

CONTINGENT INSTITUTIONS: THE REPUTATIONAL IMPACT OF INVESTOR-STATE DISPUTES

Abstract. To what extent do alleged violations of international commitments damage state reputation? This paper explores this question with specific reference to investor-state disputes arising under the protection of international investment agreements. Existing theory assumes that institutionalization of international commitments raises the ex post costs of defection, including reputational damage, thereby creating strong incentives for state compliance. We modify this expectation by arguing that the reputational consequences of treaty violations are contingent on institutional rules and information. Drawing on a reanalysis of the link between investor-state disputes with reduced FDI as well as an original analysis of their impact on investment reputation, we show that the impact of investor-state disputes is conditioned by dispute visibility, cumulative dispute involvement over time, and the relative transparency of dispute settlement processes. The central implication of these findings for the broader body of literature on international institutions is that reputational mechanisms for effective treaty enforcement cannot be taken as given but instead need to be addressed on the basis of a more nuanced approach addressing the pivotal issues of institutional design and information.

Word Count: 7,984

INTRODUCTION

Research on the compliance of states with international commitments emphasizes the deterrent effect of reputational damage. The underlying assumption is that reneging on a formal commitment damages a state's reputation and jeopardizes future opportunities for international cooperation. Agreements that institutionalize state commitments are consequently expected to constrain state actors from engaging in uncooperative behavior as well as to induce other sets of actors to monitor and punish defections. The idea has gained particular traction in the study of international economic instruments, including debt contracts, investment treaties, and free trade agreements,¹ but it has also been applied to a broader range of international issues.²

Somewhat surprisingly, however, the argument linking reputational concerns to compliance with formal agreements remains largely unexamined. Reputational damage has been inferred from evidence of shifting patterns of foreign lending or investment flows.³ Reputational indicators have also been utilized to explain state entry into formal international agreements as well as defection from them.⁴ But prior research has not systematically explored the consequences of reneging on commitments for state reputation. This paper fills this gap by exploring the reputational impact of investor-state disputes arising under the protection of bilateral investment treaties (BITs) and other international investment agreements (IIAs).

Investment treaties, which are designed to attract foreign direct investment (FDI) by offering credible property rights protection to private sector actors, have become an increasingly important part of the international legal architecture. As of the end of 2014, the overwhelming majority of world states had ratified one or more of these agreements, with the total

¹See, for example, Simmons (2000); Tomz (2007); Bütte and Milner (2014); Bütte and Milner (2008); Allee and Peinhardt (2011); Elkins, Guzman and Simmons (2006).

²See, for example, Fearon (1997) and Simmons and Danner (2010).

³See Tomz (2007) and Allee and Peinhardt (2011).

⁴For recent explanations of treaty formation see Elkins, Guzman and Simmons (2006) and Simmons and Danner (2010), and for defection Allee and Peinhardt (2011), Freeman (2013), and Poulsen and Aisbett (2013).

IIA universe exceeding 2,500, including 2,276 BITS and 280 other agreements with investment provisions.⁵ In most cases these IIAs not only formalize commitments to treat foreign investors fairly and equitably, but also include provisions giving investors the right to take investor-state disputes to international arbitration, out of range of the host country's legal system. According to a recent survey, 93 percent of BITS include such provisions, which are intended to guarantee investors that their claims will be adjudicated in an independent, impartial, and timely manner.⁶ Over the past two decades these provisions have led to a significant proliferation of investor-state dispute settlement (ISDS) cases.

Drawing on the combined records of the United Nations Conference on Trade and Development (UNCTAD 2015) and the International Centre for the Settlement of Investment Dispute (ICSID 2015) a total of 610 treaty-based arbitral claims involving 104 countries were registered at international tribunals between 1987, when the first recorded investor-state dispute was referred for international arbitration, and 2014. As arbitration often proceeds confidentially, the completeness of these records cannot be fully verified on the basis of other sources. What is known, however, is that the predominant player in international investor-state disputes is the International Centre for the Settlement of International Disputes (ICSID), which is formally affiliated with the World Bank. The ICSID maintains public records of all of the international investor-state conflicts brought to it for resolution, the number of which totaled 497 as of December 31, 2014, 72% of which were initiated under a BIT or other treaty.⁷ Drawing on these records, we develop a database to analyze how alleged treaty violations affect the reputation of states with the international investment community.

In contrast to the theoretical claims developed in prior research, we argue that the reputational consequences of treaty violations are contingent on institutional design and associated information costs. Central characteristics of the ISDS process, particularly, its narrow, decentralized, uncertain, and untransparent monitoring and enforcement mechanisms have limited its effectiveness by failing to provide international investors with the information they require

⁵UNCTAD (2015)

⁶Gaukrodger and Gordon (2012): 8

⁷ICSID (2015): 7,10

to update their perceptions of investment risk in a particular country. Interestingly, however, this situation has begun to change in response to increased institutional transparency and growing media coverage; but in accordance with the logic of North's seminal work on institutions, creating an effective system of investment treaty monitoring and enforcement has been a long, slow process.⁸ Thus whereas prior research has simply assumed that investor claims of treaty violations entail significant costs, our analysis offers a more nuanced and qualified account of the role played by reputational mechanisms in the enforcement of international commitments.

THE INVESTOR-STATE DISPUTE SETTLEMENT PROCESS

As indicated above, the single most important player in the international investor-state dispute settlement process is the ICSID, which was established as an autonomous international institution under a multilateral treaty drawn up by the executive directors of the World Bank in 1965. As of late 2014, a total of 159 states had ratified the ICSID Convention, not counting Bolivia, Ecuador, and Venezuela, which withdrew from membership between 2007 and 2012.⁹ Prior to December 31, 2015, other notable non-members included Brazil, India, Iran, Iraq, Poland, and South Africa. Several of these nations, however, have agreed to arbitration under the ICSID's Affiliated Facility (AF), which provides for dispute arbitration and conciliation if one of the parties is a citizen of a member state.

The central purpose of the ICSID is to facilitate international flows of private investment by removing non-commercial risks and providing investors with access to impartial and flexible dispute settlement procedures. Under Article 25 of the ICSID Convention, the jurisdiction of the center extends to any legal dispute arising directly out of an investment between a contracting state and a national of another contracting state, providing the parties to the dispute consent in writing to ICSID arbitration. Once the parties accede to ICSID jurisdiction, neither can unilaterally withdraw nor refuse to enforce the ICSID arbitral award. Under Article 43, arbitration can only be discontinued if the parties agree to a settlement or

⁸North (1990): 60

⁹ICSID (2014b)

dispute withdrawal, which has occurred in approximately 35 percent of all ICSID disputes.¹⁰ Parties to investment disputes do retain the right to appeal for an annulment of arbitral settlements but only within the very restricted framework established by ICSID rules. Annulment is also extremely unusual. Of the 180 awards rendered by ICSID as of the end of 2014, only 13 resulted in a partial or full award annulment.¹¹

For investment disputes involving sovereign states, the main alternative to arbitration under ICSID rules are ad hoc arbitration under the procedures established by the United Nations Commission on International Trade Law (UNCITRAL) or the rules of other venues for arbitral settlement, which include the International Chamber of Commerce, the International Centre for Dispute Resolution, the London Court of International Arbitration, the Permanent Court of Arbitration, the Cairo regional Centre for International Commercial Arbitration, and the Arbitration Institute of the Stockholm Chamber of Commerce. After arbitrating within the ICSID framework, the most common of these is UNCITRAL arbitration, which accounts for 27.9% of treaty-based disputes as compared to 57.2% for arbitration under ICSID rules. It may be noted that through its Additional Facility (AF), the ICSID also offers administrative support for arbitration under UNCITRAL, or other rules agreed upon by the parties to a dispute. Under the New York Convention of 1958, the alternative dispute resolution venues are relatively equivalent inasmuch as international arbitral awards are legally enforceable in all 156 of the states adhering to the convention (UNCITRAL, 1958). Compared to other venues, however, the ICSID is distinctive in four major respects. First, ICSID arbitration accounts for a higher percentage of treaty-based investment disputes than all other legal alternatives put together; a total of 57.2% as of the end of 2014 as compared to 27.9% for UNCITRAL. In addition, through its Additional Facility (AF), the ICSID also offers administrative support for arbitration under UNCITRAL or other rules agreed upon by the parties to a dispute. Second, the ICSID is distinctive in terms of its visibility as an institution formally affiliated with the World Bank with broad legal authority. Under the ICSID Convention, awards are binding on the parties to a dispute and enforceable as if they

¹⁰ICSID (2015): 17

¹¹Ibid: 17

were final awards of national courts, with the ICSID's narrowly delimited annulment rules establishing the only avenue of appeal. Third, unlike other international arbitration bodies, the ICSID maintains a public record of arbitral claims, making information about allegations of investment treaty violations available to the international community. Arbitration in alternative venues is unlikely to have similar consequences, especially if the parties to the dispute remain anonymous and the outcome confidential, which appears to be the case with a significant albeit unknown number of investment disputes. For this reason, investor-state dispute arbitration within the ICSID framework is often assumed to carry high reputational costs, creating incentives for states to capitulate to foreign investor demands.¹² We explore this claim below, drawing upon data from the ICSID.

THE POLITICAL ECONOMY OF STATE REPUTATION

Prior research in political economy has highlighted the importance of reputation for understanding the willingness of governments to comply with their international agreements. In Tomz's influential formulation, reputation establishes the basis for cooperation in a world of uncertainty, shifting preferences, and international anarchy.¹³ Governments honor their debts and private investors lend money to foreigners because of reputational concerns rather than other potential types of sanctioning mechanisms. Focusing on commitment and compliance in international monetary affairs, Simmons develops a similar line of argument: "The acceptance of treaty obligations raises expectations about behavior that, once made, are reputationally costly for governments to violate."¹⁴ Bütthe and Milner cite reputational effects to argue that international trade agreements provide mechanisms for making credible commitments to foreign investors: "Violating an institutionalized commitment – or not making amends to correct a violation that has occurred – damages a country's reputation for keeping commitments, making future cooperation on the same and other issues more difficult and maybe impossible to achieve."¹⁵ Bütthe and Milner and Elkins, Guzman and Simmons utilize

¹²Trakman (2013): 619

¹³Tomz (2007)

¹⁴Simmons (2000): 819

¹⁵Bütthe and Milner (2008): 746

the same logic to explain why bilateral investment treaties represent credible commitments to foreign investors.¹⁶

The existing literature thus suggests that by raising ex post reputational costs, formal international commitments create incentives for state compliance. The implication is that high levels of compliance with international agreements are indicative of high reputational costs, whereas low levels of compliance are likely to be observed where reputational costs are low. Arguments emphasizing the importance of reputation also run from compliance to government reputation as illustrated by Allee and Peinhart's analysis of the impact of investor-state disputes.¹⁷ Similarly, in his study of the interwar period, Tomz finds that "lemons" who signal a low regard for foreign commitments lost access to international credit markets.¹⁸ Thus not only are potential reputational costs assumed to cause compliance with international commitments; real reputational damage is the expected consequence of defection from those commitments. Logically the latter is the key causal issue. If compliance failures do not affect reputation, then reputational concerns are unlikely to yield much in the way of compliance.

Our central point of theoretical departure is the established literature on investment treaties, which creates the expectation that allegations of a government's failure to comply with its commitments generate reputational costs, regardless of the findings of arbitral tribunals. According to Schwenzer and Hachem, for example, "the reputation of a State may be damaged by wrongfully initiated investment treaty arbitration against the State. Such harm to reputation may have quite severe financial consequences for the entire economy of the State concerned."¹⁹ Likewise, in their research on the ICSID, Allee and Peinhardt claim that, "The filing of a case before ICSID immediately brands the respondent country as an actor that is hostile to investors"²⁰ and leads to "substantial losses in FDI."²¹ A recent analysis of investment arbitration, likewise argues that "when an investor commences an ICSID

¹⁶See Büthe and Milner (2009) and Elkins, Guzman and Simmons (2006).

¹⁷Allee and Peinhardt (2011)

¹⁸Tomz (2007): 86-94

¹⁹Schwenzer and Hachem (2011): 426

²⁰Allee and Peinhardt (2011): 414

²¹Ibid: 429

arbitration against a respondent state and the investor ultimately loses, the state may have a credible argument that its ‘investment reputation’ has been unfairly tarnished.”²² State actors share this view as evidenced by Turkey’s request in *Europe Cement & Trade S.A. v. Turkey* for “an award of monetary compensation for the moral damage it has suffered to its reputation and international standing through the bringing of a claim that is baseless and founded on fabricated documents.”²³

While these arguments sound plausible, they fail to take into account the importance of institutional variation. As emphasized both by the literature on international law²⁴ and institutional theory²⁵, effective reputational sanctioning is heavily dependent upon institutional design, particularly as it relates to issues of transparency and information. Three related characteristics of the prevailing international investment regime attenuate the impact of alleged investment treaty violations for state reputation. First, unlike the WTO, where governments press complaints before an independent international forum, the current ISDS process externalizes monitoring costs to individual private firms and sanctioning to ad hoc arbitral panels enjoying considerable independence from state actors. Arbitral deliberations are also constrained to the facts of an individual case and do not establish clear legal precedents for other investment disputes. For this reason investor-state dispute arbitration has not only produced inconsistent results,²⁶ but even opposing ones in parallel cases involving identical sets of facts and parties but different treaties and arbitral tribunals.²⁷ The outcome of dispute arbitration is therefore rather uncertain and the meaning and significance of arbitral awards, whether positive, negative, or inconclusive with respect to a government charged with treaty violations, limited to the specifics of a particular dispute. Given the narrow, decentralized, and unpredictable nature of the monitoring and sanctioning processes,

²²Parish, Newlson and Rosenberg (2011): 236

²³*Europe Cement Investment & Trade S.A. v. Republic of Turkey*. 2009. ICSID Case No. ARB(AF)/07/02: 177

²⁴Staton and Moore (2011); Cavallaro and Brewer (2008); Guzman (2008*b*); Guzman (2008*a*)

²⁵Knight (1992): 59; North (1990): 54-60

²⁶Franck (2005)

²⁷For example, see Franck (2005); Kim (2011); Egli (2006). For an example of a specific case compare the rulings issued in *CME Czech Republic B.V. v Czech Republic* and *Lauder v Czech Republic*: “Final Award in the Matter of an UNCITRAL Arbitration” 2001; “UNCITRAL Arbitration Proceedings *CME Czech Republic B.V. (The Netherlands) vs. The Czech Republic*: Final Award” 2003.

the assumption that alleged investment treaty violations generate significant reputational costs is questionable, particularly since reputations are presumably not only rather sticky but also constructed around multiple observations. A state's alleged failure to comply with a particular investment treaty in its dealing with a single private firm is therefore unlikely to entail significant reputational costs.

Compounding this limitation is a second characteristic of investment dispute settlement procedures: namely, information about an investment dispute may remain too limited to allow the investment community to gauge the extent to which treaty violations have occurred, especially for cases arbitrated confidentially. Even for claims involving the relatively public ICSID arbitration process, information regarding the specifics of a case may remain restricted if both parties do not consent to the publication of the award rendered by an arbitral tribunal.²⁸ To add to the lack of transparency, between 1987 and 2014, 40.4% of disputes were settled or discontinued before being formally arbitrated, preventing the facts of a dispute from being publicly disclosed. Such limitations on transparency come at the cost of effective reputational sanctions. In the succinct formulation of North, "By making available the relevant information, institutions make possible the policing of defections."²⁹

Reputational costs are further muted by the prolonged and inconclusive nature of dispute proceedings, which are open to further avenues of appeal, except within the ICSID framework, in which the only way to reverse a ruling is via the annulment process. But even annulments are not final, as plaintiffs can file for resubmission. Hence some cases, such as *Enron Creditors Recovery Corporation and Ponderosa Assets, L.P. v Argentine Republic*,³⁰ which was originally registered in 2001, "lost" or "decided" in 2007, annulled in 2010, resubmitted the same year, and still pending as of mid-2014, may convey uncertain and

²⁸Amendments to the ICSID's arbitration rules in 2006, however, mandate the Centre to publish excerpts of the legal reasoning applied by arbitration tribunals in reaching their decisions in specific cases (Antonietti, 2006). UNCITRAL has also adopted new rules on transparency effective 1 April 2014, but they only apply to treaties concluded prior to that date at the agreement of the disputing parties. For UNCITRAL disputes brought under treaties concluded at a subsequent date, exceptions to the new rules require the agreement of both disputing parties (UNCITRAL, 2013: 33-40).

²⁹North (1990): 57

³⁰ICSID Case No. ARB/01/3

less than timely information to the investment community, magnifying the effect of limited transparency.

The third limitation on reputational impact is the contested legitimacy of the current ISDS regime. Particularly controversial are the limitations it imposes on the power of the state to regulate in the public interest, which often bring treaty obligations into collision with other sets of international norms, including democratic decision-making, human rights, global health, and environmental protection, reducing the reputational impact of disputes. Regardless of their final resolution, for example, it is hard to imagine that disputes involving widely utilized state regulations of tobacco use, such as *Philip Morris v. Uruguay* or *Philip Morris v. Australia*, actually create serious doubts about a country's commitment to treat investors fairly or damage reputations with the international investment community.³¹

Given the historically narrow, specific, decentralized, unpredictable, opaque, and inconclusive monitoring and sanctioning mechanisms created by the ISDS regime, as well as its contested legitimacy, the presumption that the registration of an individual arbitral claim carries significant reputational costs with the international investment community warrants further investigation. Investment disputes between states and particular firms, especially disputes not establishing legal precedents, settled prior to arbitration, adjudicated by ad hoc panels under a veil of confidentiality, open to multiple delays and further appeals, or involving conflicting norms regarding state sovereignty, convey only limited and ambiguous information about government compliance with treaty obligations. The monitoring and sanctioning mechanisms brought into play by disputes simply do not allow investors to update their perceptions of investment risk with any degree of confidence. For these reasons, we depart from the conventional wisdom about the reputational costs of investor-state dispute involvement. Our central theoretical explanation is that the reputational consequences of dispute involvement are limited by the high informational costs associated with the existing ISDS regime.

³¹See ICSID ARB/10/7 and PCA Case No. 2012-12, respectively.

DISPUTES AND FDI FLOWS

We begin our analysis of the consequences of alleged investment treaty violations by examining the linkage between FDI flows and ICSID disputes. The argument presented by the extant literature on this topic is that BITs increase FDI flows into countries that sign them but only if those countries do not subsequently become involved in investor-state dispute arbitration at ICSID. This argument was first put forward and tested by Allee and Peinhardt (2011) and has since been cited by Berger et al. (2011); Poulsen and Aisbett (2013); Wellhausen (2013); Haftel and Thompson (2013); Kerner and Lawrence (2014). The argument that disputes lead to declines in FDI flows poses an important challenge to our central theoretical argument about the relative ineffectiveness of these types of disputes in communicating information to investors. To address this, we revisit this empirical linkage first argued by Allee and Peinhardt (2011) using an updated database that goes to 2014 – the sample used in that original analysis extended only to 2007.

In choosing our model specification, we closely mirror the choices made in earlier works. For our dependent variable we use logged, net FDI flows at the country-year level of analysis. Allee and Peinhardt highlight the importance of choosing this dependent variable as it best enables them to test how their reputational argument should apply to both current and potential investors. Specifically, they note that, “firms who currently have investment in a country are likely to reconsider the investment climate in the host country . . . on an ongoing basis” and “potential new investors are likely to reconsider whether a potential host country . . . has been a defendant in ICSID disputes.”³² Accounting for both outflows and inflows introduces important variation, which the extant arguments in the literature would suggest can be explained by countries facing a higher number of ICSID disputes.

Our key independent variable measures the number of ICSID disputes a country has faced and to construct this we turn to the publicly maintained records that ICSID provides.³³ Using these records, we create three versions of the disputes variable, a counter of how many

³²Allee and Peinhardt (2011, p. 419–420)

³³ICSID (2015): 7,10

disputes a country has faced in the past two years, in the past five years, and a cumulative count. Given our arguments in the preceding section, our expectation is that each of these variables will have a minimal and uncertain effect on FDI flows.³⁴

The control variables utilized in the analysis include the cumulative number of BITs ratified by a country, which we derive from the UNCTAD database.³⁶ Given that investment treaties are designed to convey relatively broad signals to the international investment community, we expect the number of ratified BITs to be positively related to reputation. Since the goal of the analysis is to estimate the impact of investor-state dispute involvement vis-à-vis other variables that we expect to affect a state's reputation with the international investment community, we also include economic dynamism, level of development, market size, macroeconomic stability, political violence in the country, risk to government from foreign action, financial openness, political democracy, level of property rights protection, and total world FDI in a given year. We operationalize these variables, respectively, on the basis of GDP growth,³⁷ logged GDP per capita,³⁸ population,³⁹ the rate of inflation,⁴⁰ internal and stability,⁴¹ financial openness (from Chinn and Ito),⁴² polity ratings,⁴³ and the sum of net FDI flows in a given year – all of which, with the exception of inflation, we expect to exercise a positive influence on international reputation.

Our sample includes all lower and middle-income nations for which data are available. We exclude upper income nations from the analysis because their role in the international

³⁴We do not advance any hypotheses about the effects of winning or losing disputes because a high proportion of registered ICSID cases (39 percent at the ICSID as of late 2013) have not been concluded, and there is no reason to think that those belonging to the concluded set are representative of the broader universe. As suggested above, “concluded” is also a potentially misleading label even as applied to ICSID cases inasmuch as a dispute decided by an arbitral panel at one point in time is subject to further revision and annulment proceedings as well as supplementary annulment proceedings. According to the ICSID’s caseload statistics, 28 percent of all awards rendered by the ICSID between 1972 and 2013 led to applications for annulment.³⁵ The distinction between “concluded” and “pending” cases is accordingly rather blurry.

³⁶UNCTAD (2013)

³⁷World Bank (2013)

³⁸Ibid

³⁹Ibid

⁴⁰Ibid

⁴¹Political Risk Services Group (2013)

⁴²Chinn and Ito (2008)

⁴³Specifically, we use the Polity 2 score from the Polity IV project developed by Marshall, Gurr and Jaggers (2013).

investment regime differs significantly from that of lower and middle-income nations.⁴⁴ The time period covered by the statistical analysis ranges from 1987, when the first treaty-based dispute was brought to international arbitration, to 2014, yielding an unbalanced time-series panel of more than 2,500 observations covering 101 countries. The results of this analysis are shown in Table 1.

Variable	Model 1	Model 2	Model 3
ICSID (past 2 years)	0.000 (0.011)		
ICSID (past 5 years)		0.000 (0.007)	
Cumulative ICSID _{t-1}			-0.006 (0.004)
%Δ GDP _{t-1}	0.003 (0.002)	0.003 (0.002)	0.003 (0.002)
Ln(GDP per capita) _{t-1}	0.162* (0.065)	0.162* (0.065)	0.156* (0.065)
Ln(Pop.) _{t-1}	0.030 (0.098)	0.030 (0.099)	0.015 (0.099)
Ln(Inflation) _{t-1}	-0.021 (0.023)	-0.021 (0.023)	-0.024 (0.023)
Internal Stability _{t-1}	-0.008 (0.008)	-0.008 (0.008)	-0.008 (0.008)
External Stability _{t-1}	-0.001 (0.008)	-0.001 (0.008)	-0.001 (0.008)
Ratified BITs _{t-1}	0.005** (0.001)	0.005** (0.001)	0.005** (0.001)
Capital Openness _{t-1}	-0.021 (0.012)	-0.021 (0.012)	-0.023 (0.012)
Polity _{t-1}	0.000 (0.001)	0.000 (0.001)	0.000 (0.001)
Property Rights _{t-1}	0.003 (0.004)	0.003 (0.004)	0.002 (0.004)
World FDI	0.000 (0.000)	0.000 (0.000)	0.000 (0.000)
n	2572	2572	2572
N	101	101	101
R ²	0.99	0.99	0.99
Adj. R ²	0.99	0.99	0.99
RMSE	0.49	0.49	0.49

TABLE 1. Regression on Ln(FDI flows) using country fixed effects, standard errors in parentheses. ** and * indicate significance at $p < 0.05$ and $p < 0.10$, respectively.

⁴⁴This is the same exclusion criteria used by Allee and Peinhardt (2011). Specifically, we follow their case selection rule of excluding those countries that were members of the OECD at the beginning of the time period of the analysis. Applying different case selection rules, such as removing upper income countries as defined by the Word Bank leads to similar results.

As expected, the results for our parameterizations of ICSID disputes each consistently show that simply facing a dispute at ICSID is not associated with a meaningful change in the level of FDI flows a country can expect to receive. This finding is in stark contrast to earlier research that has sought to understand the costs of ICSID disputes.⁴⁵ More importantly for us, however, is that it raises question about the assumptions behind the causal mechanism linking disputes to FDI flows. The mechanism through which disputes are assumed to affect FDI flows is through changes in reputation following a dispute, yet, this is an assumption that has not actually been tested. Thus we next turn to a more direct test of the proposition that becoming a respondent in an investor-state dispute carries significant reputational costs.

RESEARCH HYPOTHESES, DATA, AND METHODOLOGY

Building on the theoretical arguments outlined above about the narrow, uncertain, and limited information conveyed by ISDS processes, we hypothesize that the reputational impact of state involvement in investment dispute processes is at best limited. For the purposes of this analysis, reputation is defined in terms of the Investment Profile rating of the International Country Risk Guide (ICRG),⁴⁶ which is designed to offer international investors guidance with respect to the risks of investing in particular countries. The Investment Profile rating represents one component of overall investment risk in the ICRG rating system, and it focuses specifically on risk in the area of contract viability/expropriation, profit repatriation, and payment delays on a scale ranging from 1 to 12. These ratings begin in 1984 and cover a total of 140 countries. The perceptual assessments of the ICRG have been used extensively in prior research in international political economy, including Allee and Peinhardt's work on the impact of ICSID investment disputes. But whereas prior research has employed the ICRG data and other perceptually based and partially overlapping rankings, such as the "rule of law," "law and order," and "property rights", as control variables, we

⁴⁵Given how different this finding is from previous research, we present a replication study of Allee and Peinhardt (2011), which is to our knowledge the most prominent other work on this subject. When conducting this replication we find that the significant negative effects of ICSID disputes on FDI flows that they report are a result of a coding error. A full discussion of this coding error and its effect on their results is shown in the Appendix.

⁴⁶Political Risk Services Group (2013)

draw upon reputational data to provide a direct assessment of the causal mechanism widely presumed to link disputes with investor behavior.

Our key independent variables accounting for the formal initiation of investor-state dispute arbitration at ICSID remain the same as before. Additionally, the control variables remain similar as well, the one change we make here is that we no longer include the ICRG measure of property rights as an independent variable. Including this variables in the analysis may create problems of endogeneity as well as a bias towards underestimating the impact of disputes on reputation. Our sample for this reputation analysis is still composed of lower and middle-income nations. In total, we have over 2,600 observations for over a 100 countries from 1987 to 2014.

EMPIRICAL RESULTS

We begin the analysis of the effects of dispute involvement on perceptions of investment climate using a fixed effects framework with robust standard errors. Table 2 displays the results of this analysis. The lagged number of ratified BITs has a positive impact on reputations with the marginal effect of ratifying an additional ten treaties, equating to a 0.3 point change in reputation. Additionally, so-called “country fundamentals” matter: countries with higher levels of economic growth, greater market size, more capital account openness, more democracy, and higher levels of internal stability have stronger reputations. Also as expected, high rates of inflation have adverse reputational effects.

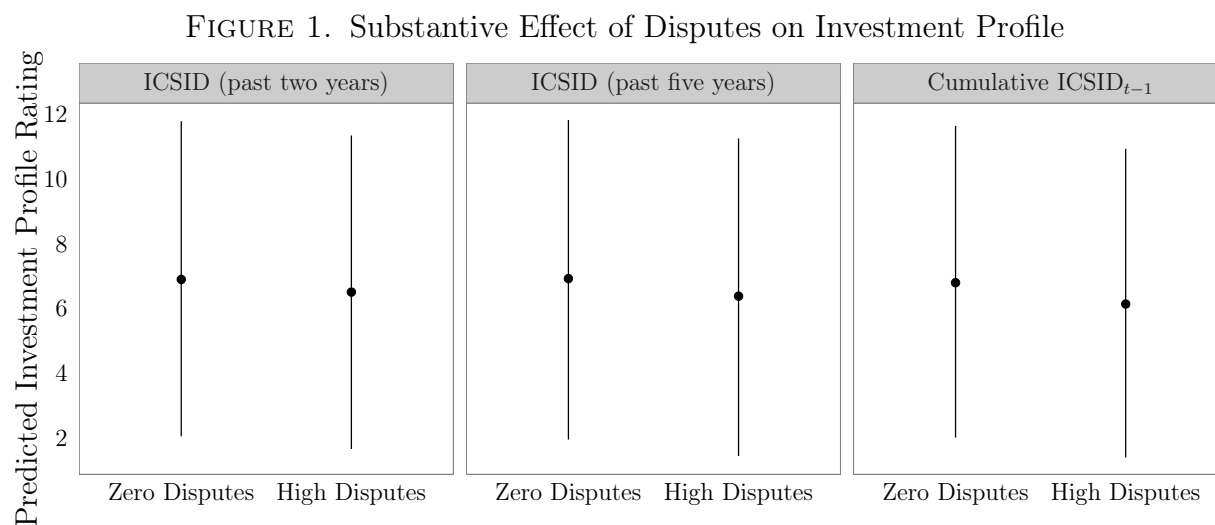
Variable	Model 1	Model 2	Model 3
ICSID (past two years)	-0.130** (0.049)		
ICSID (past five years)		-0.090* (0.039)	
Cumulative ICSID _{t-1}			-0.066* (0.027)
%Δ GDP _{t-1}	0.016* (0.006)	0.016* (0.006)	0.016* (0.006)
Ln(GDP per capita) _{t-1}	0.701 (0.391)	0.687 (0.389)	0.720 (0.391)
Ln(Pop.) _{t-1}	2.608** (0.382)	2.617** (0.382)	2.647** (0.382)
Ln(Inflation) _{t-1}	-0.277** (0.077)	-0.283** (0.076)	-0.294** (0.076)
Internal Stability _{t-1}	0.202** (0.034)	0.202** (0.034)	0.201** (0.034)
External Stability _{t-1}	-0.006 (0.037)	-0.008 (0.037)	-0.011 (0.037)
Ratif. BITs _{t-1}	0.025* (0.01)	0.027** (0.01)	0.029** (0.01)
Capital Openness _{t-1}	0.195** (0.067)	0.192** (0.066)	0.181** (0.067)
Polity _{t-1}	0.012** (0.003)	0.012** (0.003)	0.012** (0.003)
n	2603	2603	2603
N	101	101	101
R ²	0.97	0.97	0.97
Adj. R ²	0.97	0.97	0.97
RMSE	1.29	1.29	1.28

TABLE 2. Regression on investment profile using country fixed effects, robust standard errors in parentheses. ** and * indicate significance at $p < 0.05$ and $p < 0.10$, respectively.

Moving to our dispute measures, each has a significant and negative effect on reputation. However, it is unclear how much to make of the marginal differences in coefficient estimates, since our reputation variable ranges from 0 to 12 and the coefficient estimates only differ by fractions of a point. Additionally, even though the dispute measures show up as significant predictors in the model, their substantive impact on reputation is worthy of further exploration.

To explore this issue more fully, we utilize a simulation-based approach. For each model, we set up two scenarios, one in which the disputes variable is set to zero and another where it is set to three, which approximates the 99th percentile value for each of the dispute measures.

All other covariates are set to their median value. Next, we conduct 1,000 random draws from a multivariate normal to obtain distributions for the point estimates of each of the regression coefficients. After obtaining these distributions, we calculate the predicted value of reputation given the conditions set by the two scenarios. The result of this analysis is visualized in Figure 1. A solid circle is used to designate the mean estimate for each scenario and the line widths designate where 95 percent of the values for a given scenario fall. For each of the dispute variables shown, there is less than a one point difference in the predicted investment profile rating predicted by the zero and high dispute scenarios. In addition to this relatively minimal difference, the level of uncertainty around these predictions is quite large. Taken together these characteristics of the data challenge the broad claim that dispute initiation generates significant reputational costs for offending countries.

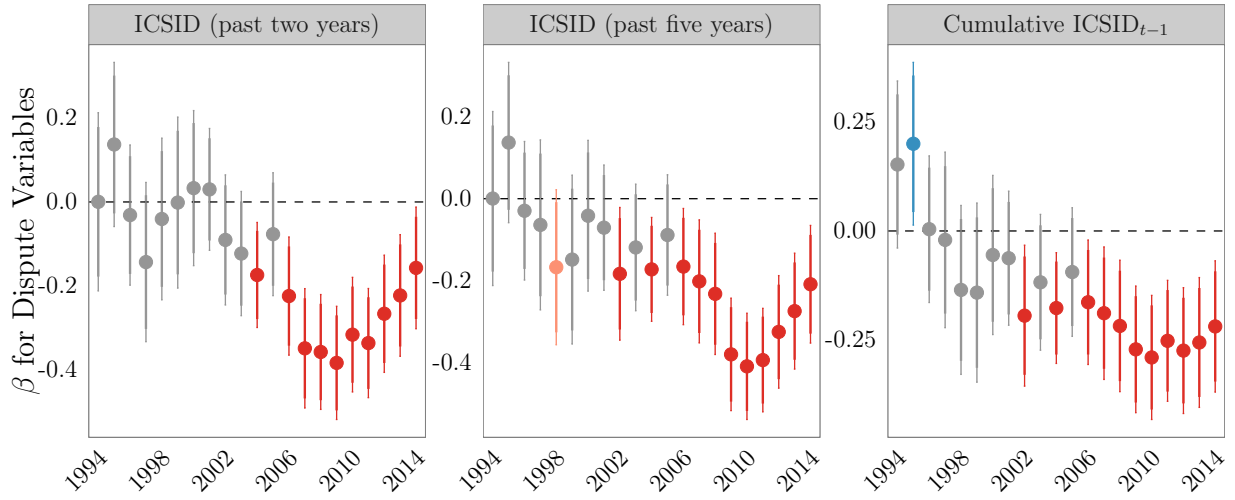


Note: Here we show a typical country's predicted rating on investment profile under a scenario where a country faces a minimum versus the 99th percentile number of disputes, for each of the dispute variables this is equal to 3. Results were obtained by using simulations that accounted for inferential uncertainty. The point estimates here represent the mean predicted ratings and the line represents the 95% level of uncertainty associated with these estimates.

The fact that the level of uncertainty around our predicted values is so high, however, raises an interesting question. As we discussed earlier, the assumption that international institutions automatically generate adverse effects with regards to country reputation is

questionable. Developing a system of effective enforcement is likely to take time as is reputational change. Much of the literature on investment treaties, however, assumes that dispute involvement entails predictable costs, regardless of time period. This is an unnecessary assumption that we examine more closely by unpacking potential temporal variation in the effect that ICSID disputes have on a country's reputation.

FIGURE 2. Change in Effect of Disputes Over Time



Note: Each point here designates the coefficient estimate for a disputes variable in that year and the thick line represents the 90% confidence interval around that point estimate, while the longer, thin line represents the 95% confidence interval. Dark grey lines and points designate coefficient estimate significant at a 95% confidence interval and medium grey at a 90% confidence interval, and light grey estimates that are not significant at either of those intervals. All the covariates used in the initial model shown in Table 2 were included in these pooled models as controls.

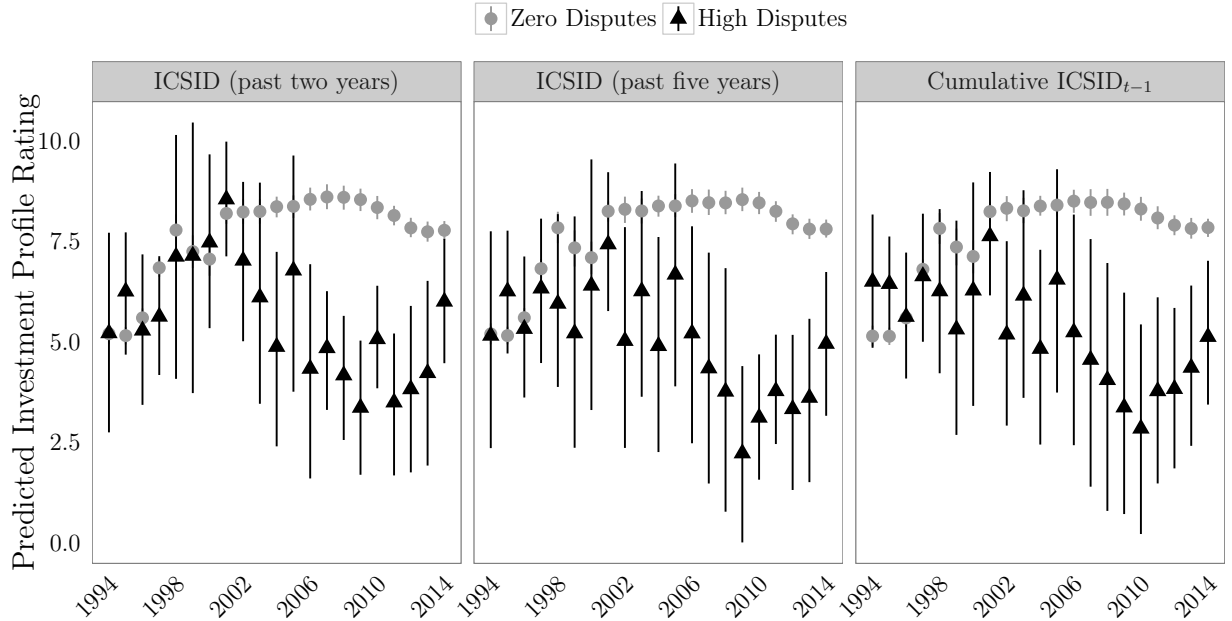
To explore this issue, we rerun the analysis shown in Table 2 on a series of yearly level pooled models for the 1994–2011 period.⁴⁷ All the control variables included in Table 2 are used here as well. Since our substantive interest is in how the effect of disputes has changed over time, for the sake of space we only show the coefficient results for our dispute measures in Figure 2. The dot in each line represents the coefficient estimate for a disputes variable in a given year, with the line width representing the 95 percent confidence interval around that

⁴⁷We begin our period for analysis here at 1994 because the infrequency of disputes before that date leads to cases in which no country had a dispute within the last two years.

point estimate. Coefficient estimates that are significant at a 95 percent confidence interval are colored in black.

We find significant variation in how the effect of disputes on reputation has changed over time. Prior to 2006, the estimated impact of disputes tends to be imprecisely measured. After that point in time, the precision of the estimated effect narrows dramatically. Across each parameterization of the dispute variable, there exists a clear negative relationship between the initiation of disputes and perceptions of a country's investment reputation.⁴⁸

FIGURE 3. Substantive Effect of Changes in Disputes



Note: Each line here shows the mean prediction and 95% interval around a given scenario using the pooled yearly level regression results. The grey line and circle denote the scenario in which all control variables are set to their median and disputes is set to zero. The black line and triangle denote the scenario in which all control variables are set to their median and the disputes variable is set to its 99th percentile. Results were obtained by using simulations that accounted for inferential uncertainty.

⁴⁸As a check on the results from this series of pooled models, we add a binary variable that equals one after 2006 and zero otherwise to each of the models shown in Table 2. We then add an interaction between the binary variable and the dispute measure for each model. In each case, we find that the binary variable and the interaction term have a significant negative effect, at a 95% confidence interval, on reputation. We choose, however, to present the results from the series of pooled models to more clearly highlight the increasing negative effect of disputes over time.

Similar, to our fixed effects analysis, we gauge the substantive meaning of this finding using a simulation-based approach. Figure 3 visualizes the results of our simulation. The grey line and circle denote the scenario in which all the control variables are set to their median and the disputes variable is set to zero. The dark line and triangle denote the scenario in which the control variable are again set to their median but the disputes variable is set to its 99th percentile value for each dispute measure. The line width again designates where 95 percent of the predicted values for a particular scenario fall.

Looking across the results shown in this figure, we can see that pre-2006, the predicted investment profile ratings given these two scenarios tends to overlap. After 2006, however, we can clearly see a divergence in the reputation of countries that have faced disputes and those have not. Countries that have gone without facing disputes typically receive investment profile ratings of 8, while those that have had a high number of disputes within the past two years have predicted ratings that are almost two points less.

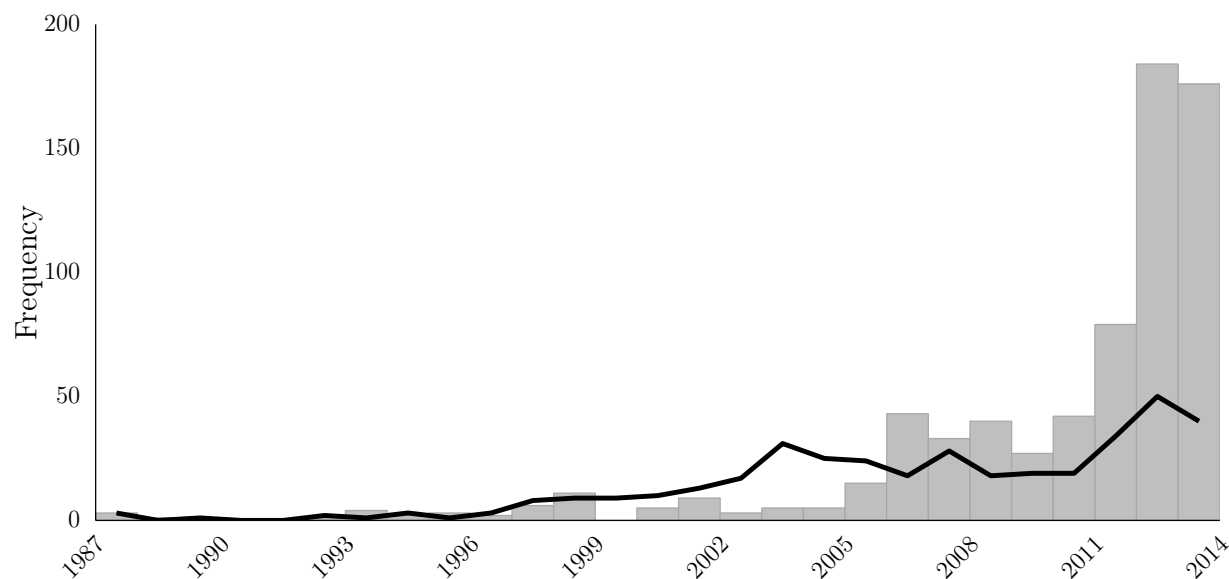
INCREASING INFORMATION AND MEDIA ATTENTION

The preceding empirical results are consistent with the argument that reputational enforcement of treaty commitments is contingent on institutional design and associated information costs. In accordance with theoretical expectation, the impact of investor-state disputes has been relatively marginal over the broader time period of our analysis, and reputational effects only begin to materialize since 2007. The obvious question is what accounts for this trend? Has information about ISDS processes expanded significantly over time, buttressing our theoretical expectations about the importance of information flows? We cite three sources of evidence about a change in information availability in support of such a claim.

First, there has been a growing amount of publicity in recent years about ICSID cases and the arbitration tribunal as a whole. Figure 4 shows the results of a LexisNexis search on mentions of ICSID disputes in international newspaper sources from 1974 to 2011. The lack of media mentions between 1974 and 1990 may simply result from a lack of online media sources; however, that same argument cannot be used to explain the paucity of mentions since

the 1990s. Further even after the number of disputes brought before ICSID dramatically increased in the early 2000s, mentions of ICSID in the media did not meaningfully pick up until 2007. Since 2007 though the number of ICSID related articles in newspapers has increased dramatically, with almost 200 stories filed in 2014. This growth in media coverage is consistent with the previous analysis showing a change in the impact of dispute involvement on reputation in recent years.

FIGURE 4. Newspaper Mentions of ICSID



Note: The height of the grey bars denotes the number of times ICSID was mentioned in a newspaper source in that year from 1974 to 2011, while the dark line represents a count of the number of ICSID disputes brought in that year.

Second, since the early 2000s, there has been a dramatic expansion of electronic services monitoring ISDS processes. Table 3 lists a number of these sources and the date on which they began reporting.

TABLE 3. Listing of web-based services monitoring ICSID processes

Source	Year Established
Investment Treaty News	2002
Transnational Dispute Management	2003
Investment Treaty Arbitration	2004
Global Arbitration Review	2006
Investment Arbitration Reporter	2008
International Arbitration Database	2008
Kluwer Arbitration Blog	2009
Investor-State LawGuide	2011
International Investment Arbitration	2011

Third, since 2006 the ICSID has adopted new rules regarding transparency. Of particular importance are amendments to the ICSID's arbitration rules introduced in 2006, which mandate the Centre to publish excerpts of the legal reasoning applied by arbitration tribunals in reaching their decisions in specific cases.⁴⁹ Prior to this point, information about dispute arbitrations was only available with the consent of both parties. UNCITRAL has also recently adopted new rules on transparency effective April 1, 2014, although they only apply to treaties concluded prior to that date at the agreement of the disputing parties.⁵⁰ It seems reasonable to assume that all three sets of changes have led to increased awareness of the cases brought before arbitration tribunals and enhanced the reputational consequences of investment dispute involvement.

SHORT AND LONG TERM EFFECTS

The main limitations of the preceding results are that they do not directly address the question of reputational *change* nor allow us to distinguish between the short and long-term effects of alleged treaty violations. For this reason, we probe the impact of investment disputes further below on the basis of an error correction model (ECM). Contrary, to Allee

⁴⁹Yackee and Wong (2011); Antonietti (2006)

⁵⁰UNCITRAL (2013): 33-40

and Peinhardt, who assert “once an investment dispute emerges, investors will rethink their assessments of political risk,” our central theoretical expectation is that individual disputes are unlikely to have immediate or significant consequences for a state’s reputation with investors. To the extent that disputes matter, we expect instead that reputational costs only emerge slowly with the accumulation of arbitral claims and the growth of information about state behavior.⁵¹ In other words, the arguments relating state reputation to treaty compliance are arguably best understood as reflecting long-term equilibria rather than transitory or short-term effects.

Utilizing the same set of cases and variables as in the previous analysis, we assess these expectations on the basis of a model that includes the lagged dependent variable as well as both changes and lags of the independent variables as follows:

$$(1) \quad \Delta Y_{i,t} = \alpha + \Delta X_{i,t-1}\beta + \Phi(Y_{i,t-1} - X_{i,t-1}\gamma) + \epsilon_{i,t}$$

where $Y_{i,t}$ is the reputation of country i during year t , Δ is a first difference operator, X is a vector of independent variables, and $\epsilon_{i,t}$ is an error term. The dependent variable is thus the change in state reputation in a given year and the independent variables include lagged investment reputation, the lagged values of the independent variables, and lagged changes in the independent variables. Rewriting the equation in the form in which it is actually estimated, yields

$$(2) \quad \Delta Y_{i,t} = \alpha + Y_{i,t-1}\beta_1 + \Delta X_{i,t-1}\beta_2 + X_{i,t-1}\beta_3 + \epsilon_{i,t}$$

in which β_1 is the same as Φ in the error correction version of the equation, β_2 equivalent to β , and $\Phi(Y_{i,t-1})$ is rendered by β_3 . The short-term relationship between the registration of arbitral claims and reputation is thus captured by β_2 and the longer-term relationship by β_3 .

⁵¹Allee and Peinhardt (2011, p. 402)

Given problems of heteroskedasticity associated with cross-sectional time series research designs, as well as the relatively high ratio of panels to periods, the models are estimated with OLS and panel-corrected standard errors in accordance with the recommendations of Beck and Katz.⁵² The estimations are also corrected for panel-specific autocorrelation and country and time fixed effects to eliminate bias arising from omitted or unmeasured variables, which may not be completely exogenous with respect to other explanatory variables.

The estimates for changes in investment reputation are presented in Table 4. Beginning with the control variables, we see results that are weaker and only partially consistent with those reported above in Table 2. Again the evidence suggests that GDP growth, population, and internal stability matter to reputation; but the other coefficients are statistically weak, with the exception of the coefficient for lagged reputation, which strongly underlines the tendency for investment profile ratings to remain relatively stable over time.

For the variables of central theoretical interest, changes in dispute involvement and lagged levels of accumulated dispute involvement, the coefficients are decidedly weak. In accordance with theoretical expectation, in none of the columns are short-term increases in the number of arbitral claims registered against a state in the prior year statistically significant. At the same time, the results do offer some weak evidence that accumulated dispute involvement matters, at least for arbitral claims that are registered at the ICSID and not settled or discontinued prior to arbitration. As discussed above, these two categories of disputes are those about which the most information is publicly available, underlining the relevance of the transparency dimension for reputational sanctioning in the ISDS process.

⁵²Beck and Katz (1995)

TABLE 4. The Impact of Investor-State Disputes on International Investment Risk Profile

	All ICSID Disputes	ICSID Treaty-Based	Unsettled ^a ICSID	ICSID- UNCTAD
Δ Registered Disputes	0.000 (0.015)	-0.015 (0.017)	-0.022 (0.018)	-0.007 (0.010)
Registered Disputes _{$t-1$}	-0.003 (0.002)	-0.003 (0.001)	-0.004 (0.002)	-0.002 (0.001)
Δ Log(GDP)	1.875 (0.893)	1.870 (0.896)	1.829 (0.893)	1.834 (0.893)
Log(GDP) _{$t-1$}	-0.014 (0.025)	-0.013 (0.025)	-0.010 (0.025)	-0.011 (0.025)
Δ Log(Population)	23.063 (11.499)	23.083 (11.497)	23.148 (11.503)	23.166 (11.509)
Log(Population) _{$t-1$}	0.123 (0.094)	0.122 (0.094)	0.119 (0.094)	0.119 (0.094)
Δ Log(Inflation)	-0.070 (0.067)	-0.070 (0.067)	-0.071 (0.067)	-0.070 (0.067)
Log(Inflation) _{$t-1$}	0.013 (0.018)	0.013 (0.018)	0.013 (0.018)	0.013 (0.018)
Δ Internal Stability	0.026 (0.020)	0.026 (0.020)	0.026 (0.020)	0.026 (0.020)
Internal Stability _{$t-1$}	0.009 (0.004)	0.009 (0.004)	0.009 (0.004)	0.009 (0.004)
Δ Ratified BITs	0.000 (0.009)	-0.000 (0.009)	0.000 (0.009)	0.000 (0.009)
Ratified BITs _{$t-1$}	0.001 (0.001)	0.001 (0.001)	0.001 (0.001)	0.001 (0.001)
Δ Capital Openness	-0.001 (0.008)	-0.001 (0.008)	-0.001 (0.008)	-0.001 (0.008)
Capital Openness _{$t-1$}	0.004 (0.008)	0.004 (0.008)	0.004 (0.008)	0.004 (0.008)
Δ Polity	0.002 (0.003)	0.002 (0.003)	0.002 (0.003)	0.002 (0.003)
Polity _{$t-1$}	0.001 (0.002)	0.001 (0.002)	0.001 (0.002)	0.001 (0.002)
Investment Profile _{$t-1$}	-0.079 (0.010)	-0.079 (0.010)	-0.079 (0.010)	-0.079 (0.010)
n	2,096	2,096	2,096	2,096
N	103	103	103	103
R^2	0.34	0.34	0.34	0.34

Note: Dispute variables succeeded by $t - 1$ measure the lagged cumulative total of disputes; variables preceded by Δ measure percentage changes. OLS estimates with fixed effects and panel-corrected standard errors in parentheses. Coefficients for time and country dummy variables not shown.

a: The “unsettled” category excludes treaty disputes that were resolved via settlement or discontinuation prior to ICSID arbitration.

Estimating the substantive effects of dispute involvement on the basis of the error correction form of the model presented above helps to clarify these results. Drawing on the coefficients for ICSID treaty-based disputes, for example, it can be calculated that with all other variables held constant the registration of a new arbitral claim against a state will only lead to a 0.02 point decline in investment reputation over the short run, which is roughly equivalent to a 0.3 percent decrease relative to the mean value of reputation for the set of cases under consideration. Although reputation will continue to decline further over time by an additional 0.04 points, or roughly 0.6 percent relative to mean reputation, the costs of an individual investor-state dispute are negligible. Even for the registration of three new disputes in a single year, the short-term impact is only an estimated 0.05 point decline in reputation (roughly 0.7 percent) with a further adjustment over the long run of 0.11 points, which approximates a 1.6 percent drop relative to average reputation. To place these figures in perspective, as of 2011 only seven countries in our data set had been involved in three or more ICSID treaty-based investment disputes in a single year. Consistent with the evidence presented above, it should further be emphasized that reputational costs have only reached significant levels in recent years with the dramatic expansion in publicity about ISDS. If the ECM analysis is limited to the pre-2007 period, not one of the lagged dispute coefficients presented in Table 4 achieves statistical significance at the 0.05 level.

CONCLUSION

This paper makes an original contribution to the growing body of literature on international investor-state disputes by systematically studying their reputational consequences. Whereas prior research has claimed that alleged treaty violations are predictably translated into reduced foreign direct investment flows, we find no evidence of such an effect. We therefore turn to the analysis of reputational damage, which is the mechanism presumed to be brought into play by perceptions that a state has violated its treaty commitments. Drawing upon an original dataset that covers the investor-state dispute involvement of lower and middle income countries both at the ICSID and other international venues, we analyze the

impact of investment disputes on levels of investment reputation as well as changes in that reputation over the 1987-2011 period. Contrary to the expectations generated by the theoretical literature on international political economy, as well as prior research on ISDS, our research suggests that the reputational costs of investment dispute involvement are heavily dependent on information flows.

Focusing initially upon the impact of disputes registered over the prior two years, we find that investor-state disputes have a modest and contingent impact on reputation. The predicted value of investment reputation for countries involved in zero disputes is less than one point lower than that of countries scoring in the 99th percentile for dispute involvement. Moreover, these reputational differences revolve around observations for the post-2006 period during which access to information about dispute settlement processes exploded, both in response to changes in the rules governing international arbitration and mounting international publicity about ISDS. These findings are consistent across different types of disputes and arbitral venues.

Exploring the impact of arbitral claims on changes in investment reputation on the basis of an error correction model, we find very similar results. Reputational shifts are completely unrelated to short-term increases in the number of challenges registered against a state. More significant is the record of dispute involvement accumulated by a state over the long run, particularly at the ICSID; but the results are anything but robust and again depend on the inclusion of observations for the post 2006-period.

Taken together our three sets of findings on the impact of disputes on foreign investment, investment reputation, and changes in investment reputation substantively challenge the conclusions of prior research focusing on disputes registered at the ICSID between 1984 and 2006. Only in the post-2006 period have disputes manifested a reputational impact. Thus whereas the logic underlying the credible commitment story espoused in the BITs literature assumes that states incur statistically and substantively significant costs from allegations that they have violated their international agreements, we show that the effects of involvement in investor-state disputes are contingent on institutional design and information flows.

These findings have significant implications for the broader body of literature on international institutions. Existing theory assumes that formal international commitments raise the ex post cost of defection, thereby creating incentives for states to comply with their treaty obligations. Our analysis significantly modifies this expectation by suggesting that the strength of the incentives for compliance vary with the breadth, visibility, and legitimacy of the monitoring, sanctioning, and enforcement mechanisms brought into play by particular sets of international institutions. Under the current ISDS regime, the monitoring of treaty compliance is externalized to individual private firms and ad hoc arbitral tribunals, whose deliberations are limited to the facts of a particular case, unpredictable, less than transparent, prolonged, and potentially reversible. Other characteristics of the ISDS regime have further reduced its effectiveness, including the contested legitimacy of international arbitral processes involving collisions between the treaty protections accorded investors and other sets of international norms. Notwithstanding the legal powers enjoyed by investors under international treaty agreements, the reputational risks of state involvement in ISDS processes have been accordingly attenuated. It is only since 2007, when important shifts took place in the access of investors to information about dispute processes that reputational costs began to become significant. The central implication for future research is that reputational mechanisms for effective treaty enforcement are contingent on institutional design and associated information costs.

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APPENDIX

Allee & Peinhardt 2011 Analysis. The problem arises in Allee and Peinhardt’s (2011) attempt to address the skewness of the net FDI variable through taking the log. In doing so, Allee and Peinhardt disregard the fact that logarithms of zero and negative numbers are not defined and therefore registered as missing in most statistical programs. They make no attempt to address this issue and, as a result, mistakenly exclude a notable number of country-year observations with negative or zero flows. Given their argument about the adverse reputational ramifications of ICSID disputes involvement on FDI flows, one could argue that the observations with negative flows are the most relevant portion of their dataset. In our replication of their analysis, we correct for this error by following the simple procedure suggested by Li, which calls for adding a constant so that each value is greater than zero before logging.⁵³

The impact of Allee and Peinhardt’s error is readily apparent in Table A.1. Using their data and statistical approach, the first column of the table exactly replicates their base model that assesses the impact of pending ICSID disputes over the 1984-2007 period. In column two, we follow the exact same procedure except we log FDI flows in the correct way. Comparing the results of columns one and two, it becomes evident that after including zero and negative FDI observations, ICSID dispute involvement does not significantly affect FDI flows. The results presented in other columns of the table are consistent with this finding. Columns three and four compare the results for the effect of disputes filed in the past two years, and columns five and six use disputes filed in the past five years. In each case we see that Allee and Peinhardt’s original findings do not hold after logging the FDI variable in such a way that we do not throw away observations. For reasons of space, we do not report our findings with respect to other sets of Allee and Peinhardt’s results, which address the impact of ICSID disputes lost or settled over the past two and five years as well as the impact of disputes lost over the past two years controlling for pending disputes. The results for these additional estimations, however, follow the same pattern as those reported in Table A.1.

⁵³Li (2009)

We simply find no evidence that foreign investment flows are responsive to ICSID activity.⁵⁴ Given the nature of these findings, we turn to a more direct test of the proposition that becoming a respondent in an investor-state dispute carries significant reputational costs.

TABLE A.1. The Impact of ICSID Arbitration on FDI Inflows

	(1)		(2)		(3)	
	A & P	Corrected	A & P	Corrected	A & P	Corrected
Signed BITs	0.015 (0.010)	0.001 (0.000)	0.015 (0.009)	0.001 (0.000)	0.016 (0.010)	0.001 (0.000)
Pending Claims	-0.036 (0.011)	0.000 (0.003)				
Disputes filed (past 2 years)			-0.057 (0.018)	-0.000 (0.003)		
Disputes filed (past 5 years)					-0.040 (0.011)	-0.000 (0.002)
Economic Shocks	-0.032 (0.066)	-0.004 (0.003)	-0.031 (0.065)	-0.004 (0.003)	-0.031 (0.065)	-0.004 (0.003)
Political Shocks	-0.011 (0.010)	-0.000 (0.001)	-0.011 (0.010)	-0.000 (0.001)	-0.011 (0.010)	-0.000 (0.001)
External Threat	-0.046 (0.026)	-0.003 (0.001)	-0.047 (0.026)	-0.003 (0.001)	-0.047 (0.026)	-0.003 (0.001)
Polity	0.015 (0.018)	-0.000 (0.001)	0.015 (0.018)	-0.000 (0.001)	0.015 (0.018)	-0.000 (0.001)
Property Rights	0.039 (0.021)	-0.001 (0.002)	0.039 (0.022)	-0.001 (0.002)	0.039 (0.022)	-0.001 (0.002)
Log(Population)	1.30 (0.525)	-0.032 (0.032)	1.32 (0.525)	-0.032 (0.032)	1.31 (0.526)	-0.032 (0.032)
GDP per capita	1.06 (0.265)	0.051 (0.020)	1.05 (0.264)	0.051 (0.020)	1.05 (0.264)	0.051 (0.020)
GDP growth	0.018 (0.007)	0.000 (0.000)	0.018 (0.006)	0.000 (0.000)	0.018 (0.007)	0.000 (0.000)
Financial Openness	0.126 (0.059)	0.005 (0.004)	0.127 (0.059)	0.005 (0.004)	0.125 (0.058)	0.005 (0.004)
Exchange rate	-0.001 (0.000)	0.000 (0.000)	-0.001 (0.000)	0.000 (0.000)	-0.001 (0.000)	0.000 (0.000)
World FDI	0.438 (0.072)	0.024 (0.008)	0.430 (0.073)	0.024 (0.008)	0.438 (0.073)	0.024 (0.008)
<i>n</i>	1,796	1,956	1,796	1,956	1,796	1,956
<i>N</i>	102	102	102	102	102	102
<i>R</i> ²	0.52	0.24	0.52	0.24	0.52	0.24

Note: All variables (except World FDI) lagged one year. Fixed-effects estimation with standard errors clustered on country. Standard errors in parentheses.

Descriptive Statistics.

⁵⁴Estimations utilizing unlogged FDI are very similar.

TABLE A.2. Descriptive Statistics

	N	n	Mean	Std. Dev.	Min	Max
Investment Profile	112	2658	6.94	2.42	0.00	12.00
All ICSID Disputes (Two Year Sum)	112	2644	0.21	0.94	0.00	25.00
ICSID Treaty-Based (Two Year Sum)	112	2644	0.18	0.92	0.00	25.00
Unsettled ICSID (Two Year Sum)	112	2644	0.13	0.69	0.00	15.00
ICSID-UNCTAD (Two Year Sum)	112	2644	0.24	1.09	0.00	29.00
% Δ GDP	109	2511	0.09	0.17	-0.80	1.43
Ln(Pop.)	111	2627	16.12	1.60	12.35	21.02
Ln(Inflation)	108	2355	3.31	0.71	-4.61	10.10
Internal Stability	112	2658	8.48	2.46	0.00	12.00
Ratif. BITs	111	2633	12.20	15.14	0.00	101.00
Capital Openness	107	2469	-0.02	1.53	-1.86	2.44
Polity	109	2583	11.01	7.09	0.00	20.00

TABLE A.3. Investor-State Disputes and International Investment Risk Profile (Using Semi-Balanced Panel, $T \geq 17 \forall$ countries)

	All ICSID Disputes	ICSID Treaty-Based	Unsettled ^a ICSID	ICSID- UNCTAD
Registered Disputes _{(t-1)+(t-2)}	-0.151 (0.067)	-0.162 (0.076)	-0.218 (0.091)	-0.122 (0.063)
% Δ GDP _{t-1}	0.543 (0.246)	0.543 (0.246)	0.538 (0.245)	0.541 (0.247)
Ln(Pop.) _{t-1}	3.573 (0.602)	3.559 (0.603)	3.545 (0.605)	3.553 (0.605)
Ln(Inflation) _{t-1}	-0.388 (0.112)	-0.388 (0.112)	-0.384 (0.111)	-0.386 (0.113)
Internal Stability _{t-1}	0.183 (0.033)	0.182 (0.033)	0.183 (0.034)	0.183 (0.033)
Ratif. BITs _{t-1}	0.035 (0.011)	0.035 (0.011)	0.035 (0.01)	0.035 (0.011)
Capital Openness _{t-1}	0.202 (0.088)	0.201 (0.088)	0.202 (0.088)	0.2 (0.088)
Polity _{t-1}	0.034 (0.016)	0.034 (0.016)	0.035 (0.016)	0.034 (0.016)
n	1884	1884	1884	1884
N	79	79	79	79
R^2	0.45	0.45	0.45	0.45
RMSE	1.32	1.32	1.32	1.32

Note: Fixed-effects estimation with standard errors clustered on country using a balanced panel. Standard errors in parentheses.

a: The “unsettled” category excludes treaty disputes that were resolved via settlement or discontinuation prior to ICSID arbitration.