Methods

We test our argument using a conditional frailty Cox model.<sup>28</sup> This approach enables us to model anti-bribery enforcement actions as repeat-events, in addition to allowing the rate of enforcement to vary as countries enforce their anti-foreign bribery laws more. Our sample

<sup>28.</sup> Box-Steffensmeier and De Boef 2006; Box-Steffensmeier, De Boef and Joyce 2007.

runs from 1999 (the first year the Anti-Bribery Convention entered into force) to 2018<sup>29</sup> and includes the 29 OECD member-states that are original signatories of the ABC. Countries enter the sample either the year in which they become subject to the Convention or the year their implementing legislation enters into force, whichever is earlier.<sup>30</sup> We next discuss our data before elaborating on our modeling decisions.

#### 4.1 OECD Home Country Enforcement

We compile anti-foreign bribery enforcement data from both OECD peer-review monitoring reports<sup>31</sup> as well as yearly statistical reports that are collected and published by the OECD's Working Group on Bribery in International Business Transactions.<sup>32</sup> As part of the peer-review process, representatives from Working Group member-states conduct on-site visits and interview relevant investigators and policymakers.<sup>33</sup> The Working Group also requests information on a variety of topics related to a country's implementation of its obligations under the Convention. These reviews are thus not only a thorough representation of cross-national implementation of the OECD Anti-Bribery Convention, but also carry real costs for the countries under review.<sup>34</sup> Because we rely exclusively on official data that has been either reported to the OECD by member states themselves or collected by members of the Working Group during the peer-review process, portions of our data differ (sometimes considerably so) from those used in prior work, which relied on unofficial reports compiled by Transparency International.

Following OECD practice, we include in our home country enforcement data any crimi-

<sup>29.</sup> We will update this to recently available 2019 data.

<sup>30.</sup> For example, the Czech Republic enters the dataset in 1999 because that is the year its implementing legislation entered into effect, even though its obligations under the Convention did not enter into effect until March 2000. These dates are obtained from the OECD at https://www.oecd.org/daf/anti-bribery/ WGBRatificationStatus.pdf.

<sup>31.</sup> These reports can be found online at https://www.oecd.org/daf/anti-bribery/ countryreportsontheimplementationoftheoecdanti-briberyconvention.htm

<sup>32.</sup> The Working Group's enforcement data can be found at https://www.oecd.org/daf/anti-bribery/ data-on-enforcement-of-the-anti-bribery-convention.htm. Archived versions of these reports are also on file with the authors and available upon request.

<sup>33.</sup> For an overview of the monitoring process see Bonucci et al. 2013.

<sup>34.</sup> Jensen and Malesky 2018.

nal action for foreign bribery that has reached a final disposition. This includes all charges for foreign bribery that were resolved through a negotiated resolution, plea bargain, or trial, even if the enforcement action led to an acquittal or is being appealed. Such a broad definition is appropriate for our purposes because we are interested in assessing the ability and willingness of local enforcement authorities to enforce. An acquittal, while in some sense a "failed" action, nevertheless demonstrates the ability of the local enforcement agency to identify, investigate and prosecute. Statutes of limitations point to another consideration. Italy, for example, has an onerous statutes of limitations. Many of the early anti-bribery cases in that country were thwarted by these laws.<sup>35</sup> Excluding these cases would give the impression that Italian prosecutors were inactive, when in fact they were (compared to their OECD peers) quite active. We therefore consider an active enforcement agency to be one that is capable of regularly bringing cases to completion, regardless of the outcome of any given case. We assign a 1 for every year in which a given country brings a criminal case related to its foreign bribery laws to a final disposition and a 0 otherwise.

We code this variable in "enforcement-years" (i.e. a country-year is coded as 1 for a given year if the country concludes 1 or more cases that year) rather than yearly case counts because our goal is to measure patterns of enforcement over time. Case counts can be highly misleading. If we were to look only at the number of anti-bribery actions brought to completion, Hungary would come across as a highly active enforcer with over two dozen actions. All of these actions, however, came out of a single investigation, the Magyar Telekom case. For comparison, Finland has only enforced a handful of cases (some of which led to acquittals) but nevertheless initiates enforcement actions on a near yearly basis. We therefore code Hungary as a 1 for the first year in which the series of enforcement actions stemming from that investigation concluded (i.e. 2008) and a 0 thereafter, while Finland receives a 1 for each year during which it completed a new enforcement action (2009, 2011, 2013, 2014, 2015, 2016). Because the goal of the Anti-Bribery Convention is to promote regular en-

<sup>35.</sup> Working Group on Bribery 2011.



Figure 1: Distribution of Illicit Payments Subject to FCPA Enforcement Actions, 1995–2018

**Note:** Graph plots the distribution of FCPA enforcement actions by the country in which the illicit payment occurred. Darker shading indicates more enforcement actions. Data are derived from the Foreign Corrupt Practices Act Clearinghouse run by Stanford Law School and Sullivan & Cromwell LLP (https://fcpa.stanford.edu).

forcement over time, we believe that Finland's enforcement record is more in line with the consistent enforcement anticipated by the Convention. We therefore constructed a coding rule that best reflects that substantive determination. A complete break down of our coding decisions and sources can be found in Appendix B.

#### 4.2 Measuring Exposure to Corruption

As we argue above, the relationship between FCPA extraterritorial prosecution and OECD home enforcement is likely to be subject to omitted variable bias as whatever factors increase the odds of an FCPA enforcement action are also very likely to increase the odds of home enforcement. We argue that the main driver of ABC enforcement is the supply of cases: how at-risk each country's firms are to committing bribery. Scholars have found that the location of illicit payments subject to FCPA enforcement actions tend to cluster in countries with relatively high levels of corruption.<sup>36</sup> To demonstrate this we plot the cumulative number of illicit payments subject to FCPA enforcement actions per country from 1995-2018 (see Figure 1). Existing scholarship supports out contention that doing business in corrupt countries increases the risk of firms engaging in foreign bribery. For example, one study has found that firms operating in corrupt regimes experienced losses in firm value after the introduction of anti-foreign bribery laws in the UK.<sup>37</sup> Another study found that firms subject to the FCPA tended to increase internal control resources while acquiring firms in corrupt regimes after the dramatic expansion of FCPA enforcement in the mid-2000s.<sup>38</sup>

To capture this underlying risk, we define our measure of *Corruption Exposure* as the log of the yearly value of a country's exports to countries with heightened risks of corruption. We assess the level of corruption in importing countries using the Corruption Index reported in the PRS Group's International Country Risk Guide (ICRG).<sup>39</sup> Any country with a yearly average at or below the Corruption Index's midpoint (3) is included in the set of high-risk countries for that year. We then sum the value of exports from each OECD country to all countries in this set every year. Export data is taken from the IMF Direction of Trade Statistics.<sup>40</sup>

#### 4.3 Extraterritorial FCPA Enforcement

We obtained data on extraterritorial FCPA enforcement actions from the Foreign Corrupt Practices Act Clearinghouse run by Stanford Law School and Sullivan & Cromwell LLP. We focus on prosecutions against firms incorporated outside of the United States; this means that we include foreign subsidiaries of US parents only when the subsidiary itself is a named defendant. We estimate the model using both the earliest known start date of the investigation and the date the enforcement action was resolved. To identify an investigation date,

<sup>36.</sup> Choi and Davis 2014; Lippitt 2013.

<sup>37.</sup> Zeume 2017.

<sup>38.</sup> Christensen, Maffett and Rauter 2020.

<sup>39.</sup> These data are not publicly available but can be purchased from the PRS Group at https://www.prsgroup.com/explore-our-products/international-country-risk-guide/

<sup>40.</sup> A plot of each country's yearly exports to risky countries is included in Appendix C

we searched SEC disclosures to identify the first date on which the defendant first publicly disclosed that they were subject to an FCPA investigation.

#### 4.4 Additional Variables

We also control for a variety potential confounders. Countries that are more integrated into global markets may face greater demand for anti-bribery enforcement. We therefore include measures of outward stock of foreign direct investment as a percentage of GDP from the the United Nations Conference on Trade and Development's UNCTADstat service as well as trade dependence (imports + exports / GDP), obtained from the World Bank's World Development Indicators. Per capita GDP and inflation (consumer price index) are also taken from the World Bank World Development Indicators. Following Kaczmarek and Newman, we also include measures of *Protestantism* (percent of the population that is Protestant), *Common Law*,<sup>41</sup> and a dummy indicating whether a country has transitioned from a command economy.

To account for the potential of mounting peer-pressure through the OECD to increase enforcement against foreign bribery we include dummy variables representing when countries have undergone Phase 2 and Phase 3 country review reports.<sup>42</sup> The Phase 2 reports evaluated the adequacy of each country's implementing legislation. Phase 3 reports focused more on enforcement. Each country report includes an enumerated list of recommendations to which countries are required to respond. Another source of enforcement pressure may come from increased enforcement by peer countries. We therefore include a term indicating the percentage of OECD states that have enforced their foreign bribery laws at least one time.

<sup>41.</sup> Protestantism and Common Law are taken from La Porta et al. 1999.

<sup>42.</sup> Jensen and Malesky 2018.

#### 4.5 Home Enforcement as a Repeat-event

Prior research has modeled home enforcement of the ABC as a non-repeatable event.<sup>43</sup> This modelling decision has at least two drawbacks. First, it is inefficient. Because Kaczmarek and Newman only estimate initial enforcement, they discard information on enforcement patterns that occur after the first enforcement action (our approach increases the number of observations in the analysis by over 40%). Such a decision is defensible under the assumption that time to initial enforcement is representative of subsequent enforcement patterns. Truncating the dataset, however, prevents us from determining whether whatever factors are associated with increased initial enforcement persist beyond that first enforcement action. We present evidence below that this assumption may be unwarranted. Second, the Convention was meant to promote consistent and regular enforcement from member states. Countries differ in their propensity to enforce even within the subset of countries that enforce at all. For example, the single-state approach treats Germany (which enforces essentially every single year) as similar to Hungary (which has only enforced a single case) simply because their initial enforcement actions were close together in time (2005 and 2008, respectively). Incorporating subsequent enforcement data allows us to discriminate between persistent enforcers (like Germany) and one-off enforcers (like Hungary).

The repeat-event approach provides three advantages over prior work. First, it allows us to model enforcement of the Anti-Bribery Convention as a *recurring* process, as opposed to a single, one-off event. Second, we can adjust for changes in the baseline hazard conditional on enforcement experience.<sup>44</sup> This is necessary because it may be the case that enforcement becomes more likely as states enforce more due to the development of greater institutional expertise, funding, etc. To capture this process, we allow the baseline hazard to shift by stratifying the model on prior enforcement levels. Third, we can evaluate empirically Kaczmarek and Newman's implicit assumption that the first enforcement action is

<sup>43.</sup> Kaczmarek and Newman 2011.

<sup>44.</sup> Box-Steffensmeier and De Boef 2006; Box-Steffensmeier, De Boef and Joyce 2007.

representative of later enforcement actions. We do this by interacting the FCPA variable with a dummy variable indicating whether the country has previously been subject to an FCPA enforcement action. This allows us to estimate the effect of FCPA enforcement on home enforcement conditional on varying levels of prior enforcement. If the first action is representative of later actions, then these coefficients should be of similar magnitudes. In sum, this modelling approach thus both allows us to incorporate a larger data set while also granting us the flexibility to identify how the effect of FCPA enforcement might change (or not) over time.

Another important decision in event history models is how to incorporate time. Because our aim is to estimate the regularity of enforcement, we estimate the time-to-enforcement for each enforcement-year, with the clock resetting upon each enforcement-year. This is commonly referred to as a gap-time approach. That is, we are estimating the time it takes to enforce since either a) entry into the data set or b) a country's previous enforcement action. That is, a country does not enter the "at risk" group for the *kth* enforcement action until it has completed action k - 1.

Finally, there may be some unobserved, time-invariant country-level factors that make some countries more prone to enforce than others. To help reduce bias induced by withincountry correlation, we include a country-level random effects (or "frailty") term that we estimate using the EM algorithm. In summary, we estimate a stratified Cox model with country-level frailties, or a "conditional frailty" model<sup>45</sup> of the following form:

$$\lambda_{ik}(t) = \lambda_{0k}(t - t_{k-1})e^{\text{FCPA}\beta_1 + \text{Corr. Exp.}\beta_2 + \mathbf{X}\beta_p + \omega_i}$$
(1)

 $\lambda_{0k}$  represents the baseline hazard that varies by enforcement action k using a gap time structure, i.e.  $(t - t_{k-1})$ . **X** is a vector of time-varying independent variables and  $\beta_p$  is a vector of coefficients;  $\omega_i$  represents the country-level frailty term.

<sup>45.</sup> Box-Steffensmeier and De Boef 2006; Box-Steffensmeier, De Boef and Joyce 2007.

### **5** Analysis

Column 1 from Table 1 reports the results from our reanalysis of Kaczmarek and Newman using our updated and corrected data. As a reminder, in this baseline model we follow their approach by modelling enforcement of anti-foreign bribery laws as a single, non-recurring event (i.e. countries drop out of the data set after their first home enforcement) rather than a recurring process. Under this assumption, we successfully replicate their main finding: US FCPA enforcement is positively associated with a country's *first* home enforcement action. Our model's estimated effect size, however, is highly attenuated by comparison. Kaczmarek and Newman report an increase in the probability of home enforcement after a defendant from a particular country has been subject to a FCPA enforcement action by a factor of over twenty.<sup>46</sup> We instead estimate a more modest 4.5 times (=  $e^{1.51}$ ) increase over the base rate in the odds of initial home enforcement conditional on FCPA enforcement.

We next test the assumption that the *first* enforcement action is representative of a country's long-term commitment to enforcement. To do that, we estimate our gap-time model and stratify the model on whether a country has enforced the Convention or not. This allows for the baseline hazard rate to vary between countries that have not enforced before and those that have. By interacting the FCPA indicator with the stratum indicator, we also estimate the effect of FCPA enforcement conditional on whether a country has previously enforced. Column 2 presents the results. We estimate that the change in the probability of initial home-country enforcement (after it has experienced FCPA enforcement) decreases further to about 2.92 times (=  $e^{1.07}$ ) or roughly 14% the magnitude of K&N's estimate. The coefficient on FCPA<sub>k≥1</sub> (i.e. the subset of countries that have already enforced anti-foreign bribery laws), however, falls in magnitude and is no longer statistically distinguishable from zero. These estimates indicate that while FCPA enforcement may increase the odds of short-term or one-off enforcement, it has little lasting power.

Next, we estimate our preferred model that accounts for each country's exposure to cor-46.  $e^{3.05} = 21.12$ . See Model 1 in Table 1, Kaczmarek and Newman 2011, 761.

Event type:	Single		Rej	peat	
	(1)	(2)	(3)	(4)	(5)
FCPA	1.51**			0.23	0.33
	(0.60)			(0.34)	(0.33)
$FCPA_{k=0}$		$1.07^{**}$	0.46		
		(0.51)	(0.54)		
$FCPA_{k\geq 1}$		0.59	0.22		
		(0.37)	(0.38)		
Corruption Exposure			0.55***	$0.58^{***}$	$0.56^{**}$
1 1			(0.14)	(0.16)	(0.14)
Total Trade/GDP	-0.01	-0.00	-0.00	-0.00	-0.00
	(0.01)	(0.00)	(0.00)	(0.01)	(0.00)
FDI Stock/GDP	0.00	0.00	0.00	0.00	0.00
	(0.01)	(0.00)	(0.00)	(0.00)	(0.00)
OECD Emulation	$-0.28^{**}$	0.00	0.01	0.01	0.01
	(0.13)	(0.02)	(0.02)	(0.02)	(0.02)
Peer Review <sub>Phase 2</sub>	1.15	1.06	0.80	0.72	$1.50^{*}$
- 11050 -	(1.14)	(0.87)	(0.88)	(0.92)	(0.77)
Peer Review <sub>Phase 3</sub>	-0.61	0.06	-0.08	-0.16	-0.09
1 110,50 0	(1.39)	(0.42)	(0.43)	(0.46)	(0.43)
ln GDP per cap.	$2.04^{**}$	0.05	0.36	0.40	0.38
	(0.94)	(0.46)	(0.50)	(0.52)	(0.50)
CPI	0.07	-0.01	0.04	0.06	0.02
	(0.06)	(0.07)	(0.06)	(0.05)	(0.06)
% Protestant	-0.01	-0.00	0.01	0.01	$0.01^{*}$
	(0.01)	(0.00)	(0.01)	(0.01)	(0.01)
Common Law	$-1.74^{**}$	0.14	0.45	0.53	0.49
	(0.88)	(0.32)	(0.33)	(0.35)	(0.32)
Transition	1.10	-1.24	-0.77	-0.74	-0.72
	(1.49)	(1.15)	(1.17)	(1.18)	(1.16)
Strata	None	$\{0, \ge 1\}$	$\{0, \ge 1\}$	k	None
Enforcement years	18	87	87	87	87
Countries	29	29	29	29	29
Observations	397	560	560	560	560
Log Likelihood	-44.59	-305.78	-298.53	-161.65	-311.34

\*\*\* p < 0.01; \*\* p < 0.05; \*p < 0.1

Table 1: Main Results

ruption. Adjusting for these factors causes the estimated coefficients on FCPA enforcement to become statistically and substantively insignificant. The estimated magnitudes of the FCPA coefficients fall to 0.46 (k = 0) and 0.22 ( $k \ge 1$ ), though these estimates are indistinguishable from zero. We see, however, that the coefficient on *Corruption Exposure* is highly significant and substantively important. A log point increase in corruption exposure is estimated to increase the odds of enforcement by nearly  $1.7x (= e^{0.55})$ .<sup>47</sup>

Because we find no statistical difference between the FCPA estimates across strata in Model 3, we re-estimate the model without the interaction term in the remaining models. In Model 4, we stratify by every enforcement action (i.e. rather than a strata for k = 0 or  $k \ge 1$ , we include strata for all k). The results are largely unchanged for the Corruption Exposure variable. Model 5 presents the results for an unstratified model. Again, the substantive results remain unaffected. The decreased model fitness of Model 5 relative to the stratified models suggests that the baseline hazard does vary across levels of enforcement history. In sum, our findings suggest that FCPA prosecution have minimal lasting impact on other OECD country's level of anti-foreign bribery enforcement.

#### 6 Conclusion & Next Steps

In this paper, we examined one area of transnational law enforcement: international antiforeign bribery law. In contrast to earlier research that found that US FCPA prosecutions of foreign defendants can propel the defendant's home state to enforce its anti-foreign bribery laws, we find limited support for such a "spillover" of US enforcement. Rather, we find support for a simple explanation for anti-foreign bribery enforcement: a country's exposure to corruption in the global economy and supply of foreign bribery cases.

While our research here suggests a more cautious conclusion about the role of US prosecutions in other states' anti-foreign bribery enforcement, we nonetheless see many promis-

<sup>47.</sup> This estimate is consistent across countries that have and have not experienced FCPA enforcement actions. See Table D2 in the Appendix.

ing avenues for future research on transnational law enforcement relating to bribery in international business and more generally. In particular, we see promise in a closer investigation of the relevant mechanisms and exploration of the potentially varied roles played by transnational law enforcement.

The mechanisms proposed by previous research were reflective of an assumption that US prosecutions of foreigners would destabilize low enforcement equilibria abroad. However, as our research has identified a much more limited role for US FCPA prosecutions on foreign bribery enforcement in other countries, future research should consider potentially subtler mechanisms at play in transnational law enforcement. For instance, scholarship may consider whether FCPA enforcement against foreigner fosters deeper cooperative ties with home-country investigators and prosecutors that facilitate institutional learning and information sharing.

In addition, future research may be well-served by a broader conceptualization of the ways in which transnational law enforcement may influence law and law enforcement in other states. US FCPA enforcement actions against foreign defendants may indeed sometimes produce a diffusion of enforcement. But such "spillover" can come in different forms. It can include countries "piggy-backing" on US enforcement with their own one-off enforcement actions or sustained efforts to consistently enforce home country anti-foreign bribery laws. In other cases, US enforcement actions against foreigners may have little or no impact on home country law enforcement, for instance, if local authorities resist US pressure or if they simply allow US enforcement to substitute for local enforcement. Further, a US FCPA enforcement action against a foreign corporation could potentially have an even greater impact on anti-foreign bribery enforcement in the home country by propelling active cooperation between home country law enforcement and US authorities. Recently, several US anti-foreign bribery enforcement actions have taken the form of global settlements where US prosecutors cooperate with prosecutors in a corporation's home country to simultaneously enforce anti-foreign bribery laws. It is worth greater attention to examine if and how US prosecutions of foreign corporations from the states that are now frequent participants with US authorities in these global settlements have ushered along the active cooperation that we see today. In a future version of this paper we plan to examine these and other dynamics through brief case studies of countries selected by how well their actual outcomes fit the predicted outcomes of our model.<sup>48</sup>

Finally, with this disaggregation of transnational law enforcement, future research may also seek to examine the conditions under which expansive prosecutions like we see in FCPA actions against foreign defendants produce particular outcomes. Future research could examine some of the same factors explored here, like OECD reviews and FCPA enforcement actions, but in greater depth and in connection to particular outcomes. For example, a notably critical review of a country's enforcement record from the OECD or repeated FCPA enforcement actions against corporations from a particular state could be more likely to trigger the kind of sustained spread of enforcement that the spillover hypothesis anticipated.

<sup>48.</sup> See Appendix E

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# Appendix

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# A Summary Statistics and Data Sources

Variable	Mean	SD	Min	Max	Source
Home Enforcement	0.16	0.36	0.00	1.00	OECD
FCPA	0.35	0.48	0.00	1.00	Foreign Corrupt Practices Act Clearinghouse
log Corruption Exposure	24.22	1.47	19.21	27.11	IMF Direction of Trade Statistics and ICRG
Bur. Quality	88.86	14.58	50.00	100.00	ICRG
Trade Openness	91.42	56.89	18.35	408.36	World Bank, World Development Indicators
FDI Stock / GDP	46.61	59.82	0.16	415.15	UNCTAD
Emulation	31.38	21.89	0.00	67.86	OECD
Peer Review 2	0.67	0.47	0.00	1.00	OECD
Peer Review 3	0.32	0.47	0.00	1.00	OECD
log GDP per capita	10.42	0.62	8.95	11.63	World Bank, World Development Indicators
CPI	2.87	5.12	-4.48	64.87	World Bank, World Development Indicators
Protestant	26.30	33.16	0.00	97.80	La Porta et al. 1999
Common Law	0.17	0.38	0.00	1.00	La Porta et al. 1999
Transition Economy	0.11	0.31	0.00	1.00	CIA World Factbook

# **B OECD** Home Enforcement Data

Home enforcement data was collected from various OECD sources including official enforcement data collected by the OECD's Working Group on Bribery (WGB) as well as individual country reports. In the table below, we provide citations for each year during which a country enforced the Anti-Bribery Convention (i.e. brought an enforcement action to a judicial determination).

Country	Year	Source
Australia	2017	Phase 4 follow up, p. 34
	2018	Phase 4 follow up, p. 33
Belgium	2013	"EU cereals subsidies," Phase 3, p. 10
	2016	WGB Data, 2017
	2017	WGB Data, 2018
Brazil	2017	WGB Data, 2018
Bulgaria	2004	Phase 3, p. 7
Canada	2005	Phase 3, p.9
	2011	WGB Data, 2012
	2013	WGB Data, 2014
	2014	WGB Data, 2015
	2017	WGB Data, 2018
Chile	2016	Phase 4, p. 81
	2018	WGB Data, 2019
Finland	2009	"Wärstilä," Phase 4, p. 50
	2011	"Patria (Slovenia)." Phase 4, p. 49
	2013	"Instrumentarium," Phase 4, p. 48
	2013	"Patria," Phase 4, p. 49
	2014	WGB Data, 2015
	2015	WGB Data, 2016
	2016	WGB Data, 2017
France	2008	"Congolese sports," Phase 3, p. 85
	2009	"Leading group," Phase 3, p. 85
	2009	"Petrolem," Phase 3, p. 86
	2010	"Equipments import," Phase 3, p. 86
	2011	"Hydraulic drilling," Phase 3, p. 86
	2011	"Leading group," Phase. p. 85
	2013	WGB Data, 2014
	2015	WGB Data, 2016
	2017	WGB Data, 2018
	2018	WGB Data, 2019
Germany	2005	
	2006	

Continued on next page

Country	Year	Source
	2007	
	2008	
	2009	WGB Data, 2010
	2010	WGB Data, 2011
	2011	WGB Data, 2012
	2012	WGB Data, 2013
	2013	WGB Data, 2014
	2014	WGB Data, 2015
	2015	WGB Data, 2016
	2016	WGB Data, 2017
	2017	WGB Data, 2018
	2018	WGB Data, 2019
Hungary	2008	"Magyar Telekom," Phase 4, p. 9
Italy	2008	"Oil for Food," Phase 3, p. 64
	2008	"Oil company," Phase 3, p. 72
	2009	"Libyan Arms Traffickers," Phase 3, p. 66
	2010	"Pirelli," Phase 3, p. 68
	2011	"COGIM," Phase 3, p. 71
	2011	"Oil company," Phase 3, p. 72
	2014	WGB Data, 2015
	2015	WGB Data, 2016
	2017	WGB Data, 2017
	2018	WGB Data, 2018
Japan	2007	Phase 4, p. 10
	2009	Phase 4, p. 10
	2013	Phase 4, p. 10
	2014	Phase 4, p. 10
	2018	Phase 4, p. 11
Korea, Rep. of	2011	"BUSAN SHIPPING," Phase 4, p. 82
	2012	"China Eastern," Phase 4, p. 85
	2012	"Filipino Casion," Phase 4, p. 85
	2016	"CCTV," Phase 4, p. 81
	2018	"HANWHA," Phase 4, p. 81
	2018	"FELDA," Phase 4, p. 82
Luxembourg	2013	WGB Data, 2014
Netherlands	2012	"Ballast Nedam," Phase 4, p. 11
	2014	"SBM Offshore," Phase 4, p.11
	2016	"Vimpelcom," Phase 4, p. 11
	2017	"Teliasonera," Phase 4, p. 12
Norway	2004	"Statoil," Phase 3, p. 8
	2007	"Research Company," Phase 3, p. 9

Continued on next page

Table B1: List of OECD Home Enforcement Years

Country	Year	Source
	2011	"Norconsult," Phase 4, p. 10
	2014	"Cabu Chartering," Phase 4, p. 11
	2014	"Yara International," Phase 4
Spain	2017	WGB Data, 2018
Sweden	2004	"World Bank Case," Phase 3, p. 55
	2013	Phase 3 (2014, follow up)
	2015	WGB Data, 2016
	2016	WGB Data, 2017
Switzerland	2001	Phase 2, p. 56
	2010	Phase 3, p. 55
	2011	"Alstom Network," Phase 3, p. 56
	2014	WGB Data, 2015
	2016	WGB Data, 2017
	2018	WGB Data, 2019
Turkey	2011	"Military Supply Case," Phase 3, p. 11 + WGB Data, 2012
United Kingdom	2008	Phase 3, p. 73
	2009	Phase 3, p. 73
	2010	WGB Data, 2011
	2012	WGB Data, 2013
	2013	WGB Data, 2014
	2014	WGB Data, 2015
	2015	WGB Data, 2016
	2016	WGB Data, 2017
	2017	WGB Data, 2018
	2018	WGB Data, 2019

Table B1: List of OECD Home Enforcement Years

# C Additional Information on *Corruption Exposure* Measure

The *Corruption Exposure* variable is defined as the sum of the total value of exports (on a free on board basis) from a given country to all countries with an ICRG Corruption score below the midpoint (i.e. a value of 3 or below) for a given year. To provide some substance to this cutoff point, Table C1 lists all of the counties included in the corruption exposure group for 2014. Exports to any of these countries in the year 2014 is included in that year's *Corruption Exposure* measure and exports to all other countries are excluded. Export data are taken from the International Monetary Fund's Direction of Trade Statistics. The resulting measure for each country is plotted in Figure C1.

Country	Corruption	Country	Corruption	Country	Corruption
Albania	2.17	Guinea-Bissau	1.46	Nigeria	1.50
Algeria	2.00	Guyana	1.50	Oman	2.54
Angola	1.46	Haiti	1.00	Pakistan	2.00
Argentina	2.00	Honduras	1.62	Panama	2.00
Armenia	1.54	Hungary	3.00	Papua New G.	2.00
Azerbaijan	1.50	India	2.50	Paraguay	1.62
Bahrain	3.00	Indonesia	3.00	Peru	2.00
Bangladesh	3.00	Iran	1.50	Philippines	2.50
Belarus	1.54	Iraq	1.00	Romania	2.04
Bolivia	2.00	Italy	2.50	Russia	1.50
Brazil	2.46	Jamaica	2.00	Saudi Arabia	2.54
Brunei	2.50	Jordan	2.54	Senegal	2.50
Bulgaria	2.04	Kazakhstan	1.50	Serbia	2.00
Burkina Faso	2.04	Kenya	1.50	Sierra Leone	2.00
Cameroon	2.00	Korea, DPR	1.00	Slovakia	2.54
China	2.00	Korea, Rep. of	3.00	Somalia	1.00
Colombia	2.50	Kuwait	2.54	South Africa	2.50
Congo	1.50	Latvia	2.54	Sri Lanka	2.50
Congo, DR	1.50	Lebanon	1.50	Sudan	0.50
Costa Rica	2.54	Liberia	2.50	Suriname	2.00
Croatia	2.08	Libya	1.00	Syria	1.46
Cuba	2.50	Lithuania	2.58	Taiwan	3.00
Czech Rep.	2.54	Madagascar	2.00	Tanzania	2.00
Côte d'Ivoire	1.58	Malawi	2.00	Thailand	2.00
Domin. Rep.	1.71	Malaysia	2.50	Togo	1.54
Ecuador	2.46	Mali	1.54	Trin. & Tobago	2.00
$\operatorname{Egypt}$	2.00	Mexico	1.92	Tunisia	2.50
El Salvador	2.04	Moldova	2.00	Turkey	2.04
Ethiopia	2.00	Mongolia	2.00	Uganda	1.50
Gabon	2.00	Morocco	2.04	Ukraine	1.50
Gambia	2.00	Mozambique	2.00	Venezuela	1.00
Ghana	2.54	Myanmar	1.50	Vietnam	2.50
Greece	2.04	Namibia	3.00	Yemen	1.46
Guatemala	2.00	Nicaragua	1.50	Zambia	2.50
Guinea	1.50	Niger	1.50	Zimbabwe	1.00

Table C1: List of Countries with ICRG Corruption Scores at or below 3 in 2014



Figure C1: Corrupt Trade Exposure

 $\infty$ 

# **D** Alternative Specifications

# D.1 Main Specification with Four Strata

	(1)
$FCPA_{k=0}$	0.11
	(0.58)
$FCPA_{k=1}$	0.88
	(0.73)
$FCPA_{k=2}$	-0.35
	(0.74)
$FCPA_{k=3}$	-1.03
	(0.87)
$FCPA_{k\geq 4}$	-0.22
	(0.70)
Corruption Exposure	$0.77^{***}$
	(0.20)
	•••
Strata	$\{0, 1, 2, 3, \ge 4\}$
Controls	Yes
$\mathbb{R}^2$	0.06
Enforcement-Years	87
Observations	560
Countries	29
Log Likelihood	-225.45

\*\*\* p < 0.01; \*\* p < 0.05; \* p < 0.1

Table D1: Four Strata

# **D.2** Corruption Exposure, Strata Interaction

	(1)
FCPA	0.21
	(0.36)
Corruption $\text{Exposure}_{k=0}$	$0.73^{***}$
	(0.26)
Corruption $\text{Exposure}_{k \ge 1}$	$0.67^{***}$
	(0.22)
	•••
Strata	$\{0, \ge 1\}$
Controls	Yes
$\mathbb{R}^2$	0.06
Enforcement-Years	87
Observations	560
Countries	29

\*\*\* p < 0.01; \*\* p < 0.05; \*p < 0.1

Table D2: Interacting Corruption Exposure and Strata

#### **D.3** Complete FCPA Investigations

In the table below, we recode the year for our FCPA extraterritorial enforcement action variable using the year in which the action was completed. This may be a stronger test of the K&N theory as a completed enforcement action will likely engender greater political energies within the target state than the mere announcement of an investigation.

	(1)	(2)	(3)
$FCPA_{k=0}$	$1.54^{**}$	$0.94^{*}$	0.25
	(0.66)	(0.53)	(0.31)
$FCPA_{k\geq 1}$		0.51	
		(0.36)	
<b>Corruption Exposure</b>			$0.56^{***}$
			(0.14)
			•••
	•••	•••	
Strata	None	$\{0, \ge 1\}$	$\{0, \ge 1\}$
Controls	Yes	Yes	Yes
$\mathbb{R}^2$	0.04	0.04	0.06
<b>Enforcement-Years</b>	18	87	87
Observations	397	560	560
Countries	29	29	29

 $^{***}p < 0.01; \, ^{**}p < 0.05; \, ^{*}p < 0.1$ 

Table D3: FCPA by Year of Completion

# **E** Predicted Enforcement Rates

This table allows for comparison of the predicted yearly rate of enforcement against the observed rate.

Country	Observed	Predicted	Difference
Finland	0.29	0.14	0.15
United Kingdom	0.48	0.33	0.15
France	0.40	0.35	0.05
Belgium	0.14	0.10	0.05
Italy	0.40	0.36	0.04
Sweden	0.19	0.15	0.04
Luxembourg	0.05	0.03	0.03
Hungary	0.05	0.03	0.02
Canada	0.24	0.24	0.00
Iceland	0.00	0.00	-0.00
Mexico	0.00	0.01	-0.01
Slovak Republic	0.00	0.01	-0.01
Portugal	0.00	0.01	-0.01
Greece	0.00	0.01	-0.01
Spain	0.05	0.06	-0.01
Poland	0.00	0.01	-0.01
Turkey	0.05	0.07	-0.02
Czech Republic	0.00	0.02	-0.02
Switzerland	0.30	0.33	-0.03
Austria	0.00	0.03	-0.03
Germany	0.67	0.70	-0.03
New Zealand	0.00	0.03	-0.03
Ireland	0.00	0.04	-0.04
Japan	0.24	0.28	-0.04
Norway	0.19	0.25	-0.06
Denmark	0.00	0.09	-0.09
South Korea	0.19	0.28	-0.09
Netherlands	0.21	0.31	-0.10
Australia	0.10	0.21	-0.12

Table E1: Observed and Predicted Yearly Enforcement Rates