# **IMF Working Paper**

## European Department

# The Sectoral Trade Losses from Financial Crises

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## Abstract

The "Great Trade Collapse" triggered by the 2008-09 crisis calls for a careful assessment of the trade losses from financial crises. We adopt a more detailed perspective by looking at the response of different types of trade (i.e. agricultural, mining, and manufactured goods, and services) following various types of financial crises (i.e. debt, banking, and currency crises). Estimations performed on the 1980-2018 period using a combination of impact assessment and local projections to capture a causal dynamic effect running from financial crises to the trade activity show that the collapse of total trade is long-lasting and mainly driven by the fall of manufacturing and to some extent services trade. These causal effects are found to operate through three channels: a structural, a demand-side, and a supply-side channel. By contributing to the understanding of the trade effects of financial crises, our analysis provides insightful support for the design and implementation of policies aimed at coping with these effects.

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#### I. INTRODUCTION

The recent 2008–09 crisis can be qualified as the "Great Trade Collapse" due to its profound effects on international trade.<sup>2</sup> Indeed, according to the WTO and IMF, the drop in world trade flows (around 12 percent of world GDP in 2009) exceeded that of world GDP (about 5 percent in 2009). Given the worldwide benefits of trade,<sup>3</sup> this severe downturn brought back into the spotlight the issue of the trade losses associated with financial crises.

By adopting a macroeconomic perspective, most existing studies focus on gravity models estimated on data of bilateral trade of goods between countries. In a panel of 150 countries, Rose (2005) finds a negative effect of debt crises on the trade between a debtor (defaulting country) and its creditors (the countries affected by the default), a result extended by Martinez and Sandleris (2011) to all trading partners of a defaulting country (i.e. both creditors and non-creditors) and confirmed more recently by Asonuma et al. (2016) in a treatment effect analysis. Such a detrimental effect on trade is equally emphasized for banking and currency crises, with some exceptions. Indeed, Ma and Cheng (2005) reveal that imports decline following both banking and currency crises, while exports decrease (increase) following banking (currency) crises. Abiad et al. (2014) conclude that debt and banking crises do not significantly affect exports, while they induce a sharp and long-lasting decline of imports. Altogether, apart from the inconclusive findings for exports, there exists a fairly strong consensus on the detrimental consequences of financial crises on trade at the macroeconomic level. However, this literature may be developed along several dimensions. First, most of the existing papers use trade data only for goods and do not account for trade in services, which may have greater resilience to financial crises according to Borchert and Mattoo (2010) and Ariu (2016). Second, since financial crises are likely not exogenous,

 $<sup>^2</sup>$  Baldwin (2011) reports that global trade fell for at least three quarters only in three of the worldwide recessions that occurred between 1965 and 2008: the oil-shock recession of 1974–75, the inflation-defeating recession of 1982–83, and the Tech-Wreck recession of 2001–02. However, the "Great Trade Collapse" of 2008–09 is by far the largest trade collapse since the WWII.

<sup>&</sup>lt;sup>3</sup> Early studies by Dollar (1992); Sachs and Warner (1995); Edwards (1998), and Frankel and Romer (1999) suggest that trade increases income, a result confirmed more recently by Rodriguez and Rodrik (2000) and Feyrer (2009a,b). Besides, international trade was also found to support overall and firms productivity or real consumption, and to reduce poverty (see e.g. Bernard and Jensen, 1999; Pavcnik, 2002; Trefler, 2004; Burstein and Cravino, 2015; Edmond et al., 2015; Johns et al., 2015).

existing studies, with the notable exception of Asonuma et al. (2016), may not capture a causal effect. Third, given the focus on the trade losses from each crisis taken separately without controlling for other crises, the effects may be overestimated since the different crises may be interrelated. Fourth, and more importantly, nothing is said on potential cross-sectoral differences in the effects of financial crises: different types of goods and services have different characteristics (e.g. in terms of demand elasticity, reliance on external financing, use as intermediate goods, vertical linkages, and so forth) that make them more or less vulnerable to financial crises.

Motivated by the great trade collapse, several contributions explain the contraction of trade following financial crises through two mechanisms, the income channel and the disruption channel.<sup>4</sup> Focusing on the demand side, the income channel suggests that financial crises reduce trade through their recessionary effect on income (see Reinhart and Rogoff, 2009), which leads to a fall in consumption, investment, and imports. For example, Freund (2009) finds that the income elasticity of trade increased from under 2 in the 1960s to over 3.5 in recent years, meaning that nowadays trade could fall about 3.5 times more than GDP. Such a disproportionate fall of the demand, and particularly of durable and investment goods, is indeed at work following the 2008–09 great trade collapse (see e.g. Bricongne et al., 2012; Behrens et al., 2013; Eaton et al., 2016). Conversely, focusing on the supply side, the disruption channel is supported by Iacovone and Zavaka (2009); Amiti and Weinstein (2011); Minetti and Zhu (2011); Chor and Manova (2012); Zymek (2012), and Manova (2013), who insist on the role of credit conditions (for example, financial development weakness) and trade credit (for example, external finance dependency) for explaining the decline of international trade following financial crises, while Bems et al. (2011); Altomonte et al. (2014) and Ariu (2016) point out the role played by the disruption of global value chains. Although these studies focus on the within-manufacturing comparison of industries over the recent period (i.e. following the great trade collapse of 2008–09), they suggest that not all types of goods and services may be equally affected by financial crises, due to

<sup>&</sup>lt;sup>4</sup> See e.g. Berman and Martin (2012) and Ariu (2016) for an extensive discussion of these two channels.

differences in their demand elasticity, external financing needs, vertical linkages through value chains, and their different perception by customers and investors.

Taking stock of the existing literature, the goal of our paper is to assess the trade losses from financial crises by adopting a sectoral perspective. Indeed, except for the aggregate trade of goods and trade in manufactured goods, the literature has so far remained fairly silent regarding the patterns of trade in agricultural or mining goods, or services, following historical financial crises. Moreover, compared with the recent literature that mainly focuses on the 2008–09 crisis, we draw upon a sample of 41 emerging countries over the period 1980–2018 to analyze the trade effects of several types of financial crises, namely 38 debt crises, 34 banking crises, and 36 currency crises. To treat potential endogeneity issues and provide a dynamic view of the trade losses from financial crises, we employ a novel method that combines local projections à la Jordà (2005) and impact assessment with the Augmented Inverse Propensity Weighted estimator.

Our results are as follows. First, consistent with the existing literature, we find that aggregate exports and imports fall by 5.6 and 11 percentage points (pp.) of pre-crisis GDP following debt crises, 8.9 and 14 pp. following banking crises, and 7.7 and 9.1 pp. following currency crises, respectively, over five years.

Second, we go beyond existing studies and disaggregate trade losses by type of goods and services. We find that manufacturing goods are most affected by financial crises. However, the impact of financial crises on other types of traded goods and especially on services is far from being negligible. Trade in both mining goods and services (particularly after banking crises) also declines following several types of financial crises, while trade in agricultural goods seems to benefit from a possible substitution effect particularly following debt crises. When looking at the trade losses from combined crises, we find that they exert a significant and higher decline of trade, compared to an individual crisis (i.e. one that it is not accompanied by other crises in the years around it).

Third, robust to a wide variety of alternative specifications, including alternative samples, maximum weights in the treatment models, sources and definitions of crises, and econometric estimators, our findings are explained by three channels: (i) a structural channel, (ii) a demand channel, and a (iii) supply channel. Regarding (i), the structural channel, we

find that financial crises may act as an impediment of structural transformation, since they hurt relatively more manufacturing exports in countries where the share of manufacturing exports is relatively lower. Moreover, the trade losses from financial crises are significantly lower for countries with diversified export products and trading partners; suggesting that by diversifying their exports and partners, countries can increase their resilience to financial crises. Regarding (ii), the demand channel, we find that financial crises that are associated with lower demand for goods and services from trading partners have more adverse trade impacts, particularly for manufacturing trade: agricultural and mining goods and services may have a lower income elasticity of demand compared with manufactured goods, which makes them more resilient to crises. For instance, the demand for agricultural goods may not contract too much when income decreases, since they are often necessary for subsistence, and they are usually low-priced; relatedly, Borchert and Mattoo (2010) outline that the focus on the trade of goods has obscured the quiet resilience of the trade of services during the recent crisis, which may be explained according to Ariu (2016) by their lower GDP growth elasticity compared with the elasticity of exports of goods (and also by the fact that services are intangible products that cannot be stored and used as collateral for requesting financing, and essential inputs for maintaining a production activity). On the contrary, the income elasticity of demand is high for manufactured goods, and particularly for durable and investment goods: Eaton et al. (2016) show that the decline of demand for "postponable" (durable and non-durable) manufactured goods drives the overall collapse in trade, and plays a role in the contagion to other countries, consistent with the findings of Levchenko et al. (2010) of a strong decline in the trade in durable and intermediate inputs following the 2008-09 crisis. Finally, regarding (iii), the supply channel, when associated with a deterioration of domestic and external financial conditions and sudden stops, financial crises exert a significant and detrimental effect on international trade that is mainly driven by the fall of manufacturing and services trade. Indeed, the stronger decline in the trade of manufactured goods during periods of credit crunch or deterioration in external financial conditions associated with financial crises may be related to the fact that their production and transport rely relatively more on external finance compared with agricultural and mining goods; as such, by severely limiting external finance, a credit crunch reduces firms' production and export capacities, as discussed by Iacovone and Zavaka (2009); Amiti and Weinstein (2011);

Minetti and Zhu (2011); and Zymek (2012) in the industry sector. Conversely, the production of agricultural and mining goods and services may require less external financing; for instance, mining goods are produced by large companies (often multinationals) that may rely on self-financing and own cash reserves than firms operating in the manufacturing sector. In addition, since most global value chains concern the production of manufactured goods, the interruption of a link in an international production chain and trade credit, due to a crisis in one country, can lead to the destruction of the entire chain, and further to a larger decline in the trade of manufactured goods. Altogether, these rich and detailed results unveil the complex panorama of the trade losses resulting from financial crises.

The rest of this paper is structured as follows. Section II. details the methodology, Section III. describes the data, Section IV. presents the main results, Section V. analyzes their robustness, Section VI. discusses potential channels, and Section VII. concludes the paper.

#### **II. METHODOLOGY**

The causal effect going from financial crises to international trade is likely to be affected by endogeneity, arising from different characteristics between countries that experience or not financial crises,<sup>5</sup> or from reverse causality between trade and financial crises.<sup>6</sup> We tackle these issues using a combined method of impact assessment methodology (IAM) and local projections (LP) à la Jordà (2005), following Asonuma et al. (2016); Forni et al. (2016); Jordà et al. (2016) and Kuvshinov and Zimmermann (2019), which consists of three steps. First, we estimate the likelihood of financial crises (i.e. the propensity score) based on their determinants. Second, we fit an outcome model in which changes in trade flows at each horizon scaled by pre-crisis GDP are explained by some factors. Third, we compute a semi-parametric estimator of the average treatment effect (ATE), namely the Augmented Inverse Propensity Weighted (AIPW), using the predicted propensity scores obtained from the first

<sup>&</sup>lt;sup>5</sup> Tables C.3 to C.5 in A. reveal that countries that experience financial crises present different fundamentals compared with countries that do not.

<sup>&</sup>lt;sup>6</sup> The literature has by now emphasized that trade may lead to financial crises and play an important role in their contagion; see e.g. Krugman (1979); Eichengreen and Rose (1999); Glick and Rose (1999); Forbes (2001) and Ma and Cheng (2005).

stage, and the observed and the potential (predicted in the second stage) values of the change in trade flows. In the following, we describe the LP model and the AIPW estimator.

#### A. Local projection model

LP was extensively used to estimate fiscal multipliers, the effects of fiscal consolidations, and the consequences of financial crises, see e.g. Auerbach and Gorodnichenko (2012a,b); Owyang et al. (2013); Asonuma et al. (2016); Forni et al. (2016); Jordà et al. (2016); Kuvshinov and Zimmermann (2019), and its popularity is supported by several aspects. First, being a flexible, semi-parametric method to estimate dynamic effects, it captures both the direct and indirect (i.e. through changes in fundamentals) effect of financial crises on trade. Second, LP easily accounts for a nonlinear response of trade, which may be potentially at work in our analysis. Third, it can be estimated through standard regression models, and easily combined with IAM. Based on the standard setup in the literature, we estimate the following LP model

$$\Delta y_{i,t+h}^{k} = \Lambda^{k,d,h} D_{i,t}^{d} + \Lambda^{k,b,h} D_{i,t}^{b} + \Lambda^{k,c,h} D_{i,t}^{c} + \theta_{L1}^{k,h} \Delta y_{i,t-1}^{k} + \theta_{L2}^{k,h} \Delta y_{i,t-2}^{k} + X_{i,t+h}^{x} \beta^{k,h} + v_{i,t+h}^{k} (1)$$

for the time-horizon  $h \in [0; 5]$ , where  $\Delta y_{i,t+h}^k = (y_{i,t+h}^k - y_{i,t-1}^k)/GDP_{t-1} \times 100$  is the cumulative change between t - 1 and t + h in 100 times the trade flows of variable k of country *i* scaled by pre-crisis GDP. k denotes exports/imports of agricultural, mining, and manufactured goods, and services.  $D_{i,t}^d, D_{i,t}^b$ , and  $D_{i,t}^c$  are dummies for debt, banking, and currency crises, respectively, equal to 1 at the start of each financial crisis, and to 0 in non-crises years. As such, we focus on the initiation of the crises, and drop all non-starting years of crises to ensure that the counterfactuals include only periods without any crisis. Their effects at each horizon h are captured through  $\Lambda^{k,d,h}, \Lambda^{k,b,h}$ , and  $\Lambda^{k,c,h}$ , respectively,  $\Delta y_{i,t-1}^k$  and  $\Delta y_{i,t-2}^k$  are respectively the change in the trade flows (of trade variable k) one and two years prior to the financial crisis. Finally,  $X_{i,t+h}^x$  is a set of control variables, and  $v_{i,t+h}^k$  is the error term.<sup>7</sup>

<sup>&</sup>lt;sup>7</sup> We include all the dummies of the financial crises at the same time to account for their correlation and avoid an overestimated bias of financial crises. We do not include country -fixed effects as the variables are included as differences.

#### B. The augmented inverse propensity weighted (AIPW) estimator

Our impact assessment considers that financial crises are the treatment variable, and changes in trade flows at each horizon h are the outcome variable. Simplifying the algebra by dropping the indexes k for the different dependent variables, and d, b, and c for financial crises, the average treatment effect (ATE) is defined as

$$ATE = \Lambda^{h} = \mathbb{E}\left[y_{i,t+h}(1) - y_{i,t-1} \middle| D_{i,t} = 1\right] - \mathbb{E}\left[y_{i,t+h}(1) - y_{i,t-1} \middle| D_{i,t} = 0\right]; \forall h$$
(2)

Since  $\mathbb{E}\left[y_{i,t+h}(1) - y_{i,t-1} | D_{i,t} = 0\right]$  is not observable, we use a counterfactual. Under the independence assumption  $\left[y_{i,t+h}^{\phi}(d) - y_{i,t-1}\right] \perp D_{i,t} | Z_{i,t}; \forall h; d \in \{0, 1\}$ , i.e. an independent financial crises allocation of potential outcomes conditional on a set of covariates  $Z_{i,t}$ , we estimate the ATE by comparing trade in countries with and without financial crises conditional on the set of variables  $Z_{i,t}$ .

$$ATE = \Lambda^{h} = \mathbb{E}\left[y_{i,t+h}(1) - y_{i,t-1} \middle| D_{i,t} = 1; Z_{i,t}\right] - \mathbb{E}\left[y_{i,t+h}(0) - y_{i,t-1} \middle| D_{i,t} = 0; Z_{i,t}\right]; \forall h \quad (3)$$

In this study, we use the AIPW estimator that requires estimating two models, namely the treatment and the outcome model. Regarding the former, we estimate a covariate balancing propensity score (CBPS) model for each crisis on variables  $Z_{i,t}$ , and obtain the propensity score for country *i* at time *t* to be in the treated,  $\hat{p}_{i,t} = p_1(Z_{i,t}; \hat{\Psi})$ , and control,  $\widehat{1-p}_{i,t} = p_0(Z_{i,t}; \hat{\Psi})$ , group. Introduced by Imai and Ratkovic (2014), the CBPS model presents several advantages over the traditional logit or probit models: it ensures the perfect balancing of covariates between the treated and control groups, and it limits the bias due to misspecification in the treatment model (see, tables C.3 to C.5). Introduced by Rosenbaum and Rubin (1983), the propensity score is particularly appealing for our analysis to eliminate the biases between the treated and the control group; we use weighting by propensity scores to mimic a situation where financial crises happen randomly.<sup>8</sup> Regarding the latter, the outcome model eq. (1) is estimated separately on both treated and control groups, and we predict the potential outcome  $\hat{\mathbb{E}} [y_{i,t+h} - y_{i,t-1} | D_{i,t} = d; X_{i,t}]; \forall d \in \{0; 1\}$  for the entire

<sup>&</sup>lt;sup>8</sup> Following Imbens (2004) and Cole and Hernán (2008), we truncated the maximum weight, defined by  $\hat{p}_{i,t}^{-1}$  for the treated group and  $(1 - \hat{p}_{i,t})^{-1}$  for the control group, to 10. In the robustness analysis we change the maximum weight to 5 and 20.

sample, based on the characteristics of each group. This provides the potential trade for countries in the treated (control) group if they have not (have) experienced crises, conditional on the set of control variables  $X_{i,t}$ .<sup>9</sup> Following the general expression of the AIPW provided by Lunceford and Davidian (2004), we compute the estimated ATE of financial crises on international trade for h year-horizon as

$$\begin{split} \hat{\Lambda}_{AIPW}^{h} &= \frac{1}{n} \sum_{i} \sum_{t} \left( \left[ \frac{D_{i,t} \left( y_{i,t+h} - y_{i,t-1} \right)}{p_{i,t}} - \frac{(1 - D_{i,t}) \left( y_{i,t+h} - y_{i,t-1} \right)}{1 - p_{i,t}} \right] \\ &- \frac{D_{i,t} - p_{i,t}}{p_{i,t} \left( 1 - p_{i,t} \right)} \\ &\times \left[ \left( 1 - p_{i,t} \right) \widehat{\mathbb{E}} \left[ y_{i,t+h} - y_{i,t-1} \mid D_{i,t} = 1 ; X_{i,t} \right] + p_{i,t} \widehat{\mathbb{E}} \left[ y_{i,t+h} - y_{i,t-1} \mid D_{i,t} = 0 ; X_{i,t} \right] \right] \right) (4) \end{split}$$

This semi-parametric estimator has the distinctive property of being the most efficient doubly robust estimator, namely, it is unbiased when at least the outcome or the treatment model is correctly specified (see e.g. Leon et al., 2003; Imbens, 2004; Lunceford and Davidian, 2004; Tsiatis and Davidian, 2007; Wooldridge, 2007; Kreif et al., 2013). Besides, compared with the inverse propensity weighted (IPW) estimator, it includes an additional adjustment term consisting of the weighted average of the two predicted potential outcomes, which stabilizes the estimator when the propensity scores get close to zero or one, and has expectation zero when either the treatment or the outcome model is correctly specified (see Glynn and Quinn, 2009). Finally, Glynn and Quinn (2009) conclude that the AIPW estimator displays comparable or lower mean square error than competing estimators when the treatment and outcome models are both properly specified and outperforms them when one of these models is misspecified.

#### III. DATA, AND PRELIMINARIES

#### A. Data

Our unbalanced panel covers 38 debt crises, 34 banking crises, and 36 currency crises in 41 emerging countries that experienced at least one of these crises during the period 1980–2018.

<sup>&</sup>lt;sup>9</sup> Following Asonuma et al. (2016); Jordà et al. (2016), and Kuvshinov and Zimmermann (2019), we use a larger set of controls in the treatment model compared with the outcome model; indeed, Lunceford and Davidian (2004) suggests including as many variables as collected in the treatment model.

We focus on emerging countries for several reasons. First, trade has increased more in these countries over the past decades, and represents today a large share of world trade.<sup>10</sup> Second, the way international trade reacts to financial crises depends on the development level and the trade structure; therefore, focusing on emerging countries increases the homogeneity of the effects of financial crises. Third, emerging countries have been much more affected by all types of crises than low-income and developed countries.<sup>11</sup>

Regarding financial crises, data for debt crises come from Reinhart and Rogoff (2009), data for banking crises are from Laeven and Valencia (2018), and data for currency crises are built using the definition of Frankel and Rose (1996). Debt crises are defined as the failure of the government to meet a principal or interest payment on the due date and/or the episodes of post-default debt restructuring. Banking crises are defined as events where there are signs of financial distress in the banking system (as indicated by significant bank runs, losses in the banking system, and/or bank liquidations) and/or banking policy intervention measures in response to significant losses in the banking system. Currency crises are defined as a nominal depreciation of the local currency against trading partners' currencies of at least 25 percent that is also at least a 10 percent increase in the rate of depreciation. Alternative definitions and sources for crises are considered in the robustness analysis.

Trade data on goods come from UN Comtrade, via the World Trade Integrated Solution (WITS)–World Bank, which provides exports and imports at the 3-digit code of the Standard International Trade Classification (SITC). We classify this disaggregated data into three types of goods, namely agricultural, mining, and manufactured goods, following the WTO classification. Compared with most studies that focus exclusively on the export of goods, we also consider the import of goods, which can improve firms' productivity and export competitiveness. In addition, we equally consider the trade of services (data comes from United Nations Conference on Trade and Development–UNCTAD), which represents as

<sup>&</sup>lt;sup>10</sup> On the export side, the emerging economies' share trade has increased from around 19 percent of world exports in the early 1990s to close to 40 percent recently. On the import side, the share has increased

<sup>&</sup>lt;sup>11</sup> Indeed, advanced economies mostly experienced banking crises, and low-income countries mostly experienced debt crises. Only emerging market countries experienced debt, banking, and currency crises. Given the data limitations, we can therefore analyze the trade losses of all three types of crises for emerging countries only.

large as one-quarter of total exports and imports in our sample; besides, since they mostly concern intermediate inputs,<sup>12</sup> their decrease may have strong (negative) effects on the economy. Total trade is obtained by aggregating the four categories of goods and services (agriculture, mining, manufacturing, and services), and deflated by export/import prices.<sup>13</sup> Finally, we consider two sets of control variables in line with the existing literature that we extend further. The first set is used in the treatment model and includes those variables that influence the likelihood of financial crises and are correlated with international trade, namely, following the related literature: (i) number of past-5 years financial crises except the one of interest, (ii) intensity of conflicts, (iii) log of Real GDP, (iv) log of public debt to GDP, (v) log of domestic credit to GDP, (vi) log of liquid liabilities to GDP, (vii) net capital inflows to GDP, (viii) log of foreign reserves to GDP, (ix) current account to GDP, (x) financial openness index, (xi) log of trade openness to GDP, (xii) terms of trade growth, (xiii) floating exchange rate regime dummy, (xiv) government accountability index, (xv) corruption index, (xvi) trading partners' growth, and (xvii) US interest rate on government's securities. These predictors of financial crises are included one-year lagged. The second set of control variables is used in the outcome model eq. (1) to predict the changes in trade at each horizon h for each type of good and for services, namely: (i) the change of trade flows one and two years before the onset of financial crises, (ii) other crises, and (iii) the exchange rate regimes at horizon h.<sup>14</sup> The sources and summary statistics are provided in Appendix I.C. and Appendix II., respectively.

# B. A preliminary look at the data

In this section, we discuss three features of financial crises: their occurrence, the connections between different types of financial crises, and their link with international trade.

 $<sup>^{12}</sup>$  According to Borchert and Mattoo (2010), trade in services accounts for over one-fifth of global cross-border trade, and up to one-third of exports in some large countries (including US or India); and Miroudot et al. (2009) conclude that roughly three-fourth of trade in services in OECD are intermediate inputs from 20 to 35 percent over the same period.

<sup>&</sup>lt;sup>13</sup> The pairwise correlations between our aggregate trade dataset with existing datasets on aggregate trade (UN Comtrade or IMF Direction of Trade Statistics) are higher than 0.95. This indicates that our data are properly compiled using disaggregate trade.

<sup>&</sup>lt;sup>14</sup> In the section devoted to the transmission channels we consider additional variables.

# **B.1.** The occurrence of financial crises

The evolution of financial crises during the period 1980–2014 is summarized in Figure 1. According to (A), all types of crises are recurrent in emerging markets and occurred by clusters (e.g., the debt crises in Latin America and Africa in the 1980s, the banking and currency crises in Asia, Latin America, and Eastern Europe of the 1990s).<sup>15</sup> Moreover, as shown by (B), crises are long-lasting, and emerging markets suffered debt crises (especially in the 1980s and 1990s) more often than banking and currency crises. Finally, (C) suggests that financial crises strike the economies by clusters and spread within the regions: countries in Africa, Latin America, and Middle-East are more affected by debt crises than countries in other regions, countries in Latin America, Europe, and Central Asia, and East Asia and Pacific are more affected by banking crises, and countries in Europe, Central Asia, and Latin America are more affected by currency crises.





Notes: Sample: 1980–2014. Authors' calculations based on data and definitions from Frankel and Rose (1996); Reinhart and Rogoff (2009) and Laeven and Valencia (2018), World Development Indicators.

## **B.2.** The connections between financial crises

We analyze potential connections between financial crises using the standard nonparametric Kaplan-Meier estimator. The main message of fig. 2 is that financial crises of a new type occur significantly quicker after a crisis of another type: (i) after a debt crisis hits a country, a banking crisis follows in one-quarter of cases in five years, and a currency crisis in one year; (ii) after a banking crisis, a debt or currency crisis follows in one-quarter of cases in two

<sup>&</sup>lt;sup>15</sup> The number of crises follows a downward trend since the beginning of the 2000s (the Great moderation period), and the 2008–09 contraction has been characterized by less incidence of debt, banking, and currency crises in emerging countries compared to a dvanced economies.

years; (iii) after a currency crisis, a debt crisis follows in one-quarter of cases in two years, and a banking crisis in four years. Consequently, the takeaway for the design of our empirical analysis is that when estimating the effect of a crisis one should systematically control for other crises to avoid overestimating its trade losses.

Figure 2: Survival models of the duration between the onset of different financial crises

(A) Probability of avoiding crises following a debt crisis











(C) Probability of avoiding crises following a currency crisis

Notes: The figure plots the estimated Ka plan-Meier survival functions for the duration between the start of one type of crisis and the start of another type of crisis. The y-axis denotes the compound probability that countries avoid crises. From the top row to the bottom row, we describe the probability of avoiding crises on the y-axis following debt, banking, and currency crises, respectively. The bands are 95 percent confidence intervals. Authors' calculations based on data and definitions from Frankel and Rose (1996); Reinhart and Rogoff (2009) and Laeven and Valencia (2018), World Development Indicators.

#### **B.3.** Financial crises and international trade

As a foretaste of the potential trade losses from crises, fig. 3 plots the cumulative change of trade flows from the year before the onset of each crisis to 5-year ahead, scaled by pre-crisis GDP. The overall picture supports the collapse of international trade. Total exports and imports decline sharply during all types of financial crises (for example, exports and imports decline respectively by between 11 and 14 percentage points of pre-crisis GDP following all types of crises), mainly driven by the contraction of trade in manufactured goods, followed by the one in services, mining goods, and agricultural goods. In sum, the trade losses from financial crises seem important. However, various issues may lead to an overestimation of these losses. Consequently, we develop in the following a formal econometric analysis to provide a robust estimation of the trade losses from financial crises. In addition, Figure 3 shows that trade in emerging countries is dominated by manufactured goods, followed by trade in services, trade in mining goods, and finally trade in agricultural goods.



Figure 3: Evolution of the average international trade in financial crises

Notes: The figure plots the dependent variables of our empirical models for the horizon h=5. The dependent variables are 100 times the cumulative change of agricultural, mining, manufacturing, services, and total exports and imports relative to the year before the onset of the crisis for years 1-5 after the onset of the crisis, scaled pre-crisis GDP. The dependent variables are plotted during debt, banking, and currency crises, and in the absence of crises. The first (second) row refers to exports (imports).

# **IV. RESULTS**

#### A. Estimation of propensity scores

As previously indicated, the first step of our analysis is devoted to the estimation of propensity scores (PS) for each crisis. We use the CBPS model that ensures a perfect

balancing of covariates between countries with and without financial crises by using an optimization process.<sup>16</sup> Based on this model, fig. C.2 in Appendix III. illustrates the smooth kernel density of the distribution of the PS for the treated and control groups, for each financial crisis. Given the high classification power, countries in the treated (control) group receive a high (low) likelihood of financial crises, while countries in the treated (control) group with PS close to zero (one) receive higher weights. Besides, fig. C.2 also shows considerable overlaps between the distributions of PS for the treated and control groups; thus, we weighted the covariates using PS.<sup>17</sup> As shown by tables C.3 to C.5, there are many significant differences between countries with and without countries in the unweighted sample, with less favorable macroeconomic, external and institutional conditions in countries hit by crises. More importantly, we reveal that, according to the criteria of Rubin (2002), weighting the covariates by the estimated PS obtained from the CBPS model perfectly eliminates the differences in covariates between the treated and the control group (which is less true for the traditional pooled probit model, for example). Since our weighting strategy mimics a situation where financial crises occur randomly, it allows us to properly identify the ATE of crises.

## **B.** Financial crises and aggregated trade

We first focus on aggregated trade, namely exports and imports, and then look at the trade balance. The ATE-AIPW estimates of the effects of financial crises on aggregated exports and imports are reported in table D.7, and their cumulative impulse responses are depicted in Panel I and II of fig. 4, respectively.

<sup>&</sup>lt;sup>16</sup> In a nutshell, estimations show that: the likelihood of currency crises is increasing with the occurrence of past-5 years debt and banking crises and decreasing with the level of development. Debt crises are more likely when the level of public debt, financial openness, and the US interest rate increase. Banking crises are more likely when the levels of domestic credit and trading partners' growth increase and less likely when the level of liquid liabilities increases. The likelihood of debt and currency crises is decreasing with the level of foreign reserves and increasing in countries with floating exchange rate regimes. Debt crises are less likely when trading partners' growth increases. Currency crises are less likely when trade openness increases. Besides, standard diagnostic tests reported at the bottom of the table show that our models present a large classification power (above 94 percent) and Area Under Receiver Operating Characteristic curve (around 0.8 or more). For comparison, we also estimated a pooled model (reported in table D.6).

<sup>&</sup>lt;sup>17</sup> Following Imbens (2004) and Cole and Hernán (2008), we truncate the maximum weight to 10 to reduce the influence of outliers on our ATE estimates. In the robustness analysis, we use a maximum weight of 5 and 20.

#### **B.1.** Exports

The findings show that all types of financial crises reduce exports both on impact and cumulated over five years in countries affected by crises compared with those unaffected. As shown by Panel I of fig. 4, export losses are relatively small just after the occurrence of crises (except for currency crises), but then intensify and follow an L-shape. Exports' recovery from crises, i.e. return to pre-crisis level relative to GDP, if any, is a slow and uncertain process. The magnitude of this negative effect over 5 years is economically meaningful and equal to 5.6 percentage points (pp.) of pre-crisis GDP for debt crises, 7.7 pp. for currency crises and 8.9 pp. for banking crises.

#### **B.2.** Imports

Our findings confirm that imports are equally negatively affected by financial crises and do not recover over five years. As shown by Panel II of fig. 4, all types of crises exert significantly negative cumulated effects from the beginning of financial crises to five years later. Compared to exports, the magnitude of the adverse effects of financial crises on imports is more important and estimated at 9.1 pp. for currency crises, 11 pp. for debt crises, and 14 pp. for banking crises.

#### **B.3. Trade balance**

We look at the losses from financial crises on the trade balance by comparing their losses on exports and imports (see the bottom of table D.7 for the mean difference tests). We find that the trade balance increases for all years in the aftermath of debt and banking crises by more than 5 pp. of pre-crisis GDP, due to the stronger decrease in imports compared with exports. We find similar results for currency crises for the years 1–4 after the crises hit. However, currency crises are not found to significantly affect the trade balance the year 5 after their burst. Indeed, countries following crises will tend to reduce significantly imports than exports to restore or maintain their external viability.<sup>18</sup>

<sup>&</sup>lt;sup>18</sup> Indeed, debt crises are directly related to external via bility, as they describe situations where governments face difficulties to service or amortize their (external) debt. Similarly, currency crises may jeopardize external via bility through balance sheet effects, and in such circumstances, imports become more expensive. For banking crises, the linkage with external viability is less direct. We believe that import contraction to preserve or restore external via bility following banking crises could happen for two reasons. First, the credit crunch will compress consumptions, investments, exports (since it requires a lot of financing), and therefore the import



#### Figure 4: Cumulative trade losses over five years after financial crises

Notes: The Conditional cumulative change of total exports and imports from the start of the various crises (debt, banking, and currency). Each colored path shows local projections of the cumulative change relative to the year before the onset of the crisis for years 1-5 after the onset of the crisis. These losses describe the difference in the change of trade between the treated and control groups after re-randomization using the predicted propensity scores. The thinner and thicker bands are 90 and 95 percent confidence intervals, respectively. The top (bottom) row refers to the losses for exports (imports).

Summing up, at the aggregated level we find that financial crises reduce both the exports and imports of countries over five years, consistent with previous empirical findings. Nevertheless, while some studies, see e.g. Abiad et al. (2014) and Kuvshinov and Zimmermann (2019), find no effect of debt and banking crises on exports, we reveal that exports sharply decline following these financial crises in line with Ma and Cheng (2005) and Asonuma et al. (2016). Besides, relative to Ma and Cheng (2005), we find that currency crises equally decrease exports, suggesting that the volume effect stemming from a gain of

contents of each. If exports collapse and trade or current account deficit is increasing, imports become more challenging to finance. Countries in such a situation may reduce imports to alleviate the losses and a void the banking crisis to spill into other crises. Second, governments may decide to bailouts banks and therefore increase their exposure to the underperforming banking sector. Sometimes, they do so by increasing their deficit, resulting in a twin deficit altering the confidence of creditors. As a result, "private" adjustments may be needed by reducing imports.

competitiveness due to the local currency depreciation does not suffice to overcome the negative price effect. Moreover, currency crises tend to be associated with sudden stops in capital inflows which are necessary to trade (see, Bordo, 2006; Reinhart and Rogoff, 2009; Mendoza, 2010).<sup>19</sup> Finally, there are several differences between crises: (i) banking crises exert the highest negative effect on both exports and imports, (ii) debt and banking crises induce a higher reduction in imports than exports, which increases the trade balance; (iii) currency crises have comparable losses on exports and imports in the year 5 after they occur. Keeping these results in mind as a benchmark, we look next at the effects of financial crises at a more disaggregated level.

## C. The sectoral trade losses from financial crises

We explore the losses from financial crises on the trade of agricultural, mining, and manufactured goods, and services. As detailed in the introduction, this is, as far as we are aware, the first analysis that disentangles the aggregate trade losses from financial crises on all categories of goods and services traded. The estimated cumulative ATE over five years for exports and imports are reported in table D.7, and Panel I and II of fig. 5 provide a graphical illustration.<sup>20</sup>

#### C.1. Agricultural trade

We find that both exports and imports of agricultural goods are the least affected by financial crises. Countries that experience debt crises present larger exports of agricultural goods by 2.2 pp. of pre-crisis GDP over five years, compared with countries unaffected by crises. In contrast, exports of agricultural goods are left unchanged in the aftermath of currency crises or significantly decrease by 1.5 pp. over five years after the banking crises. Regarding agricultural imports, they are significantly reduced by between 0.6 and 1.5 pp. for all types of crises. These findings suggest that trade in agricultural goods exhibits greater resilience during financial crises and can even intensify, which may signal a substitution effect in favor

<sup>&</sup>lt;sup>19</sup> Indeed, currency crises reduce financing for firms and have a strong negative impact on FX borrowers. An example is the 1997 currency crisis in Indonesia. Many export firms had dollar-denominated short-term debt. When the crisis hit, foreign banks refused to roll over these loans. It ensued massive bankruptcies among exporters, which led to a drop in exports.

<sup>&</sup>lt;sup>20</sup>To simplify the exposition, we focus more on the cumulated losses over five years (the dynamics of the losses from the onset of the financial crises until five years ahead are also presented).

of agricultural goods. Such an effect may be supported by the relatively lower income elasticity of demand for agricultural goods, which may also require less external financing to be produced and traded.

## C.2. Mining trade

We reveal that, except for the positive effects of debt crises, the other financial crises significantly reduce the exports of mining goods. Indeed, five years after debt crises, exports of mining goods increase by 1.1 pp. of pre-crisis GDP. In the aftermath of banking and currency crises, exports of mining goods decrease both on impact and over the five years to reach a collapse of 1.6 pp. and 2.9 pp., respectively. After all types of crises hit the emerging countries, imports of mining goods over five years are also significantly reduced by 1.9 pp. for debt crises and 3 pp. for both banking and currency crises. Overall, the collapse of mining goods in the aftermath of financial crises is higher than the one of agriculture goods and sometimes lower sometimes higher than the one of trade in services, but more often largely lower than the collapse of the trade in manufactured goods.

Figure 5: Cumulative trade losses over five years after financial crises, total and sectoral level



Notes: Robust standard errors clustered at the country-level in parentheses. AIPW estimates. The dependent variables are 100 times the cumulative change of agricultural, mining, manufacturing, and services exports and imports relative to the year prior to the onset of the crisis for years 1-5 after the onset of the crisis, scaled precrisis GDP. Accumulated losses over five years. Maximum weights truncated at 10.

#### C.3. Manufacturing trade

Our results point to a systematic and large reduction of the trade in manufactured goods in the aftermath of financial crises. The losses from financial crises on manufacturing exports are fairly important over five years and correspond to 6.1, 4 and 2.3 pp. of pre-crisis GDP for debt, currency, and banking crises, respectively. They are even higher for imports and equal to 4.6, 5.4, and 7 pp. for currency, debt, and banking crises, respectively. Besides, we note that except for the effects of banking crises on manufacturing exports, the collapse of manufactured trade contributes the most to the total drop of international trade in the aftermath of financial crises in emerging countries. These contributions equal to 107, 51, and 26 percent of the total collapse of exports for debt, currency, and banking crises, respectively, and around 50 percent of the total collapse of imports for all types of crises. Moreover, as manufacturing imports fall more than manufacturing exports, the adverse effects of financial crises on the trade in manufactured goods are driven by the increase in overall trade balance highlighted for debt and banking crises. These findings are consistent with previous microlevel studies using data of manufacturing industries, including Iacovone and Zavaka (2009); Amiti and Weinstein (2011); Minetti and Zhu (2011); Chor and Manova (2012); Manova (2013); Zymek (2012) on the disruption channel, and Levchenko et al. (2010); Bricongne et al. (2012); Behrens et al. (2013); Eaton et al. (2016) on the income channel. However, despite revealing large effects of the occurrence of financial crises, the analysis of the trade of manufactured goods leaves unexplained a fairly large proportion of the trade losses at the aggregated level.

#### C.4. Services trade

Finally, similar to manufacturing trade, services trade is significantly reduced by all types of financial crises. We find that the losses from financial crises on trade in services are larger for exports and following banking crises; the losses reach 3.5 pp. of pre-crisis GDP over five years, or a contribution of 39 percent of the total export collapse. Also, exports contract in the aftermath of debt and currency crises by 2.9 and 0.9 pp. over five years. We find similar patterns for imports of services that are reduced by 2.6 pp. over five years following debt and banking crises and 0.9 pp. following currency crises. Therefore, compared with studies that focus on the trade of services following the global financial crises of 2008–09 (see e.g., Borchert and Mattoo, 2010; Ariu, 2016), we find that trade in services may also decline

during crises. However, the trade of services presents a greater resilience compared with the trade of manufactured goods, except in the aftermath of banking crises, in line with the hypotheses of lower-income elasticity of demand and lower dependence on external financing.

To summarize, our sectoral analysis reveals that manufactured traded goods are the most affected in terms of magnitude in the aftermath of financial crises. However, the impact of financial crises on the other types of traded goods and services is far from being negligible. Trade in both mining goods and services also declines following several types of financial crises, while trade in agricultural goods seems to benefit from a possible substitution effect, particularly following debt crises. In the following sections we discuss the robustness of our findings and emphasize the channels through which financial crises affect trade.

### V. ROBUSTNESS

We further investigate the robustness of our findings using a wide variety of alternative specifications, including various samples, maximum weights in the treatment models, sources and definitions of crises, and econometric estimators.

#### A. Alternative samples

# A.1. The trade losses from combined financial crises

The analysis performed so far focused on the effect of each financial crisis when controlling for the other types of crises in the prediction of the potential outcome and the computation of propensity scores. Given that financial crises seem to be connected (as shown previously), we now look at the trade effects of both combined and individual crises. Following Glick and Hutchison (2001) and Hutchison and Noy (2005), we define a combined crisis as a crisis occurring in a two-year band around a financial crisis of another type, i.e. a combined crisis occurs at time t if another type of crisis occurs in any of the years spanning between t - 2and t + 2. Similarly, an individual crisis is a crisis that occurs without any other crises in the years around.

The results reported in table D.8 and fig. D.3 show that combined financial crises trigger more significant and of a higher magnitude aggregated and sectoral trade losses, except for imports following debt crises. In addition, as shown by table D.9 and fig. D.4, the total and

sectoral trade losses from individual financial crises are quite lower (more for exports than imports), except for imports following debt crises. Consequently, combined crises unveil more severe trade losses than individual crises, and studies that focus exclusively on a type of crisis without controlling for the others may suffer from an overestimation bias. In addition, our benchmark findings remain valid.

# A.2. Dropping the post-GFC period

We drop the post-GFC period (from 2008 onwards) that incorporates the great trade collapse. The results are reported in table D.10 and fig. D.5. Removing this period leads to comparable results for the total and sectoral export losses from banking crises and currency crises, while the losses from debt crises are significantly reduced. In addition, the trade losses from financial crises on total and sectoral imports present a lower magnitude. Consequently, although the great trade collapse seems to have influenced the magnitude of the trade losses in some cases, our main results remain valid.

# **B.** Alternative maximum weights set in the treatment models

Compared to the maximum weight of 10 for our treated and control groups used in the benchmark model, we now use a maximum weight of 20 in table D.11 and fig. D.6 and 5 in table D.12 and fig. D.7. The choice of lower weights reduces the influence of country -year observations in the treated (control) group that receive a low (high) likelihood of financial crises. Estimations confirm the robustness of the significance and the size of the effect of financial crises on total and sectoral trade. In addition, the use of a maximum weight of 20 is associated with a somewhat lower magnitude of the trade losses only for some types of goods and financial crises. Overall, our main findings still hold when using alternative maximum weights, as recommended by Imbens (2004) and Cole and Hernán (2008).

# C. Alternative sources and definitions of crises

Following Cruces and Trebesch (2013), debt crises now exclusively capture preemptive and post-default debt restructurings with private creditors (i.e. we drop restructurings with official creditors). Banking crises have the same definition but now come from the dataset of Reinhart and Rogoff (2009) (instead of Laeven and Valencia, 2018). Currency crises are redefined based on Reinhart and Rogoff (2009), namely by at least a 20 percent nominal depreciation of the local currency against the US dollar. Based on these new sources and

definitions, our data now involves 41 debt crises, 44 banking crises, and 69 currency crises. Estimations reported in table D.13 and fig. D.8 show that, aside from lower trade losses for total and sectoral imports following debt and currency crises, our main findings still hold.

# **D.** ATE-IPW estimator

Moving away from the Augmented Inverse Propensity Weighted (AIPW) estimator, we use the popular Inverse Propensity Weighted (IPW) estimator. The results presented in table D.14 and fig. D.9 are, aside from a lower magnitude especially for import trade losses, consistent with our main findings. Overall, this section confirms the robustness of our findings. Consequently, the next section is devoted to the analysis of the channels through which financial crises exert a negative effect on trade.

#### VI. CHANNELS

The existing literature on the channels through which financial crises impact international trade can be summarized into demand-side and supply-side factors. First, the demand-side argument sustains that the fall in income following crises hurts the demand of traded goods and services, especially in the aftermath of GFC (see, e.g. Freund, 2009; Levchenko et al., 2010; Bems et al., 2011; Bricongne et al., 2012; Behrens et al., 2013; Eaton et al., 2016; Abiad et al., 2014; Altomonte et al., 2014; Ariu, 2016). In this case, financial crises will differently affect the trade of agricultural, mining, and manufactured goods, and services, given their different income elasticity and degree of vertical linkages through global value chains. This channel may be more pronounced for imports and during times of generalized financial turmoil. Second, the supply-side argument suggests that financial crises are associated with significant reductions in the availability of external and trade finance (see, e.g. Iacovone and Zavaka, 2009; Amiti and Weinstein, 2011; Minetti and Zhu, 2011; Chor and Manova, 2012; Manova, 2013; Zymek, 2012). Consequently, financial crises will trigger different losses on the types of traded goods and services, given their different external financial needs.

Moving beyond this usual taxonomy, we believe that the two traditional channels can be supplemented by a third channel, namely the structural channel of financial crises on trade. We follow Beck (2002) and the standard assumption in international trade theory to assume that, unlike agricultural and mining goods, manufactured goods exhibit increasing returns to scale. Moreover, these products are relatively more credit-intensive, vertically integrated into global value chains, and their income elasticity is also higher, making them more vulnerable to financial crises. In addition, trade in services is mainly intermediate inputs (as shown by Miroudot et al., 2009), and they may require higher external finance compared to primary goods; therefore, they may also suffer more from financial crises. In contrast, countries that are specialized in the export of manufacturing goods or are diversified in terms of exports and/or partners may have a stronger resilience to crises, making total trade and the trade of manufactured goods to be less disrupted by crises (see also, Romeu and da Costa Neto, 2011; Abreha et al., 2020). Therefore, the structural channel is likely to capture two opposite effects: the vulnerability and the resilience of trade, and our estimations aims at identifying which one of them is dominant.

To assess the potential role of the different channels in shaping the trade costs of financial crises, we split our initial dummies of financial crises in two identical parts, along with the variables used as proxies for the channels. We use the median of these variables at the start of each financial crisis to have enough observations for both groups. First, we proxy the structural channel by the share of manufactured exports in total exports, an export diversification index, and a trading partners diversification index measured the year before the crises. Second, we proxy the demand-side channel by the evolution of trading partners' growth rate over the five years following crises. Third, we proxy the supply-side channel by the evolution of financial development, gross capital inflows, and investors' credit rating risks over the five years following crises.<sup>21</sup> The evolution of the variable x over the five years following crises is computed as

$$x_{t+5,t+1} = \frac{1}{5} \sum_{n=0}^{5} (x_{t+n} - x_{t+1})$$

As in the benchmark model, we estimate treatment models for the likelihood of financial crises, as well as the outcome models for the financial crises, above and below the median of

<sup>&</sup>lt;sup>21</sup> Therefore, we can identify financial crises with and without a higher share of manufacturing exports, export diversification, trading partners diversification for the compositional and structural channel; financial crises with or without a higher trading partners' growth for the demand-side channel; financial crises with or without a higher increase of financial development, gross capital inflows, and investors' credit rating risks for the supply-side channel.

the channel variables, separately. Subsequently, we compute the ATE-AIPW estimates of the effect of financial crises above and below the median of the channel variables. For simplicity, our interpretations focus on the 5-year cumulated effects of financial crises.

#### A. The structural channel

We analyze the trade losses from financial crises in countries with a high and low share of manufacturing exports the year before the beginning of crises, in order to capture the differentiated effects of financial crises in countries with different export structure. Estimations reported in fig. D.10 and tables A.15a to A.15c show that total, manufacturing, and services exports and imports fall more after crises in countries with a lower (pre-crisis) share of manufacturing exports. In addition, the trade in agricultural and mining goods displays similar patterns across the two groups of countries. Consequently, countries with a higher share of manufacturing exports are more resilient to financial crises: in these countries, the resilience effect dominates the vulnerability effect. Financial crises act as an impediment to structural transformation for countries relying on primary goods, and reinforce their comparative advantage in primary goods by disrupting more their manufacturing and services trade structure.<sup>22</sup>

Second, we investigate the role of export diversification in shaping the trade losses from financial crises. To do so, we create two groups of financial crises with high and low export diversification the year before crises. Estimations presented in fig. D.11 and tables A.16a to A.16c reveal that financial crises generally lead to higher contraction of total, manufacturing, and services trade in countries with lower export diversification. These contractions are driven by the fall of manufacturing trade, except for exports following banking crises. Therefore, countries with a more diversified export structure will suffer less from financial crises, i.e. diversification strengthens the resilience of international trade to financial crises.

Third, we study the effects of financial crises in countries with high and low trading partners' diversification the year before crises. By doing so, we check whether having a diversified number of trading partners' helps alleviating the trade losses from financial crises.

 $<sup>^{22}</sup>$  Note that our benchmark results, involving a total trade collapse driven by the fall of manufacturing and services trade, remain valid.

Estimations reported in fig. D.12 and tables A.17a to A.17c show that, except for banking crises, countries with more trading partners experience a lower adverse effect on their trade in the aftermath of debt and currency crises; thus, diversifying trading partners may help to significantly reduce the trade losses from financial crises, and increase the resilience of trade to crises.

Overall, the proxy variables show that the structure of trade, its diversification in terms of exported products, and trading partners matter for the losses from financial crises on trade, and the resilience of trade. We find that trade is more reduced in countries with a lower share of manufacturing exports, diversified exported products, and trading partners. These findings sustain that financial crises may act as an impediment to structural transformations, as they hurt more manufacturing exports in countries where the share of manufacturing exports is relatively lower. Besides, by diversifying their exports and partners, countries will increase their resilience to financial crises.

#### B. The demand-side channel

We explore the demand-side channel using as a proxy the trading partners' growth. We identify two sets of financial crises with high and low trading partners' growth. We expect higher trading partners' growth to be negatively associated with the reduction of both exports and imports, since the contraction of income may be lower in this case. Estimations reported in fig. D.13 and tables A.18a to A.18c confirm that, when associated with higher trading partners' growth, financial crises have either a milder or no adverse effect on international trade, except for banking crises. In particular, no effect is found for debt crises on either exports or imports, because of a large increase of agriculture and mining exports that offsets the collapse of manufacturing and services trade, and a small fall of agriculture and services imports that is compensated by the small increase of mining imports. In the aftermath of currency crises, the higher reduction of exports and imports in countries with lower trading partners' growth is driven by the fall of all types of goods and services, except for agriculture exports. In contrast, banking crises lead to similar or slightly higher trade losses when associated with higher trading partners' growth.

In sum, financial crises associated with a lower demand for goods and services from trading partners will have more adverse trade losses; at the global level, such dynamics may result into an unprecedented collapse of international trade, as the one witnessed in the post-GFC period.

# C. The supply-side channel

We relate the supply-side channel to the availability of external financing, which is particularly needed during periods of financial turmoil. First, we look at the credit channel using the evolution of financial development in the aftermath of financial crises, by distinguishing between crises associated with and without a high increase in financial development. Estimations presented in fig. D.14 and tables A.19a to A.19c suggest all types of financial crises associated with a low increase (or a contraction) of financial development lead to a higher decline of trade. These findings reinforce the idea that financial crises drive the collapse of trade because of their disruptive effects on the monetary and financial sector.

Second, aside from domestic financial development, international trade also depends on the ability to access external or trade credit from other countries, or attract foreign direct investments; besides, financial crises are very often associated with sudden stops or capital reversals (see, e.g. Bordo, 2006; Reinhart and Rogoff, 2009; Mendoza, 2010). Therefore, we investigate the potential role played by the evolution of gross capital inflows in shaping the dynamics of the trade losses from financial crises. Estimations shown in fig. D.15 and tables A.20a to A.20c confirm that all types of financial crises associated with a large reduction of gross capital inflows generate a stronger reduction of total and sectoral trade compared to crises with milder reduction (or increase) in gross capital inflows. This trade reduction trade is driven by the fall of manufacturing exports for debt and currency crises, service exports for banking crises, and manufacturing imports for all crises.

Finally, we look at the evolution of investors' credit ratings risks as a proxy of the international financial conditions and the losses from borrowing. Estimations presented in fig. D.16 and tables A.20a to A.20c show that, when associated with a higher deterioration of investors' sentiment, financial crises mostly trigger a detrimental effect on total and sectoral trade, compared with crises associated with a lower reduction (or increase) in investors' credit ratings risks.

Overall, the supply-side channel influences the way financial crises shape the dynamics of international trade. When associated with a deterioration of the domestic financial development and external financial conditions, and sudden stops, financial crises reduce international trade, mainly acting through manufacturing and services trade.

#### VII. CONCLUDING REMARKS

This paper assesses the sectoral trade losses from financial crises. Compared with the existing literature that mainly focuses on the total trade of goods and, in the context of the recent great recession, on manufacturing trade, we look at the response of different types of trade (i.e. agricultural, mining, and manufactured goods, and services) following various types of financial crises (i.e. debt, banking, and currency crises). To this end, we draw upon a methodology that combines impact assessment and local projections to capture a causal dynamic effect running from financial crises to the trade activity.

While we confirm that aggregate exports and imports significantly decrease following most financial crises, our analysis reveals interesting patterns at the disaggregated level. Manufacturing goods are the most affected by financial crises. However, the impact of financial crises on the other types of traded goods and especially on services is far from being negligible. Trade in both mining goods and services also declines following several types of financial crises, while trade in agricultural goods seems to benefit from a possible substitution effect particularly following debt crises. When looking at the losses from combined crises, we find that they exert a significant and higher decline of trade, compared to crises occurring without any other crisis in the years around. These findings are robust to a wide variety of alternative samples, maximum weights in the treatment models, sources and definitions of crises, and estimators.

In addition, we provide new evidence that financial crises negatively affect trade through three channels: a structural, a demand-side, and a supply-side channel. First, regarding the structural channel, we find that financial crises may act as an impediment of structural transformation, as they hurt more manufacturing exports in countries where the share of manufacturing exports is relatively lower; besides, by diversifying their exports and partners, countries may increase their resilience to financial crises. Second, regarding the demand-side

channel, financial crises associated with a lower demand of goods and services from trading partners experience higher trade losses. Third, regarding the supply-side channel, when associated with a deterioration of the domestic financial development and external financial conditions, and sudden stops, financial crises induce higher international trade losses. Policy implications from our findings are that diversification of exports, trading partners, and improvements of financial development increase the resilience of trade to financial crises. Moreover, policies needed to reduce the occurrence of financial crises and increase creditors' confidence, i.e., sound macroeconomic policies, macroprudential policies, multilateral policies coping with the contagion of crises, may help to alleviate the trade losses from financial crises, specifically in countries with lower industrialization where crises are found to impede structural transformations.

Consequently, our paper unveils the complex panorama of the trade losses from financial crises. Through illustrating the differentiated effects of various financial crises on sectoral and total international trade, and by investigating the channels through which these effects transit, our analysis contributes to the general understanding of the trade effects of financial crises, and provides insightful support for the design and implementation of policies aimed at coping with these effects.

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#### **APPENDIX I. SAMPLE, VARIABLES DESCRIPTIONS AND SOURCES**

#### A. Financial crises since 1980 in all emerging countries

Figure A.1: Sample of countries and the starting date of the various financial crises since 1980



Notes: The graph reports the starting date of the various crises since 1980 in all emerging countries.

#### B. List of countries included in regressions analyses

Albania, Algeria, Argentina, Armenia, Bolivia, Brazil, Chile, China, Colombia, Costa Rica, Croatia, Dominican Republic, Ecuador, Egypt, Arab Rep., Gabon, Georgia, Guatemala, Hungary, India, Indonesia, Jamaica, Jordan, Lebanon, Mexico, Morocco, Pakistan, Panama, Paraguay, Peru, Philippines, Poland, Romania, Russian Federation, South Africa, Sri Lanka, Thailand, Tunisia, Turkey, Ukraine, Uruguay, Venezuela.

# C. Data description and sources

# Table A.1: Data sources and descriptions

Variables	Sources
Trade variables	
International trade in goods (agricultural, mining	World Integrated Trade Solution (WITS) code at 3-digit SITC classification
International trade in services	United Nations Conference on Trade and Development (UNCTAD)
Cumulative change of trade variables from the	Authors' coloulation based in WITS and INCTAD
onset of financial crises to years 1-5 after crises,	Authors calculation based in withs and UNCTAD
Financial crises	
Debt crises	Reinhart and Rogoff (2009) and Cruces and Trebesch (2013)
Banking crises	Laeven and Valencia (2018) and Reinhart and Rogoff (2009)
Currency origos	Authors' calculation based on exchange rate taken from Penn World Tables 9.0
	and Bruegel datasets, and using the definition in Frankel and Rose (1996) and
Other variables	
Intensity of conflicts	Major episodes of political violence (MEPV)
Log of real GDP	World Development Indicators
Log. of public debt to GDP	Global Debt Database of the IMF (Mbaye et al. (2018))
Log. of domestic credit to GDP	World Economic Outlook, IMF, and World Development Indicators, WB
Log. of liquid liabilities to GDP	Beck and Demirguc-Kunt (2009)
Net capital inflows to GDP	Authors' calculations based on the Balance of Payments and International
Not capital liniows to ODI	Investment Position dataset from the IMF
Gross Capital inflows (% of GDP)	Authors' calculations based on the Balance of Payments and International
Gloss Capital liniows (% of GDI )	Investment Position dataset from the IMF
Log. of foreign reserves to GDP	World Economic Outlook, IMF, and World Development Indicators, WB
Current account to GDP	World Economic Outlook, IMF, and World Development Indicators, WB
Financial openness index	Chinn and Ito (2008)
Log of trade openness to GDP	World Development Indicators
Terms of trade growth	Penn World Tables 9.1
Floating exchange rate regime	Authors' calculation based on Ilzetzki et al. (2017)
Government accountability index	Varieties of Democracy (V-Dem) project
Corruption index	Varieties of Democracy (V-Dem) project
Trading partners' growth	Global Economic Environment, IMF
US interest rate on gov.'s debt securities	Bank of International Settlements
Exports diversification index	Export Diversification and Quality database, IMF
Trading partners diversification index	Export Diversification and Quality database, IMF
Financial development index	Financial development index from IMF
Investors' credit ratings risks	Country Credit Ratings from the IMF

# APPENDIX II. SUMMARY STATISTICS

# Table B.2: Summary statistics for major variables

	Obs.	Mean	Sd	Min	Max
Cumulative change of total exports over 5 years (% of pre-crisis GDP)	766	19.690	20.795	-18.277	124.255
Cumulative change of agricultural mining exports over 5 years (% of pre-crisis GDP)	766	2.646	3.923	-2.543	44.719
Cumulative change of mining exports over 5 years (% of pre-crisis GDP)	766	3.291	8.324	-18.363	72.770
Cumulative change of manufacturing exports over 5 years (% of pre-crisis GDP)	766	8.362	13.009	-11.702	94.118
Cumulative change of services exports over 5 years (% of pre-crisis GDP)	766	5.392	7.282	-9.869	49.547
Cumulative change of imports over 5 years (% of pre-crisis GDP)	766	23.338	27.805	-20.333	179.063
Cumulative change of agricultural mining imports over 5 years (% of pre-crisis GDP)	766	2.228	3.039	-4.678	25.207
Cumulative change of mining imports over 5 years (% of pre-crisis GDP)	766	3.819	5.958	-10.939	34.175
Cumulative change of manufacturing imports over 5 years (% of pre-crisis GDP)	766	13.219	16.641	-20.028	102.713
Cumulative change of services imports over 5 years (% of pre-crisis GDP)	766	4.072	5.516	-4.676	40.976
Share of agricultural exports (% of total exports)	766	19.128	15.711	0.160	71.509
Share of mining exports (% of total exports)	766	17.572	21.172	0.001	95.987
Share of manufacturing exports (% of total exports)	766	34.545	21.392	0.306	86.902
Share of services exports (% of total exports)	766	28.755	19.331	2.558	90.934
Share of agricultural imports (% of total imports)	766	10.474	4.338	2.797	30.705
Share of mining imports (% of total imports)	766	13.775	7.875	0.804	46.405
Share of manufacturing imports (% of total imports)	766	55.141	10.704	26.701	80.015
Share of services imports (% of total imports)	766	20.610	7.227	5.017	49.055
1 if Debt crises at start	766	0.052	0.223	0.000	1.000
1 if Banking crises at start	766	0.048	0.215	0.000	1.000
1 if Currency crises at start	766	0.050	0.217	0.000	1.000
Intensity of conflicts	766	1.219	2.227	0.000	10.000
Log of real GDP	766	7.212	3.687	-8.147	15.742
Log. of public debt to GDP	765	3.661	0.696	0.991	5.355
Log. of domestic credit to GDP	757	3.484	0.653	1.380	5.076
Log. of liquid liabilities to GDP	760	3.635	0.573	1.687	5.482
Net capital inflows to GDP	745	2.531	5.075	-22.404	24.586
Log. of foreign reserves to GDP	766	2.201	0.863	-1.138	4.677
Current account to GDP	766	-2.588	5.050	-29.363	22.671
Financial openness index	765	0.469	0.336	0.000	1.000
Log of trade openness to GDP	766	4.021	0.493	2.446	5.116
Terms of trade growth (%)	766	0.005	0.053	-0.323	0.360
Floating exchange rate regime	766	0.110	0.313	0.000	1.000
Government accountability index	766	0.647	0.827	-1.529	1.986
Corruption index	766	-0.589	0.250	-0.960	-0.037
Trading partners' growth (%)	751	3.607	2.034	-4.810	13.262
US interest rate on gov.'s debt securities (%)	766	4.847	4.159	0.125	22.000
Exports diversification index	728	2.840	0.793	1.498	5.558
Trading partners diversification index	728	2.657	0.550	1.651	4.614
Financial development index	766	0.279	0.121	0.061	0.632
Investors' credit ratings risks	761	42.797	14.103	7.650	81.050

#### APPENDIX III. BALANCE AND OVERLAP CHECKS

#### A. Balance checks

#### Table C.3: Balance diagnostics between the treated and control groups, Debt crises

Debt crises														
		(1) No	n weighted		(2) Weighted									
					(21) Cova	riate Balar	cing propen	sity score	(22) Pooled probit					
Variables	Variables Treated Control Std. mean					Control	Std. mean	Var. ratio	Treated	Control	Std. mean	Var. ratio		
# of Banking crises over past-5 years (t-5,t)	0.316	0.147	0.405	1.767	0.211	0.211	0.000	1.026	0.238	0.156	0.205	1.413		
# of Currency crises over past-5 years (t-5,t)	0.474	0.148	0.687	2.245	0.247	0.247	0.000	0.944	0.320	0.167	0.337	1.671		
Intensity of conflicts (t-1)	0.816	1.251	-0.219	0.533	1.161	1.161	0.000	1.042	1.109	1.232	-0.059	0.732		
Log of Real GDP per capita (t-1)	5.490	7.356	-0.427	1.994	6.388	6.388	0.000	3.001	6.418	7.233	-0.174	2.484		
Log. of public debt to GDP (t-1)	3.985	3.657	0.507	0.785	3.832	3.832	0.000	0.760	3.823	3.678	0.236	0.591		
Log. of domestic credit to GDP (t-1)	3.308	3.486	-0.297	0.634	3.326	3.326	0.000	0.673	3.251	3.472	-0.384	0.509		
Log. of liquid liabilities to GDP (t-1)	3.361	3.655	-0.517	0.968	3.470	3.470	0.000	0.604	3.417	3.637	-0.440	0.497		
Net capital inflows to GDP (t-1)	3.733	2.443	0.247	1.120	3.788	3.789	0.000	1.272	2.516	2.544	-0.005	1.075		
Log. of foreign reserves to GDP (t-1)	1.269	2.276	-1.147	1.294	1.747	1.747	0.000	0.508	1.675	2.211	-0.642	0.893		
Current account to GDP (t-1)	-3.434	-2.426	-0.192	1.250	-3.585	-3.585	0.000	1.479	-2.305	-2.512	0.040	1.207		
Financial openness index (t-1)	0.392	0.480	-0.257	1.097	0.440	0.440	0.000	1.067	0.517	0.474	0.124	1.096		
Log of trade openness to GDP (t-1)	3.885	4.031	-0.283	1.237	3.980	3.980	0.000	0.635	3.849	4.024	-0.357	0.931		
Terms of trade growth (t-1)	0.009	0.005	0.069	2.131	0.016	0.016	0.000	0.516	0.013	0.006	0.136	1.023		
Floating exchange rate regime (t-1)	0.395	0.091	0.751	2.969	0.269	0.269	0.000	1.026	0.225	0.111	0.305	1.807		
Government accountability index	0.379	0.683	-0.338	1.499	0.381	0.381	0.000	1.354	0.630	0.655	-0.029	1.295		
Corruption index	-0.593	-0.589	-0.016	1.170	-0.632	-0.632	0.000	1.041	-0.637	-0.591	-0.187	0.903		
Trading partners' growth (t-1)	2.761	3.702	-0.496	0.799	3.153	3.153	0.000	0.924	3.338	3.633	-0.158	0.717		
US interest rate on gov.'s securities (t-1)	8.409	4.442	0.916	1.570	7.299	7.299	0.000	0.435	6.878	4.786	0.501	0.908		

Notes: About the cutpoint on the absolute value of the standardized difference to define imbalance, Rubin (2002) suggests a cut-off of 0.25. As such, if the absolute value of the standardized difference for a variable is higher than 0.25, then there is a significant difference between the treated and control group for this variable. Moreover, Rubin (2002) proposes the use of the ratio of treated and control variances as a balance measure of the second moment, where balance is defined by values close to 1.0 and variables are out of balance if the variance ratio is greater than 2.0 or less than 0.5. The CBPS model eliminates all the differences in characteristics between treated and control groups, which is less the case for the pooled probit model.

#### Table C.4: Balance diagnostics between the treated and control groups, Banking crises

	Banking crises												
		(1) No	n weighted					(2) Weig	hted				
					(21) Cova	riate Balan	cing proper	sity score	(22) Pooled probit				
Variables	Treated Control Std. mean Var. ratio				Treated	Control	Std. mean	Var. ratio	Treated	Control	Std. mean	Var. ratio	
# of Debt crises over past-5 years (t-5,t)	0.147	0.149	-0.005	1.266	0.154	0.154	0.000	1.431	0.173	0.149	0.051	1.778	
# of Currency crises over past-5 years (t-5,t)	0.206	0.163	0.106	1.114	0.161	0.161	0.000	0.943	0.210	0.166	0.109	1.118	
Intensity of conflicts (t-1)	1.353	1.222	0.053	1.471	1.184	1.184	0.000	1.593	1.142	1.230	-0.036	1.379	
Log of Real GDP per capita (t-1)	6.890	7.277	-0.099	1.258	7.238	7.238	0.000	1.708	7.286	7.259	0.007	1.268	
Log. of public debt to GDP (t-1)	3.551	3.680	-0.161	1.835	3.582	3.582	0.000	1.087	3.668	3.673	-0.007	1.434	
Log. of domestic credit to GDP (t-1)	3.617	3.470	0.235	0.818	3.546	3.546	0.000	0.515	3.554	3.477	0.131	0.598	
Log. of liquid liabilities to GDP (t-1)	3.438	3.650	-0.374	0.933	3.592	3.592	0.000	0.469	3.583	3.639	-0.112	0.516	
Net capital inflows to GDP (t-1)	3.389	2.467	0.198	0.646	2.583	2.584	0.000	0.638	2.402	2.514	-0.023	0.798	
Log. of foreign reserves to GDP (t-1)	1.809	2.244	-0.503	1.073	2.136	2.136	0.000	0.779	2.050	2.222	-0.198	1.039	
Current account to GDP (t-1)	-3.308	-2.438	-0.191	0.640	-2.473	-2.474	0.000	0.625	-2.259	-2.485	0.048	0.759	
Financial openness index (t-1)	0.367	0.480	-0.347	0.911	0.483	0.483	0.000	1.038	0.482	0.475	0.021	1.089	
Log of trade openness to GDP (t-1)	3.822	4.033	-0.372	1.768	4.009	4.009	0.000	1.623	4.057	4.023	0.059	1.755	
Terms of trade growth (t-1)	0.013	0.005	0.181	0.539	0.010	0.010	0.000	0.517	0.009	0.005	0.073	0.461	
Floating exchange rate regime (t-1)	0.176	0.103	0.211	1.616	0.115	0.115	0.000	1.029	0.110	0.107	0.010	1.056	
Government accountability index	0.537	0.673	-0.157	1.287	0.713	0.713	0.000	1.010	0.713	0.666	0.056	1.132	
Corruption index	-0.581	-0.589	0.035	0.914	-0.553	-0.553	0.000	1.161	-0.524	-0.588	0.235	1.327	
Trading partners' growth (t-1)	4.225	3.625	0.356	0.384	3.984	3.984	0.000	0.357	3.983	3.655	0.191	0.446	
US interest rate on gov.'s securities (t-1)	6.973	4.535	0.567	1.434	4.984	4.984	0.000	0.312	5.393	4.669	0.204	0.521	

Notes: About the cutpoint on the absolute value of the standardized difference to define imbalance, Rubin (2002) suggests a cut-off of 0.25. As such, if the absolute value of the standardized difference for a variable is higher than 0.25, then there is a significant difference between the treated and control group for this variable. Moreover, Rubin (2002) proposes the use of the ratio of treated and control group for this variable is a balance measure of the second moment, where balance is defined by values close to 1.0 and variables are out of balance if the variance ratio is greater than 2.0 or less than 0.5. The CBPS model eliminates all the differences in characteristics between treated and control groups, which is less the case for the pooled probit model.

Currency crises													
		(1) No	n weighted					(2) Weig	hted				
					(21) Cova	riate Balar	cing propen	sity score	(22) Pooled probit				
Variables	bles Treated Control Std. mean Var. ratio				Treated	Control	Std. mean	Var. ratio	Treated	Control	Std. mean	Var. ratio	
# of Debt crises over past-5 years (t-5,t)	0.500	0.131	0.735	2.773	0.220	0.220	0.000	1.231	0.212	0.148	0.152	1.399	
# of Banking crises over past-5 years (t-5,t)	0.472	0.139	0.767	2.134	0.327	0.327	0.000	1.027	0.264	0.162	0.248	1.468	
Intensity of conflicts (t-1)	0.944	1.243	-0.149	0.554	0.994	0.994	0.000	0.653	0.509	1.219	-0.394	0.297	
Log of Real GDP per capita (t-1)	5.308	7.360	-0.490	1.707	6.914	6.915	0.000	1.319	7.130	7.262	-0.035	1.174	
Log. of public debt to GDP (t-1)	3.749	3.670	0.114	1.039	3.764	3.764	0.000	1.276	3.983	3.678	0.427	1.167	
Log. of domestic credit to GDP (t-1)	3.374	3.482	-0.167	0.913	3.474	3.474	0.000	1.125	3.603	3.477	0.197	0.872	
Log. of liquid liabilities to GDP (t-1)	3.432	3.651	-0.375	1.078	3.622	3.622	0.000	0.868	3.790	3.640	0.262	0.981	
Net capital inflows to GDP (t-1)	3.975	2.434	0.336	0.591	3.604	3.603	0.000	0.745	3.617	2.554	0.220	0.788	
Log. of foreign reserves to GDP (t-1)	1.252	2.274	-1.314	0.750	1.688	1.688	0.000	0.302	1.816	2.205	-0.467	0.749	
Current account to GDP (t-1)	-3.531	-2.424	-0.243	0.631	-3.158	-3.157	0.000	0.736	-3.259	-2.499	-0.163	0.756	
Financial openness index (t-1)	0.327	0.483	-0.504	0.702	0.401	0.401	0.000	1.061	0.496	0.473	0.064	1.362	
Log of trade openness to GDP (t-1)	3.665	4.042	-0.740	1.230	3.840	3.840	0.000	0.591	3.912	4.018	-0.223	0.797	
Terms of trade growth (t-1)	0.013	0.005	0.154	1.399	0.009	0.009	0.000	0.829	0.005	0.006	-0.005	0.669	
Floating exchange rate regime (t-1)	0.389	0.092	0.733	2.923	0.213	0.213	0.000	1.027	0.140	0.109	0.092	1.270	
Government accountability index	0.455	0.678	-0.256	1.304	0.326	0.326	0.000	0.793	0.234	0.648	-0.486	1.077	
Corruption index	-0.579	-0.589	0.040	1.150	-0.598	-0.598	0.000	1.550	-0.652	-0.588	-0.230	1.480	
Trading partners' growth (t-1)	3.501	3.661	-0.090	0.532	3.436	3.435	0.000	0.506	3.263	3.638	-0.216	0.483	
US interest rate on gov.'s securities (t-1)	7.388	4.507	0.669	1.466	6.088	6.088	0.000	1.265	5.335	4.718	0.139	1.432	

Table C.5: Balance diagnostics between the treated and control groups, Currency crises

Notes: About the cutpoint on the absolute value of the standardized difference to define imbalance, Rubin (2002) suggests a cut-off of 0.25. As such, if the absolute value of the standardized difference to define imbalance, Rubin (2002) suggests a cut-off of 0.25. As such, if the absolute value of the standardized difference for a variable is higher than 0.25, then there is a significant difference between the treated and control group for this variable. Moreover, Rubin (2002) proposes the use of the ratio of treated and control group for this variables are out of balance if the variance ratio is greater than 2.0 or less than 0.5. The CBPS model eliminates all the differences in characteristics between treated and control groups, which is less the case for the pooled proble model.

#### **B.** Overlap checks





Notes: The predicted propensity scores in (1), (2), and (3) are obtained after a pplying the CBPS estimator. The dependent variable equals to 1 at the start of financial crises, 0 in country-years observations without crises (unfolding). We use the largest set of control variables described in the data section and included with lags to reduce potential issues of endogeneity. These figures display a high probability of financial crises for the treated groups (especially for debt and currency crises) and a low probability for their counterparts. More importantly, they show a significant overlap between the treated and control groups. Since some observations receive a large weight, we set the maximum weight to 10 for the ATE-AIPW estimates.

#### APPENDIX IV. SUPPLEMENTARY GRAPHS AND TABLES

#### A. Graphs

#### A.1. Benchmark and robustness results

Figure D.3: Robustness, cumulative trade losses over five years after combined financial crises



#### Panel II: Imports (percent of pre-crisis GDP)



Notes: Robust standard errors clustered at the country-level in parentheses. AIPW estimates. The dependent variables are 100 times the cumulative change of agricultural, mining, manufacturing, and services exports and imports relative to the year prior to the onset of the crisis for years 1-5 after the onset of the crisis, scaled precrisis GDP. Accumulated losses over five years. Maximum weights truncated at 10.



Figure D.4: Robustness, cumulative trade losses over five years after individual financial crises

Notes: Robust standard errors clustered at the country-level in parentheses. AIPW estimates. The dependent variables are 100 times the cumulative change of agricultural, mining, manufacturing, and services exports and imports relative to the year prior to the onset of the crisis for years 1-5 after the onset of the crisis, scaled precrisis GDP. Accumulated losses over five years. Maximum weights truncated at 10.

Manufacturing

h=0 h=1 h=2 h=3 h=4 h=5

Mining

h=0 h=1 h=2 h=3 h=4 h=5

Agriculture

-20

h=0 h=1 h=2 h=3 h=4 h=5

Services

Figure D.5: Robustness, Drop the period 2008 onwards, cumulative trade losses over five years after financial



Panel I: Exports (percent of pre-crisis GDP)





Notes: Robust standard errors clustered at the country-level in parentheses. AIPW estimates. The dependent variables are 100 times the cumulative change of agricultural, mining, manufacturing, and services exports and imports relative to the year prior to the onset of the crisis for years 1-5 after the onset of the crisis, scaled precrisis GDP. Accumulated losses over five years. Maximum weights truncated at 10.

Figure D.6: Robustness, Maximum weight set to 20, cumulative trade losses over five years after financial



Panel I: Exports (percent of pre-crisis GDP)





Notes: Robust standard errors clustered at the country-level in parentheses. AIPW estimates. The dependent variables are 100 times the cumulative change of agricultural, mining, manufacturing, and services exports and imports relative to the year prior to the onset of the crisis for years 1-5 after the onset of the crisis, scaled precrisis GDP. Accumulated losses over five years. Maximum weights truncated at 20.

Figure D.7: Robustness, Maximum weight set to 5, cumulative trade losses over five years after financial



Panel I: Exports (percent of pre-crisis GDP)



Notes: Robust standard errors clustered at the country-level in parentheses. AIPW estimates. The dependent variables are 100 times the cumulative change of agricultural, mining, manufacturing, and services exports and imports relative to the year prior to the onset of the crisis for years 1-5 after the onset of the crisis, scaled precrisis GDP. Accumulated losses over five years. Maximum weights truncated at 5.

Figure D.8: Robustness, Alternative sources and definitions of crises, cumulative trade losses over five years



Panel I: Exports (percent of pre-crisis GDP)





Notes: Robust standard errors clustered at the country-level in parentheses. AIPW estimates. The dependent variables are 100 times the cumulative change of agricultural, mining, manufacturing, and services exports and imports relative to the year prior to the onset of the crisis for years 1-5 after the onset of the crisis, scaled precrisis GDP. Accumulated losses over five years. Maximum weights truncated at 10.

Figure D.9: Robustness, Inverse Probability Weighted (IPW) estimator, cumulative trade losses over five



Panel I: Exports (percent of pre-crisis GDP)



Notes: Robust standard errors clustered at the country-level in parentheses. AIPW estimates. The dependent variables are 100 times the cumulative change of agricultural, mining, manufacturing, and services exports and imports relative to the year prior to the onset of the crisis for years 1-5 after the onset of the crisis, scaled precrisis GDP. Accumulated losses over five years. Maximum weights truncated at 10.

## A.2. Channels





Panel I: Higher Manufacturing exports at T-1

Panel II: Lower Manufacturing exports at T-1



Notes: Robust standard errors clustered at the country-level in parentheses. AIPW estimates. The dependent variables are 100 times the cumulative change of a gricultural, mining, manufacturing, and services exports and imports relative to the year prior to the onset of the crisis f or years 1-5 after the onset of the crisis, scaled pre-crisis GDP. Accumulated losses over five years. Maximum weights truncated at 10

Figure D.11: Channels, cumulative trade costs over five years after financial crises with and without a higher export diversi fication



Panel I: Higher Export diversification at T-1

## Panel II: Lower Export diversification at T-1



Notes: Robust standard errors clustered at the country-level in parentheses. AIPW estimates. The dependent variables are 100 times the cumulative change of a gricultural, mining, manufacturing, and services exports and imports relative to the year prior to the onset of the crisis f or years 1-5 after the onset of the crisis, scaled pre-crisis GDP. Accumulated losses over five years. Maximum weights truncated at 10

Figure D.12: Channels, cumulative trade costs over five years after financial crises with and without a higher trading partners diversification



Panel I: Higher Trading partners diversification at T-1

#### Panel II: Lower Trading partners diversification at T-1



Notes: Robust standard errors clustered at the country-level in parentheses. AIPW estimates. The dependent variables are 100 times the cumulative change of a gricultural, mining, manufacturing, and services exports and imports relative to the year prior to the onset of the crisis for years 1-5 after the onset of the crisis, scaled pre-crisis GDP. Accumulated losses over five years. Maximum weights truncated at 10

Figure D.13: Channels, cumulative trade costs over five years after financial crises with and without a higher trading partners' growth



# Panel I: Higher Trading partners' growth over T+0 to T+5

# Panel II: Lower Trading partners' growth over T+0 to T+5



Notes: Robust standard errors clustered at the country-level in parentheses. AIPW estimates. The dependent variables are 100 times the cumulative change of a gricultural, mining, manufacturing, and services exports and imports relative to the year prior to the onset of the crisis for years 1-5 after the onset of the crisis, scaled pre-crisis GDP. Accumulated losses over five years. Maximum weights truncated at 10

Figure D.14: Channels, cumulative trade costs over five years after financial crises with and without a higher financial development



### Panel I: Higher Financial Development over T+0 to T+5

## Panel II: Lower Financial Development over T+0 to T+5



Notes: Robust standard errors clustered at the country-level in parentheses. AIPW estimates. The dependent variables are 100 times the cumulative change of a gricultural, mining, manufacturing, and services exports and imports relative to the year prior to the onset of the crisis for years 1-5 after the onset of the crisis, scaled pre-crisis GDP. Accumulated losses over five years. Maximum weights truncated at 10

Figure D.15: Channels, cumulative trade costs over five years after financial crises with and without higher gross capital inflows



Panel I: Higher Gross Capital inflows over T+0 to T+5

# Panel II: Lower Gross Capital inflows over T+0 to T+5



Notes: Robust standard errors clustered at the country-level in parentheses. AIPW estimates. The dependent variables are 100 times the cumulative change of a gricultural, mining, manufacturing, and services exports and imports relative to the year prior to the onset of the crisis f or years 1-5 after the onset of the crisis, scaled pre-crisis GDP. Accumulated losses over five years. Maximum weights truncated at 10

Figure D.16: Channels, cumulative trade costs over five years after financial crises with and without a higher investors' credit rating risks



Panel II: Higher Investors' credit ratings risks over T+0 to T+5



Notes: Robust standard errors clustered at the country-level in parentheses. AIPW estimates. The dependent variables are 100 times the cumulative change of a gricultural, mining, manufacturing, and services exports and imports relative to the year prior to the onset of the crisis f or years 1-5 after the onset of the crisis, scaled pre-crisis GDP. Accumulated losses over five years. Maximum weights truncated at 10

# **B.** Tables

### **B.1.** First stage model, pooled probit

Table D.6: Treatment models predicting the likelihood of financial crises, pooled probit, average marginal effects

	(1)	(2)	(3)
	Debt	Banking	Currency
# of Debt crises over past-5 years (t-5,t)		-0.012	0.034**
		(0.022)	(0.014)
# of Banking crises over past-5 years (t-5,t)	0.026		0.060***
	(0.016)		(0.016)
# of Currency crises over past-5 years (t-5,t)	0.018	0.010	
• • • •	(0.016)	(0.023)	
Intensity of conflicts (t-1)	-0.004	-0.002	-0.006
	(0.004)	(0.004)	(0.004)
Log of real GDP (t-1)	-0.001	-0.002	-0.005**
-	(0.002)	(0.002)	(0.002)
Log. of public debt to GDP (t-1)	0.042***	0.004	-0.002
	(0.015)	(0.013)	(0.012)
Log. of domestic credit to GDP (t-1)	0.010	0.049***	0.010
-	(0.015)	(0.019)	(0.014)
Log. of liquid liabilities to GDP (t-1)	-0.026	-0.051**	0.019
	(0.019)	(0.022)	(0.019)
Net capital inflows to GDP (t-1)	0.002	0.001	0.002
• · · ·	(0.005)	(0.007)	(0.005)
Log. of foreign reserves to GDP (t-1)	-0.038***	-0.013	-0.034***
	(0.010)	(0.012)	(0.011)
Current account to GDP (t-1)	0.003	-0.001	-0.002
	(0.005)	(0.007)	(0.005)
Financial openness index (t-1)	0.051*	-0.035	-0.002
· · ·	(0.027)	(0.026)	(0.026)
Log of trade openness to GDP (t-1)	0.008	-0.015	-0.038**
	(0.017)	(0.018)	(0.017)
Terms of trade growth (t-1)	0.000	0.107	0.050
Č ( )	(0.101)	(0.132)	(0.104)
Floating exchange rate regime (t-1)	0.054***	-0.028	0.047**
	(0.020)	(0.030)	(0.018)
Government accountability index	-0.000	-0.000	-0.009
-	(0.012)	(0.012)	(0.011)
Corruption index	-0.008	0.002	0.003
*	(0.034)	(0.036)	(0.035)
Trading partners' growth (t-1)	-0.010**	0.010**	0.001
	(0.004)	(0.005)	(0.004)
US interest rate on gov.'s debt securities (t-1)	0.004**	0.002	-0.001
C ( )	(0.002)	(0.002)	(0.002)
Observations	732	732	732
# of crises	38	34	36
Classification	94.262	95.219	95.082
Model AUC	0.922	0.769	0.915
s.e. AUC	0.016	0.038	0.019
nseudo R2	0.338	0.121	0 3/3

pseudo R20.3380.1210.343Notes: Robust standard errors clustered at the country-level in parentheses. \* p < 0.1, \*\* p <</td>0.05, \*\*\* p < 0.01. Pooled probit model. The coefficients are the average marginal effects at the mean. AUC denotes Area Under Receiver Operating Characteristic curve.

# **B.2. Benchmark and robustness results**

Table D.7: Benchmark results	Cumulative trade los	sses over five years	after financia	l crises
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Panel	I: Exports (p	ercent of pr	e-crisis GD	P)			Panel II: Imports (percent of pre-crisis GDP)						
	(1)	(2)	(3)	(4)	(5)	(6)		(1)	(2)	(3)	(4)	(5)	(6)
	h=0	h=1	h=2	h=3	h=4	h=5		h=0	h=1	h=2	h=3	h=4	h=5
Panel A: Debt Crises							Panel A': Debt Crises						
ATE-AIPW Total	-0.134	-3.415***	-3.348***	-5.925***	-6.413***	-5.639***	ATE-AIPW Total	-4.397***	-8.365***	-9.358***	-10.403***	-11.188***	-11.012***
	(0.342)	(0.466)	(0.597)	(0.860)	(1.093)	(1.514)		(0.471)	(0.649)	(1.004)	(1.322)	(1.668)	(2.246)
ATE-AIPW Agriculture	-0.146	-0.048	0.382**	0.364	0.846**	2.248***	ATE-AIPW Agriculture	-0.375***	-0.822***	-0.810***	-1.069***	-1.363***	-1.078***
	(0.122)	(0.141)	(0.184)	(0.293)	(0.395)	(0.623)		(0.073)	(0.081)	(0.134)	(0.159)	(0.188)	(0.245)
ATE-AIPW Mining	1.420***	-0.404*	-0.013	-0.639*	-0.263	1.068*	ATE-AIPW Mining	-0.644***	-1.492***	-1.664***	-2.103***	-1.934***	-1.927***
	(0.215)	(0.226)	(0.260)	(0.351)	(0.425)	(0.590)		(0.093)	(0.156)	(0.215)	(0.298)	(0.381)	(0.531)
ATE-AIPW Manufacturing	-0.862***	-2.026***	-2.605***	-4.057***	-5.098***	-6.065***	ATE-AIPW Manufacturing	-2.265***	-4.432***	-4.456***	-4.730***	-5.207***	-5.388***
-	(0.145)	(0.257)	(0.327)	(0.418)	(0.540)	(0.736)	-	(0.305)	(0.414)	(0.612)	(0.800)	(1.011)	(1.358)
ATE-AIPW Services	-0.546***	-0.936***	-1.113***	-1.592***	-1.898***	-2.890***	ATE-AIPW Services	-1.113***	-1.619***	-2.429***	-2.502***	-2.685***	-2.619***
	(0.082)	(0.128)	(0.187)	(0.246)	(0.293)	(0.380)		(0.114)	(0.153)	(0.209)	(0.241)	(0.290)	(0.346)
Observations	732	732	732	732	732	732	Observations	732	732	732	732	732	732
# of Crises	38	38	38	38	38	38	# of Crises	38	38	38	38	38	38
# of Countries	41	41	41	41	41	41	# of Countries	41	41	41	41	41	41
P-value Total Exports= Total Imports	0.000	0.000	0.000	0.000	0.000	0.231	P-value Total Exports= Total Imports	0.000	0.000	0.000	0.000	0.000	0.231
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Panel B: Banking Crises							Panel B': Banking Crises						
ATE-AIPW Total	-1.274***	-4.957***	-5.561***	-5.642***	-8.392***	-8.943***	ATE-AIPW Total	-3.208***	-7.119***	-9.158***	-9.746***	-11.466***	-14.059***
	(0.321)	(0.519)	(0.618)	(0.747)	(0.960)	(1.130)		(0.484)	(0.840)	(0.959)	(1.069)	(1.388)	(1.571)
ATE-AIPW Agriculture	-0.086	-0.403***	-0.724***	-0.885***	-1.071***	-1.530***	ATE-AIPW Agriculture	-0.248***	0.027	-0.417***	-0.732***	-0.962***	-1.493***
-	(0.070)	(0.097)	(0.133)	(0.158)	(0.192)	(0.212)	-	(0.081)	(0.139)	(0.149)	(0.149)	(0.180)	(0.173)
ATE-AIPW Mining	-0.156	-0.857***	-0.824***	-1.185***	-2.262***	-1.604***	ATE-AIPW Mining	-0.666***	-1.310***	-1.669***	-1.938***	-2.421***	-2.934***
-	(0.165)	(0.238)	(0.280)	(0.315)	(0.353)	(0.480)	-	(0.112)	(0.163)	(0.185)	(0.222)	(0.271)	(0.307)
ATE-AIPW Manufacturing	-0.362**	-1.853***	-1.830***	-1.399***	-2.065***	-2.326***	ATE-AIPW Manufacturing	-1.880***	-4.767***	-5.380***	-5.140***	-5.748***	-7.038***
-	(0.152)	(0.305)	(0.385)	(0.480)	(0.599)	(0.728)	-	(0.271)	(0.509)	(0.578)	(0.644)	(0.849)	(0.989)
ATE-AIPW Services	-0.669***	-1.844***	-2.183***	-2.174***	-2.994***	-3.484***	ATE-AIPW Services	-0.414***	-1.070***	-1.692***	-1.937***	-2.334***	-2.594***
	(0.102)	(0.170)	(0.238)	(0.318)	(0.394)	(0.503)		(0.108)	(0.134)	(0.187)	(0.219)	(0.262)	(0.293)
Observations	732	732	732	732	732	732	Observations	732	732	732	732	732	732
# of Crises	34	34	34	34	34	34	# of Crises	34	34	34	34	34	34
# of Countries	41	41	41	41	41	41	# of Countries	41	41	41	41	41	41
P-value Total Exports= Total Imports	0.019	0.000	0.002	0.250	0.008	0.011	P-value Total Exports= Total Imports	0.019	0.000	0.002	0.250	0.008	0.011
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Panel C: Currency Crises							Panel C': Currency Crises						
ATE-AIPW Total	-4.435***	-4.198***	-4.901***	-5.135***	-6.757***	-7.702***	ATE-AIPW Total	-8.533***	-9.463***	-9.255***	-10.500***	-10.630***	-9.105***
	(0.356)	(0.440)	(0.616)	(0.776)	(0.896)	(1.113)		(0.506)	(0.629)	(0.871)	(1.098)	(1.308)	(1.640)
ATE-AIPW Agriculture	-0.037	-0.257**	-0.234	-0.261	-0.079	0.039	ATE-AIPW Agriculture	-0.761***	-0.764***	-0.838***	-1.080***	-0.831***	-0.667***
-	(0.076)	(0.123)	(0.230)	(0.250)	(0.235)	(0.317)	-	(0.084)	(0.078)	(0.105)	(0.118)	(0.144)	(0.170)
ATE-AIPW Mining	-0.898***	-1.053***	-1.591***	-1.548***	-2.404***	-2.896***	ATE-AIPW Mining	-1.765***	-1.508***	-1.952***	-2.263***	-2.978***	-2.957***
-	(0.204)	(0.176)	(0.263)	(0.296)	(0.336)	(0.402)	-	(0.112)	(0.144)	(0.209)	(0.250)	(0.282)	(0.389)
ATE-AIPW Manufacturing	-2.578***	-2.282***	-2.584***	-3.127***	-3.852***	-3.959***	ATE-AIPW Manufacturing	-4.930***	-5.963***	-5.179***	-5.839***	-5.801***	-4.557***
0	(0.195)	(0.256)	(0.314)	(0.416)	(0.507)	(0.616)		(0.311)	(0.392)	(0.514)	(0.642)	(0.778)	(0.948)
ATE-AIPW Services	-0.923***	-0.605***	-0.491**	-0.199	-0.422	-0.886**	ATE-AIPW Services	-1.077***	-1.229***	-1.286***	-1.318***	-1.021***	-0.925***
	(0.089)	(0.150)	(0.211)	(0.315)	(0.352)	(0.407)		(0.087)	(0.131)	(0.191)	(0.244)	(0.281)	(0.312)
Observations	732	732	732	732	732	732	Observations	732	732	732	732	732	732
# of Crises	36	36	36	36	36	36	# of Crises	36	36	36	36	36	36
# of Countries	41	41	41	41	41	41	# of Countries	41	41	41	41	41	41
P-value Total Exports= Total Imports	0.093	0.000	0.000	0.000	0.004	0.879	P-value Total Exports= Total Imports	0.093	0.000	0.000	0.000	0.004	0.879
· · · · ·													

The total exports of the matrix total exports of the matrix of the control of the control exports of the control

Table D.8: Robustness, Cumulative trade losses over five years after combined financial crises

Pane	l I: Exports	(% of pre-c	risis GDP)				Panel II: Imports (% of pre-crisis GDP)						
	(1)	(2)	(3)	(4)	(5)	(6)		(1)	(2)	(3)	(4)	(5)	(6)
	h=0	h=1	h=2	h=3	h=4	h=5		h=0	h=1	h=2	h=3	h=4	h=5
Panel A: Debt Crises							Panel A': Debt Crises						
ATE-AIPW Total	-2.398***	-3.242***	-4.211***	-7.640***	-9.691***	-9.805***	ATE-AIPW Total	-4.958***	-8.270***	-8.344***	-8.271***	-8.116***	-5.690***
	(0.308)	(0.498)	(0.652)	(0.918)	(1.077)	(1.328)		(0.481)	(0.739)	(1.072)	(1.366)	(1.539)	(1.819)
ATE-AIPW Agriculture	-1.190***	-0.780***	-0.609***	0.292	0.137	-0.249	ATE-AIPW Agriculture	-0.446***	-0.684 ***	-0.594***	-0.716***	-0.928***	-0.502**
	(0.119)	(0.133)	(0.187)	(0.297)	(0.318)	(0.342)		(0.066)	(0.093)	(0.138)	(0.192)	(0.179)	(0.216)
ATE-AIPW Mining	0.173	0.061	0.400	-1.849***	-1.124***	1.272**	ATE-AIPW Mining	-0.398***	-0.773***	-1.190***	-1.344***	-0.239	-0.480
	(0.119)	(0.230)	(0.272)	(0.345)	(0.405)	(0.575)		(0.093)	(0.160)	(0.213)	(0.294)	(0.379)	(0.514)
ATE-AIPW Manufacturing	-0.865***	-1.866***	-2.984***	-4.990***	-7.223***	-8.395***	ATE-AIPW Manufacturing	-2.519***	-4.879***	-4.157***	-3.758***	-4.817***	-3.520***
	(0.150)	(0.273)	(0.347)	(0.450)	(0.562)	(0.673)		(0.310)	(0.464)	(0.655)	(0.799)	(0.870)	(0.970)
ATE-AIPW Services	-0.517***	-0.658***	$-1.019^{***}$	-1.093***	-1.481***	-2.433***	ATE-AIPW Services	-1.596***	-1.933***	-2.403***	-2.453***	-2.131***	-1.188***
	(0.089)	(0.144)	(0.205)	(0.260)	(0.303)	(0.378)		(0.113)	(0.160)	(0.211)	(0.247)	(0.281)	(0.314)
Observations	689	689	689	689	689	689	Observations	689	689	689	689	689	689
# of Crises	24	24	24	24	24	24	# of Crises	24	24	24	24	24	24
# of Countries	40	40	40	40	40	40	# of Countries	40	40	40	40	40	40
P-value Total Exports= Total Imports	0.000	0.000	0.000	0.461	0.087	0.000	P-value Total Exports= Total Imports	0.000	0.000	0.000	0.461	0.087	0.000
Panel B: Banking Crises							Panel B': Banking Crises						
ATE-AIPW Total	-0.561	-8.605***	-6.842***	-6.090***	-9.662***	-12.192***	ATE-AIPW Total	-3.082***	-12.940***	-13.704***	-11.994***	-12.902***	-15.745***
	(0.378)	(0.488)	(0.686)	(0.780)	(0.910)	(1.054)		(0.586)	(1.003)	(1.262)	(1.328)	(1.350)	(1.677)
ATE-AIPW Agriculture	0.140*	-0.299***	-0.627***	-0.209	0.405*	0.291	ATE-AIPW Agriculture	-0.382***	-0.907***	-1.271***	-1.427***	-1.606***	-1.840***
	(0.077)	(0.091)	(0.137)	(0.172)	(0.213)	(0.229)		(0.078)	(0.145)	(0.172)	(0.162)	(0.158)	(0.188)
ATE-AIPW Mining	-0.066	-1.362***	-0.090	-0.229	-2.077***	-2.056***	ATE-AIPW Mining	-0.008	-1.687***	-1.592***	-1.065***	-1.558***	-2.685***
	(0.154)	(0.219)	(0.314)	(0.351)	(0.417)	(0.542)		(0.128)	(0.199)	(0.242)	(0.275)	(0.295)	(0.347)
ATE-AIPW Manufacturing	-0.155	-4.234***	-3.686***	-3.002***	-4.403***	-6.214***	ATE-AIPW Manufacturing	-1.882***	-8.617***	-8.660***	-7.272***	-7.263***	-8.524***
	(0.177)	(0.283)	(0.354)	(0.449)	(0.581)	(0.703)		(0.340)	(0.590)	(0.738)	(0.767)	(0.786)	(1.016)
ATE-AIPW Services	-0.481***	-2.710***	-2.439***	-2.650***	-3.586***	-4.214***	ATE-AIPW Services	-0.810***	-1.730***	-2.179***	-2.230***	-2.475***	-2.697***
	(0.114)	(0.184)	(0.264)	(0.328)	(0.422)	(0.541)		(0.109)	(0.141)	(0.195)	(0.235)	(0.252)	(0.276)
Observations	689	689	689	689	689	689	Observations	689	689	689	689	689	689
# of Crises	17	17	17	17	17	17	# of Crises	17	17	17	17	17	17
# of Countries	40	40	40	40	40	40	# of Countries	40	40	40	40	40	40
P-value Total Exports= Total Imports	0.000	0.000	0.000	0.000	0.001	0.003	P-value Total Exports= Total Imports	0.000	0.000	0.000	0.000	0.001	0.003
P IG G G:							P 1010 01						
Panel C: Currency Crises	6.001444	5 (10000	5.017000	5.015444	0.700444	11.010444	Panel C : Currency Crises	11.025444	10 (75666)	0.170444	10 12 0000	10.026844	12.057444
ATE-AIPW Iotai	-6.901***	-5.610***	-5.21/***	-5.91/***	-8. /98***	-11.019***	ATE-AIPW Total	-11.025***	-10.6/5***	-9.1/9***	-10.436***	-12.926***	-13.95/***
	(0.325)	(0.4/5)	(0.651)	(0.8//)	(0.972)	(1.201)		(0.495)	(0.653)	(0.852)	(1.251)	(1.401)	(1.697)
ATE-AIPW Agriculture	-0.18/**	-0.257**	0.088	0.6/4***	0.608**	0.953***	ATE-AIPW Agriculture	-0./91***	-0.6//***	-0.836***	-1.018***	-1.041***	-1.241***
	(0.079)	(0.130)	(0.240)	(0.258)	(0.238)	(0.322)		(0.085)	(0.085)	(0.102)	(0.173)	(0.156)	(0.193)
ATE-AIPW Mining	-1.031***	-1.226***	-1.844***	-1.611***	-2.519***	-3.648***	ATE-AIPW Mining	-2.005***	-1.546***	-1.128***	-1.53/***	-2.55/***	-3.148***
	(0.115)	(0.220)	(0.289)	(0.299)	(0.356)	(0.509)		(0.101)	(0.143)	(0.186)	(0.260)	(0.290)	(0.411)
ATE-AIPW Manufacturing	-4.049***	-2.782***	-1.980***	-2.704***	-4.183***	-5.050***	ATE-AIPW Manufacturing	-6.593***	-6.633***	-5.223***	-5.535***	-6.925***	-7.226***
ATTE AND A	(0.192)	(0.2/2)	(0.344)	(0.446)	(0.574)	(0.723)	A THE A NONLO	(0.308)	(0.420)	(0.527)	(0.702)	(0.795)	(0.944)
ATE-AIrW Services	-1.634***	-1.344***	-1.482***	-2.277***	-2.705***	-5.274***	A IE-AIPW Services	-1.635***	-1.820***	-1.993***	-2.346***	-2.404***	-2.341***
<b>21</b> 4	(0.108)	(0.166)	(0.240)	(0.506)	(0.479)	(0.4/6)		(0.095)	(0.122)	(0.179)	(0.345)	(0.384)	(0.356)
Observations	689	689	689	689	689	689	Observations	689	689	689	689	689	689
# of Crises	24	24	24	24	24	24	# of Crises	24	24	24	24	24	24
# of Countries	40	40	40	40	40	40	# of Countries	40	40	40	40	40	40
P-value Total Exports= Total Imports	0.000	0.000	0.000	0.000	0.000	0.003	P-value Total Exports= Total Imports	0.000	0.000	0.000	0.000	0.000	0.003

Note: Robust standard errors clustered at the country-level in parentheses.\* p < 0.1, \*\* p < 0.00; P-value total Exports= Total Imports 0.000 0.

Table D.9: Robustness, Cumulative trade losses over five years after individual financial crises

Pan	el I: Exports	(% of pre-c	risis GDP)				Panel II: Imports (% of pre-crisis GDP)						
	(1)	(2)	(3)	(4)	(5)	(6)		(1)	(2)	(3)	(4)	(5)	(6)
	h=0	h=1	h=2	h=3	h=4	h=5		h=0	h=1	h=2	h=3	h=4	h=5
Panel A: Debt Crises							Panel A': Debt Crises						
ATE-AIPW Total	2.186***	-3.367***	-2.720***	-4.850***	-4.808***	-3.521*	ATE-AIPW Total	-4.211***	-10.576***	-10.066***	-12.441***	-14.970***	-16.934***
	(0.433)	(0.601)	(0.880)	(1.331)	(1.572)	(1.899)		(0.464)	(0.662)	(1.140)	(1.468)	(2.040)	(2.776)
ATE-AIPW Agriculture	0.658***	0.375***	0.950***	0.827***	1.417***	3.495***	ATE-AIPW Agriculture	-0.408***	-1.204***	-0.994***	-1.448***	-1.759***	-1.679***
	(0.075)	(0.121)	(0.163)	(0.215)	(0.313)	(0.390)		(0.115)	(0.122)	(0.164)	(0.185)	(0.243)	(0.317)
ATE-AIPW Mining	2.403***	-1.013***	-0.450	-0.211	-0.239	0.666	ATE-AIPW Mining	-0.712***	-2.037***	-1.914***	-2.991***	-3.302***	-3.217***
	(0.252)	(0.268)	(0.346)	(0.432)	(0.597)	(0.606)		(0.107)	(0.153)	(0.255)	(0.334)	(0.446)	(0.601)
ATE-AIPW Manufacturing	-0.452**	-1.633***	-1.917***	-3.110***	-3.241***	-3.648***	ATE-AIPW Manufacturing	-2.301***	-5.782***	-4.867***	-5.891***	-7.210***	-8.958***
	(0.183)	(0.322)	(0.454)	(0.722)	(0.793)	(0.993)		(0.276)	(0.420)	(0.673)	(0.855)	(1.187)	(1.617)
ATE-AIPW Services	-0.422***	-1.096***	-1.303***	-2.356***	-2.745***	-4.035***	ATE-AIPW Services	-0.791***	-1.553***	-2.291***	-2.110***	-2.699***	-3.080***
	(0.162)	(0.195)	(0.283)	(0.388)	(0.442)	(0.557)		(0.094)	(0.136)	(0.210)	(0.282)	(0.355)	(0.451)
Observations	670	670	670	670	670	670	Observations	670	670	670	670	670	670
# of Crises	13	13	13	13	13	13	# of Crises	13	13	13	13	13	13
# of Countries	40	40	40	40	40	40	# of Countries	40	40	40	40	40	40
P-value Total Exports= Total Imports	0.000	0.000	0.000	0.000	0.000	0.000	P-value Total Exports= Total Imports	0.000	0.000	0.000	0.000	0.000	0.000
Panel B: Banking Crises							Panel B': Banking Crises			0.00.000			
ATE-AIPW Total	-1.570***	-4.914***	-5.442***	-5.659***	-8.415***	-7.794***	ATE-AIPW Total	-4.305***	-8.532***	-8.706***	-10.003***	-12.822***	-13.706***
	(0.403)	(0.548)	(0.651)	(0.833)	(1.199)	(1.225)		(0.524)	(1.021)	(1.163)	(1.462)	(2.028)	(2.020)
ATE-AIPW Agriculture	-0.037	-0.490***	-0.5/8***	-0.848***	-1.555***	-1.901***	A IE-AIPW Agriculture	-0.360***	-0.5//***	-0.639***	-0.912***	-1.401***	-1.545***
	(0.076)	(0.128)	(0.146)	(0.170)	(0.200)	(0.211)		(0.085)	(0.119)	(0.133)	(0.177)	(0.247)	(0.237)
ATE-AIPW Mining	-0.117	-1.0/1***	-1.285***	-1.546***	-2.359***	-1.226**	A IE-AIPW Mining	-1.018***	-1.695***	-2.009***	-2.313***	-3.181***	-3.33/***
ATE ADD M	(0.241)	(0.185)	(0.219)	(0.295)	(0.362)	(0.481)	ATE ADD Manuel atomia	(0.134)	(0.231)	(0.256)	(0.308)	(0.455)	(0.384)
ATE-AIPW Manufacturing	-0.531***	-1.55/***	-1.525***	-1.280**	-1.843**	-1.453*	ATE-AIPW Manufacturing	-2.356***	-4.814***	-4.436***	-5.011***	-5.925***	-6.444***
ATE ADD C	(0.194)	(0.552)	(0.421)	(0.551)	(0.725)	(0.785)	ATE ADD Condens	(0.500)	(0.597)	(0.002)	(0.817)	(1.127)	(1.209)
ATE-AIF W Services	-0.885	-1.61/	(0.260)	(0.272)	(0.402)	-3.215	ATE-All w Services	(0.000)	(0.171)	(0.220)	-1.707	-2.310	-2.380***
Observations	681	681	681	681	681	681	Observations	681	681	681	681	681	681
# of Crises	17	17	17	17	17	17	# of Crises	17	17	17	17	17	17
# of Countries	41	41	41	41	41	41	# of Countries	41	41	41	41	41	41
P-value Total Exports= Total Imports	0.000	0.000	0.000	0.000	0.000	0.000	P-value Total Exports= Total Imports	0.000	0.000	0.000	0.000	0.000	0.000
			01000	01000	01000		<u></u>	01000	01000		0.000	01000	01000
Panel C: Currency Crises							Panel C': Currency Crises						
ATE-AIPW Total	-2.264***	-1.741***	-4.252***	-3.546***	-2.154**	-2.988**	ATE-AIPW Total	-6.517***	-9.494***	-12.343***	-12.761***	-9.287***	-6.618***
	(0.318)	(0.478)	(0.600)	(0.811)	(0.954)	(1.183)		(0.438)	(0.763)	(1.090)	(1.265)	(1.490)	(1.802)
ATE-AIPW Agriculture	0.112*	-0.490***	-0.635***	-1.096***	-0.996***	-1.036***	ATE-AIPW Agriculture	-0.640***	-1.054***	-1.334***	-1.411***	-0.832***	-0.562***
0	(0.059)	(0.094)	(0.113)	(0.149)	(0.176)	(0.223)	0	(0.058)	(0.094)	(0.138)	(0.140)	(0.163)	(0.197)
ATE-AIPW Mining	-1.807***	-1.095***	-1.635***	-2.340***	-2.483***	-2.801***	ATE-AIPW Mining	-2.042***	-2.197***	-4.469***	-4.466***	-4.708***	-4.350***
-	(0.216)	(0.286)	(0.268)	(0.341)	(0.393)	(0.559)	-	(0.120)	(0.165)	(0.287)	(0.343)	(0.383)	(0.453)
ATE-AIPW Manufacturing	-0.423***	-0.607**	-2.625***	-2.407***	-2.039***	-2.206***	ATE-AIPW Manufacturing	-3.440***	-5.908***	-5.938***	-6.410***	-4.226***	-3.079***
	(0.151)	(0.252)	(0.331)	(0.440)	(0.525)	(0.628)		(0.262)	(0.469)	(0.645)	(0.745)	(0.877)	(1.028)
ATE-AIPW Services	-0.145	0.451**	0.642**	2.297***	3.365***	3.056***	ATE-AIPW Services	-0.394***	-0.336**	-0.602***	-0.475*	0.479	1.372***
	(0.116)	(0.180)	(0.257)	(0.348)	(0.383)	(0.449)		(0.091)	(0.151)	(0.192)	(0.250)	(0.293)	(0.336)
Observations	681	681	681	681	681	681	Observations	681	681	681	681	681	681
# of Crises	12	12	12	12	12	12	# of Crises	12	12	12	12	12	12
# of Countries	41	41	41	41	41	41	# of Countries	41	41	41	41	41	41
P-value Total Exports= Total Imports	0.000	0.000	0.000	0.000	0.000	0.003	P-value Total Exports= Total Imports	0.000	0.000	0.000	0.000	0.000	0.003
Mr. D.L. s. J.L. J. s. J.	the constant i	Income 1 line on a series		01 **	0.05 ***	+ 0.01 A IDW			Indiana altara a	f i 14-	and mainting a	er and for a tradition	

Note: Robust standard errors clustered at the country-level in parentheses.\* p < 0.1, \*\* p < 0.00, volume 0.003 P-value total Exports= Total Imports 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000

# Table D.10: Robustness, Drop the period 2008 onwards, Cumulative trade losses over five years after financial crises

Pane	el I: Exports	(% of pre-c	risis GDP)				Panel II: Imports (% of pre-crisis GDP)						
	(1)	(2)	(3)	(4)	(5)	(6)		(1)	(2)	(3)	(4)	(5)	(6)
	h=0	h=1	h=2	h=3	h=4	h=5		h=0	h=1	h=2	h=3	h=4	h=5
Panel A: Debt Crises							Panel A': Debt Crises						
ATE-AIPW Total	-0.070	-1.142**	-0.504	-2.795**	-2.855**	-2.373	ATE-AIPW Total	-4.044***	-6.069***	-5.434***	-6.101***	-6.073***	-8.638***
	(0.452)	(0.567)	(0.756)	(1.128)	(1.374)	(1.830)		(0.649)	(0.850)	(1.300)	(1.576)	(1.858)	(2.300)
ATE-AIPW Agriculture	-0.444***	-0.179	0.528**	0.544	0.584	0.929**	ATE-AIPW Agriculture	-0.293**	-0.636***	-0.414**	-0.637**	-0.662***	-0.600**
	(0.155)	(0.151)	(0.225)	(0.395)	(0.419)	(0.415)		(0.148)	(0.140)	(0.200)	(0.252)	(0.211)	(0.270)
ATE-AIPW Mining	1.261***	0.812***	0.864***	-0.201	0.247	1.634*	ATE-AIPW Mining	-0.540***	-0.489***	-0.356	-0.732**	-0.871**	-1.751***
	(0.303)	(0.312)	(0.333)	(0.447)	(0.580)	(0.909)		(0.122)	(0.156)	(0.217)	(0.318)	(0.416)	(0.544)
ATE-AIPW Manufacturing	-0.487***	-1.118***	-1.414***	-2.449***	-2.896***	-3.589***	ATE-AIPW Manufacturing	-2.178***	-3.678***	-3.045***	-3.162***	-3.106***	-4.758***
	(0.150)	(0.305)	(0.430)	(0.574)	(0.729)	(0.963)		(0.419)	(0.549)	(0.817)	(0.939)	(1.116)	(1.330)
ATE-AIPW Services	-0.400***	-0.657***	-0.481*	-0.689**	-0.790**	-1.348***	ATE-AIPW Services	-1.032***	-1.266***	-1.619***	-1.570***	-1.435***	-1.528***
	(0.106)	(0.173)	(0.265)	(0.305)	(0.364)	(0.463)		(0.170)	(0.219)	(0.295)	(0.314)	(0.383)	(0.449)
Observations	409	409	409	409	409	409	Observations	409	409	409	409	409	409
# of Crises	33	33	33	33	33	33	# of Crises	33	33	33	33	33	33
# of Countries	39	39	39	39	39	39	# of Countries	39	39	39	39	39	39
P-value Total Exports= Total Imports	0.000	0.000	0.000	0.002	0.001	0.000	P-value Total Exports= Total Imports	0.000	0.000	0.000	0.002	0.001	0.000
Panel B: Banking Crises							Panel B': Banking Crises						
ATE-AIPW Total	-1.009***	-2.124***	-2.521***	-2.977***	-5.977***	-7.152***	ATE-AIPW Total	-2.645***	-3.893***	-4.564***	-4.511***	-5.715***	-8.990***
	(0.341)	(0.511)	(0.668)	(0.925)	(1.226)	(1.485)		(0.535)	(0.754)	(0.992)	(1.344)	(1.993)	(2.723)
ATE-AIPW Agriculture	0.070	-0.020	-0.136	-0.281	-0.494*	-0.741***	ATE-AIPW Agriculture	-0.226**	-0.040	-0.166	-0.398*	-0.533**	-0.871**
	(0.095)	(0.131)	(0.182)	(0.204)	(0.257)	(0.251)		(0.107)	(0.125)	(0.151)	(0.204)	(0.250)	(0.347)
ATE-AIPW Mining	-0.066	-0.018	0.176	-0.306	-1.912***	-1.305**	ATE-AIPW Mining	-0.278***	-0.234**	-0.394***	-0.647***	-1.140***	-1.881***
	(0.135)	(0.195)	(0.273)	(0.315)	(0.365)	(0.628)		(0.081)	(0.113)	(0.144)	(0.212)	(0.354)	(0.522)
ATE-AIPW Manufacturing	-0.391**	-0.789**	-1.119**	-1.095*	-1.591**	-2.419**	ATE-AIPW Manufacturing	-1.576***	-2.831***	-2.971***	-2.405***	-2.544**	-4.279***
	(0.165)	(0.310)	(0.469)	(0.635)	(0.794)	(1.022)		(0.326)	(0.495)	(0.641)	(0.839)	(1.224)	(1.642)
ATE-AIPW Services	-0.622***	-1.297***	-1.442***	-1.295***	-1.981***	-2.686***	ATE-AIPW Services	-0.566***	-0.789***	-1.034***	-1.062***	-1.498***	-1.959***
	(0.152)	(0.219)	(0.301)	(0.418)	(0.514)	(0.632)		(0.150)	(0.162)	(0.241)	(0.289)	(0.370)	(0.438)
Observations	409	409	409	409	409	409	Observations	409	409	409	409	409	409
# of Crises	31	31	31	31	31	31	# of Crises	31	31	31	31	31	31
# of Countries	39	39	39	39	39	39	# of Countries	39	39	39	39	39	39
P-value Total Exports= Total Imports	0.002	0.003	0.012	0.119	0.837	0.342	P-value Total Exports= Total Imports	0.002	0.003	0.012	0.119	0.837	0.342
							P I di di di						
Panel C: Currency Crises	1.100000	0.020#	0.000000	0.110*	1.001444	7.000444	Panel C: Currency Crises	1 (07666	5 107444	5 500444	5 00 1000	5.051444	2.01.4044
ATE-AIPW Iotai	-1.166***	-0.930*	-2.269***	-2.112*	-4.091***	-7.208***	ATE-AIPW Iotai	-4.68/***	-5.18/***	-5.589***	-5.694***	-5.854***	-/.014***
ATTE A IDIN A suri surlivera	(0.424)	(0.511)	(0.855)	(1.105)	(1.557)	(1.750)	ATE AIDNE A	(0.650)	(0.789)	(1.123)	(1.474)	(1.8/4)	(2.576)
ATE-AIPW Agriculture	0.244**	0.148	0.171	-0.159	0.347	0.542*	ATE-AIPW Agriculture	-0.549***	-0.318***	-0.358**	-0.441***	-0.202	-0.174
ATE ADD Mining	(0.115)	(0.109)	(0.500)	(0.544)	(0.287)	(0.515)	ATE ADM Mining	(0.125)	(0.115)	(0.141)	(0.158)	(0.1/2)	(0.198)
ATE-AIPW Mining	-0.365	-0.4/9**	-1.041***	-0.906**	-2.210***	-3.164***	ATE-AIPW Mining	-0.888***	-0.445***	-1.51/***	-1.256***	-1./80***	-2.058***
ATE ADW Manufaturia	(0.547)	(0.219)	(0.545)	(0.309)	(0.407)	(0.525)	ATE ADM Manufacturing	(0.130)	(0.157)	(0.270)	(0.290)	(0.580)	(0.449)
ATE-AIF w Manufacturing	-0.304***	-0.005*	-1.000***	-2.0/0***	-2.803***	-4.210***	ATE-AIF w Manufacturing	-2.008***	-3.841***	-3.345***	-3.485***	-3.33/***	-4.313***
ATE AIDW Considera	(0.165)	(0.512)	(0.447)	(0.055)	(0.817)	(1.058)	ATE ADDIV Comission	(0.415)	(0.529)	(0.701)	(0.951)	(1.224)	(1.555)
ATE-AIF W Services	-0.462***	0.004	0.288	1.022***	0.030	-0.5//	ATE-AIF W Services	-0.042***	-0.382***	-0.309**	-0.514*	-0.314	-0.469
Observations	(0.100)	(0.172)	(0.279)	(0.393)	(0.438)	(0.398)	Observations	(0.124)	(0.1/1)	(0.245)	400	(0.559)	400
# of Crises	409	409	409	409	409	409	# of Crises	409	409	409	409	409	409
# of Countries	30	30	30	30	30	30	# of Countries	30	30	30	30	30	30
# of Countries P-value Total Evnorts- Total Imports	0.000	0.000	0.000	0.000	0.086	0.869	# of Countries P-value Total Exports- Total Imports	0.000	0.000	0.000	0.000	0.086	0.869
Network Delivert steer dead ensure electronic det	41	0.000	0.000	0.000	0.05 *** -	0.007		0.000	1-4	0.000	0.000	0.080	0.007

Notes: Robust standard errors clustered at the country-level in parentheses." p < 0.1, \*\* p < 0.05, \*\* p < 0.01. AIPW estimates. The dependent variables are 100 times the cumulative change of agricultural, mining, manufacturing, services, and total exports and imports relative to the year prior to the onset of the crisis for years 1-5 after the onset of the crisis. scaled pre-crisis GDP. Accumulated costs over five years. Observations in the treated and control groups are weighted by the propensity scores predicted in the treatment model. Maximum weights truncated at 10.

# Table D.11: Robustness, Maximum weight set to 20, Cumulative trade losses over five years after financial crises

Pane	l I: Exports	(% of pre-c	risis GDP)				Panel II: Imports (% of pre-crisis GDP)						
	(1)	(2)	(3)	(4)	(5)	(6)		(1)	(2)	(3)	(4)	(5)	(6)
	h=0	h=1	h=2	h=3	h=4	h=5		h=0	h=1	h=2	h=3	h=4	h=5
Panel A: Debt Crises							Panel A': Debt Crises						
ATE-AIPW Total	-0.080	-3.186***	-2.749***	-4.965***	-5.193***	-4.224*	ATE-AIPW Total	-3.748***	-8.087***	-7.590***	-8.127***	-8.633***	-8.839**
	(0.548)	(0.646)	(0.849)	(1.291)	(1.693)	(2.526)		(0.760)	(0.935)	(1.596)	(2.012)	(2.515)	(3.475)
ATE-AIPW Agriculture	-0.239	0.069	0.595**	0.730	1.240*	2.661**	ATE-AIPW Agriculture	-0.352***	-0.783***	-0.594**	-0.896***	-1.113***	-0.845**
	(0.220)	(0.244)	(0.301)	(0.504)	(0.706)	(1.181)		(0.117)	(0.118)	(0.233)	(0.218)	(0.271)	(0.333)
ATE-AIPW Mining	1.544***	-0.291	0.188	-0.361	0.203	1.851*	ATE-AIPW Mining	-0.622***	-1.464***	-1.491***	-1.850***	-1.648***	-1.656**
	(0.362)	(0.370)	(0.401)	(0.548)	(0.686)	(1.003)		(0.126)	(0.239)	(0.334)	(0.468)	(0.590)	(0.842)
ATE-AIPW Manufacturing	-0.837***	-2.029***	-2.474***	-3.849***	-4.870***	-5.933***	ATE-AIPW Manufacturing	-1.834***	-4.289***	-3.342***	-3.281***	-3.542**	-4.011*
	(0.186)	(0.308)	(0.413)	(0.539)	(0.731)	(1.128)		(0.492)	(0.595)	(0.968)	(1.231)	(1.573)	(2.202)
ATE-AIPW Services	-0.547***	-0.936***	-1.057***	-1.485***	-1.766***	-2.803***	ATE-AIPW Services	-0.939***	-1.551***	-2.164***	-2.099***	-2.330***	-2.327***
	(0.103)	(0.155)	(0.249)	(0.326)	(0.358)	(0.483)		(0.188)	(0.238)	(0.332)	(0.353)	(0.427)	(0.501)
Observations	732	732	732	732	732	732	Observations	732	732	732	732	732	732
# of Crises	38	38	38	38	38	38	# of Crises	38	38	38	38	38	38
# of Countries	41	41	41	41	41	41	# of Countries	41	41	41	41	41	41
P-value Total Exports= Total Imports	0.000	0.000	0.000	0.021	0.015	0.029	P-value Total Exports= Total Imports	0.000	0.000	0.000	0.021	0.015	0.029
Panel B: Banking Crises							Panel B': Banking Crises						
ATE-AIPW Total	-1.50/***	-5.105***	-5.351***	-5.129***	-7.698***	-7.614***	ATE-AIPW Total	-3.82/***	-8.575***	-9.925***	-10.447***	-11.951***	-13.2/1***
	(0.432)	(0.658)	(0.723)	(0.934)	(1.229)	(1.429)		(0.644)	(1.061)	(1.137)	(1.190)	(1.660)	(1.891)
ATE-AIPW Agriculture	-0.131	-0.40/***	-0.639***	-0.811***	-1.004***	-1.383***	ATE-AIPW Agriculture	-0.350***	-0.488***	-0.683***	-0.956***	-1.244***	-1.518***
	(0.092)	(0.130)	(0.184)	(0.207)	(0.259)	(0.286)	A THE A NUMBER OF C	(0.115)	(0.149)	(0.170)	(0.159)	(0.193)	(0.192)
ATE-AIPW Mining	-0.259	-1.041***	-0.919***	-1.155***	-2.258***	-1.252*	ATE-AIPW Mining	-0.802***	-1.425***	-1./42***	-2.041***	-2.414***	-2.775***
	(0.232)	(0.276)	(0.320)	(0.404)	(0.433)	(0.658)		(0.139)	(0.193)	(0.209)	(0.253)	(0.318)	(0.361)
ATE-AIPW Manufacturing	-0.547*	-1.664***	-1.508***	-0.948	-1.4/0*	-1.559	A IE-AIPW Manufacturing	-2.142***	-5.332***	-5.6/5***	-5.466***	-5.927***	-6.406***
ATE ADD C	(0.193)	(0.459)	(0.528)	(0.040)	(0.802)	(0.997)	ATE ADDIV Comission	(0.572)	(0.085)	(0.722)	(0.708)	(1.084)	(1.280)
ATE-AIF w Services	-0.769****	-1.994****	-2.285****	-2.21/****	-2.967****	-5.419***	ATE-AIF W Services	-0.555****	-1.331****	-1.825****	-1.983****	-2.505****	-2.372***
Observations	722	722	(0.342)	(0.400)	(0.545)	722	Observations	(0.152)	(0.100)	722	(0.281)	(0.328)	(0.369)
# of Crises	34	34	34	34	34	34	# of Crises	34	34	34	34	34	34
# of Countries	41	41	41	41	41	41	# of Countries	41	41	41	41	41	41
P-value Total Exports- Total Imports	0.000	0.000	0.000	0.000	0.000	0.000	P-value Total Exports= Total Imports	0.000	0.000	0.000	0.000	0.000	0.000
T value Total Exports= Total Imports	0.000	0.000	0.000	0.000	0.000	0.000	1 vinte 10til Exportes 10til Importes	0.000	0.000	0.000	0.000	0.000	0.000
Panel C: Currency Crises							Panel C': Currency Crises						
ATE-AIPW Total	-4.289***	-3.923***	-4.340***	-4.417***	-6.314***	-7.098***	ATE-AIPW Total	-8.398***	-9.289***	-8.674***	-9.452***	-9.760***	-8.094***
	(0.497)	(0.620)	(0.918)	(1.114)	(1.285)	(1.619)		(0.790)	(0.903)	(1.243)	(1.544)	(1.869)	(2.475)
ATE-AIPW Agriculture	0.042	-0.127	0.011	-0.037	0.120	0.451	ATE-AIPW Agriculture	-0.684***	-0.693***	-0.744***	-0.976***	-0.730***	-0.502**
Ū.	(0.113)	(0.211)	(0.422)	(0.454)	(0.396)	(0.550)	0	(0.145)	(0.117)	(0.156)	(0.162)	(0.202)	(0.256)
ATE-AIPW Mining	-0.867***	-1.007***	-1.485***	-1.407***	-2.445***	-2.810***	ATE-AIPW Mining	-1.751***	-1.403***	-1.668***	-1.866***	-2.679***	-2.593***
Ū.	(0.249)	(0.252)	(0.405)	(0.408)	(0.442)	(0.548)	0	(0.157)	(0.206)	(0.308)	(0.366)	(0.385)	(0.606)
ATE-AIPW Manufacturing	-2.511***	-2.195***	-2.434***	-2.924***	-3.789***	-4.206***	ATE-AIPW Manufacturing	-4.875***	-5.985***	-5.068***	-5.458***	-5.487***	-4.359***
0	(0.296)	(0.351)	(0.401)	(0.565)	(0.675)	(0.807)	0	(0.490)	(0.566)	(0.727)	(0.898)	(1.121)	(1.400)
ATE-AIPW Services	-0.954***	-0.594***	-0.433	-0.049	-0.200	-0.533	ATE-AIPW Services	-1.088***	-1.208***	-1.194***	-1.151***	-0.864**	-0.639
	(0.120)	(0.217)	(0.286)	(0.423)	(0.505)	(0.590)		(0.116)	(0.182)	(0.257)	(0.330)	(0.387)	(0.430)
Observations	732	732	732	732	732	732	Observations	732	732	732	732	732	732
# of Crises	36	36	36	36	36	36	# of Crises	36	36	36	36	36	36
# of Countries	41	41	41	41	41	41	# of Countries	41	41	41	41	41	41
P-value Total Exports= Total Imports	0.000	0.000	0.000	0.000	0.001	0.452	P-value Total Exports= Total Imports	0.000	0.000	0.000	0.000	0.001	0.452
Notes Debugt stored and short short and at	the constant 1	lassed in manage	alana ka	01 **	0.05 ***	+ 0.01 A IDW	antimates. The demondent contribution of 100 size	and the summer	Indiana altana	f i 1e-	and mainting	and the standard	

Note: Robust standard errors clustered at the country-level in parentheses." p < 0.1, \*\* p < 0.05, \*\* p < 0.01. AIPW estimates. The dependent variables are 100 times the cumulative change of agricultural, mining, manufacturing, services, and total exports and imports relative to the year prior to the onset of the crisis for years 1-5 after the onset of the crisis, scaled pre-crisis GDP. Accumulated costs over five years. Observations in the treated and control groups are weighted by the propensity scores predicted in the treatment model. Maximum weights truncated at 10.

# Table D.12: Robustness, Maximum weight set to 5, Cumulative trade losses over five years after financial crises

Panel I: Exports (% of pre-crisis GDP)							Par	el II: Impor	ts (% of pre	-crisis GDP	)		
	(1)	(2)	(3)	(4)	(5)	(6)		(1)	(2)	(3)	(4)	(5)	(6)
	h=0	h=1	h=2	h=3	h=4	h=5		h=0	h=1	h=2	h=3	h=4	h=5
Panel A: Debt Crises							Panel A': Debt Crises						
ATE-AIPW Total	-0.404	-3.766***	-3.717***	-6.236***	-6.823***	-6.020***	ATE-AIPW Total	-4.413***	-9.211***	-9.623***	-10.631***	-11.542***	-11.879***
	(0.250)	(0.364)	(0.479)	(0.668)	(0.824)	(1.058)		(0.333)	(0.511)	(0.725)	(0.979)	(1.244)	(1.639)
ATE-AIPW Agriculture	-0.163**	-0.058	0.356***	0.359*	0.820***	2.174***	ATE-AIPW Agriculture	-0.423***	-0.941***	-0.870***	-1.092***	-1.364***	-1.181***
	(0.074)	(0.093)	(0.126)	(0.187)	(0.241)	(0.352)		(0.055)	(0.067)	(0.092)	(0.126)	(0.147)	(0.192)
ATE-AIPW Mining	1.175***	-0.659***	-0.301	-0.882***	-0.580*	0.756*	ATE-AIPW Mining	-0.685***	-1.626***	-1.836***	-2.378***	-2.224***	-2.277***
	(0.150)	(0.162)	(0.200)	(0.271)	(0.319)	(0.411)		(0.077)	(0.119)	(0.156)	(0.212)	(0.268)	(0.368)
ATE-AIPW Manufacturing	-0.913***	-2.142***	-2.721***	-4.163***	-5.252***	-6.116***	ATE-AIPW Manufacturing	-2.296***	-5.006***	-4.604***	-4.822***	-5.380***	-5.893***
	(0.124)	(0.214)	(0.283)	(0.366)	(0.461)	(0.578)		(0.211)	(0.325)	(0.447)	(0.591)	(0.741)	(0.964)
ATE-AIPW Services	-0.503***	-0.907***	-1.052***	-1.550***	-1.811***	-2.834***	ATE-AIPW Services	-1.009***	-1.637***	-2.312***	-2.339***	-2.575***	-2.528***
	(0.073)	(0.115)	(0.163)	(0.214)	(0.260)	(0.329)		(0.075)	(0.110)	(0.151)	(0.185)	(0.226)	(0.272)
Observations	732	732	732	732	732	732	Observations	732	732	732	732	732	732
# of Crises	38	38	38	38	38	38	# of Crises	38	38	38	38	38	38
# of Countries	41	41	41	41	41	41	# of Countries	41	41	41	41	41	41
P-value Total Exports= Total Imports	0.000	0.000	0.000	0.000	0.000	0.000	P-value Total Exports= Total Imports	0.000	0.000	0.000	0.000	0.000	0.000
Panel B: Banking Crises	1.550444	5.510000	C 01 (000	5.050444	0.740***	0.041444	Panel B': Banking Crises	0.000000	0.750444	10.466666	10.017444	10 541000	14 17 4000
ATE-AIPW Iotal	-1.558***	-5.542***	-6.014***	-5.958***	-8.742***	-9.041***	ATE-AIPW Iotai	-3.602***	-8./58***	-10.466***	-10.81/***	-12.541***	-14.1/4***
	(0.259)	(0.423)	(0.546)	(0.658)	(0.824)	(0.965)		(0.365)	(0.669)	(0.824)	(0.963)	(1.234)	(1.415)
ATE-AIPW Agriculture	-0.050	-0.409***	-0./15***	-0.863***	-1.051***	-1.415***	ATE-AIPW Agriculture	-0.35/***	-0.53/***	-0./60***	-1.032***	-1.339***	-1.565***
ATE ADD Mining	(0.057)	(0.079)	(0.110)	(0.154)	(0.156)	(0.178)	ATE ADD Mining	(0.053)	(0.085)	(0.099)	(0.112)	(0.142)	(0.157)
ATE-AIPW Mining	-0.392***	-1.1/5***	-0.996***	-1.500***	-2.419***	-1.659***	A IE-AIPW Mining	-0.696***	-1.4/8***	-1.860***	-2.105***	-2.604***	-3.084***
ATE ADD Manufacturing	(0.129)	(0.207)	(0.260)	(0.282)	(0.323)	(0.413)	ATE ADD M	(0.093)	(0.141)	(0.169)	(0.203)	(0.249)	(0.281)
ATE-AIF w Manufacturing	-0.559***	-1.955****	-1.927***	-1.430****	-2.142****	-2.3/1***	ATE-AIr w Manufacturing	-1.998****	-5.451****	-5.991****	-5.652***	-0.143****	-0.881
ATE AIDW Sources	(0.155)	2.006888	(0.514) 2 2708**	(0.398)	2 120***	2 507***	ATE ADW Somioor	(0.211)	(0.405)	(0.494) 1.955±±±	(0.509)	(0.729) 2.455***	(0.850)
ATE-AIF W Services	(0.081)	(0.122)	(0.199)	(0.250)	(0.215)	(0.289)	ATE-AIF w Services	(0.072)	(0.112)	(0.156)	-2.031	(0.225)	(0.256)
Observations	732	732	732	732	732	732	Observations	732	732	732	732	732	732
# of Crises	34	34	34	34	34	34	# of Crises	34	34	34	34	34	34
# of Countries	41	41	41	41	41	41	# of Countries	41	41	41	41	41	41
P-value Total Exports= Total Imports	0.000	0.000	0.000	0.000	0.000	0.000	P-value Total Exports= Total Imports	0.000	0.000	0.000	0.000	0.000	0.000
				01000	01000						0.000	0.000	
Panel C: Currency Crises							Panel C': Currency Crises						
ATE-AIPW Total	-4.785***	-4.526***	-5.213***	-5.588***	-7.321***	-8.365***	ATE-AIPW Total	-9.178***	-10.066***	-10.053***	-11.343***	-11.691***	-10.663***
	(0.274)	(0.370)	(0.502)	(0.642)	(0.758)	(0.935)		(0.386)	(0.514)	(0.697)	(0.881)	(1.078)	(1.310)
ATE-AIPW Agriculture	-0.097*	-0.331***	-0.328**	-0.350**	-0.175	-0.005	ATE-AIPW Agriculture	-0.819***	-0.798***	-0.908***	-1.140***	-0.906***	-0.752***
0	(0.054)	(0.082)	(0.138)	(0.156)	(0.160)	(0.207)	0	(0.054)	(0.061)	(0.084)	(0.095)	(0.118)	(0.138)
ATE-AIPW Mining	-1.054***	-1.154***	-1.687***	-1.779***	-2.614***	-3.177***	ATE-AIPW Mining	-1.875***	-1.600***	-2.004***	-2.377***	-3.141***	-3.263***
-	(0.131)	(0.149)	(0.211)	(0.260)	(0.299)	(0.360)	-	(0.088)	(0.115)	(0.155)	(0.195)	(0.234)	(0.304)
ATE-AIPW Manufacturing	-2.690***	-2.398***	-2.672***	-3.211***	-4.060***	-4.451***	ATE-AIPW Manufacturing	-5.328***	-6.348***	-5.718***	-6.368***	-6.468***	-5.713***
-	(0.156)	(0.220)	(0.283)	(0.367)	(0.454)	(0.555)	-	(0.238)	(0.324)	(0.425)	(0.525)	(0.641)	(0.762)
ATE-AIPW Services	-0.944***	-0.643***	-0.526***	-0.248	-0.472*	-0.731**	ATE-AIPW Services	-1.156***	-1.320***	-1.422***	-1.459***	-1.176***	-0.934***
	(0.077)	(0.122)	(0.173)	(0.259)	(0.285)	(0.330)		(0.072)	(0.104)	(0.147)	(0.197)	(0.231)	(0.256)
Observations	732	732	732	732	732	732	Observations	732	732	732	732	732	732
# of Crises	36	36	36	36	36	36	# of Crises	36	36	36	36	36	36
# of Countries	41	41	41	41	41	41	# of Countries	41	41	41	41	41	41
P-value Total Exports= Total Imports	0.000	0.000	0.000	0.000	0.000	0.004	P-value Total Exports= Total Imports	0.000	0.000	0.000	0.000	0.000	0.004
Manager Dahmart standard second allocations days	the country	lessed in memory		01 **	0.05 ***	< 0.01 A IDW	antimates. The demonstration in his and 100 time		Indiana alterna	f 14-		······	

Note: Robust standard errors clustered at the country-level in parentheses." p < 0.1, \*\* p < 0.05, \*\* p < 0.01. AIPW estimates. The dependent variables are 100 times the cumulative change of agricultural, mining, manufacturing, services, and total exports and imports relative to the year prior to the onset of the crisis for years 1-5 after the onset of the crisis, scaled pre-crisis GDP. Accumulated costs over five years. Observations in the treated and control groups are weighted by the propensity scores predicted in the treatment model. Maximum weights truncated at 10.

Table D.13: Robustness, Alternative sources and definitions of crises, Cumulative trade losses over five years after financial crises

Panel I: Exports (% of pre-crisis GDP)							Par	el II: Impor	rts (% of pro	e-crisis GDP	)		
	(1)	(2)	(3)	(4)	(5)	(6)		(1)	(2)	(3)	(4)	(5)	(6)
	h=0	h=1	h=2	h=3	h=4	h=5		h=0	h=1	h=2	h=3	h=4	h=5
Panel A: Debt Crises							Panel A': Debt Crises						
ATE-AIPW Total	-1.408***	-2.015***	-3.179***	-4.189***	-5.069***	-5.063***	ATE-AIPW Total	-3.102***	-5.427***	-5.799***	-4.693***	-4.553***	-2.668
	(0.384)	(0.551)	(0.769)	(1.102)	(1.256)	(1.611)		(0.464)	(0.702)	(1.044)	(1.385)	(1.582)	(1.806)
ATE-AIPW Agriculture	0.151	0.212	0.574***	0.401	0.466	1.195***	ATE-AIPW Agriculture	-0.286***	-0.422***	-0.429***	-0.318*	-0.359**	-0.191
	(0.115)	(0.160)	(0.216)	(0.338)	(0.353)	(0.432)		(0.078)	(0.092)	(0.112)	(0.191)	(0.161)	(0.184)
ATE-AIPW Mining	-0.589**	-0.961***	-1.262***	-1.445***	-1.474***	-1.393**	ATE-AIPW Mining	-0.296***	-0.614***	-0.905***	-1.289***	-1.556***	-1.478***
	(0.239)	(0.251)	(0.349)	(0.481)	(0.518)	(0.672)		(0.084)	(0.128)	(0.198)	(0.259)	(0.303)	(0.471)
ATE-AIPW Manufacturing	-0.743***	-1.010***	-2.167***	-2.953***	-3.993***	-4.949***	ATE-AIPW Manufacturing	-1.642***	-3.224***	-3.412***	-2.116**	-1.952*	-0.854
	(0.131)	(0.269)	(0.367)	(0.493)	(0.633)	(0.786)		(0.305)	(0.461)	(0.663)	(0.878)	(0.997)	(1.059)
ATE-AIPW Services	-0.227***	-0.257*	-0.325	-0.192	-0.068	0.084	ATE-AIPW Services	-0.878***	-1.168***	-1.053***	-0.970***	-0.686**	-0.145
	(0.082)	(0.133)	(0.199)	(0.240)	(0.312)	(0.398)		(0.111)	(0.163)	(0.230)	(0.249)	(0.288)	(0.315)
Observations	590	590	590	590	590	590	Observations	590	590	590	590	590	590
# of Crises	41	41	41	41	41	41	# of Crises	41	41	41	41	41	41
# of Countries	31	31	31	31	31	31	# of Countries	31	31	31	31	31	31
P-value Total Exports= Total Imports	0.000	0.000	0.001	0.552	0.559	0.014	P-value Total Exports= Total Imports	0.000	0.000	0.001	0.552	0.559	0.014
							D IN D I: C:						
Panel B: Banking Crises	1.505444	1.10 ( 0.00	5 170000	< 001444	0.050444	0.170444	Panel B': Banking Crises	2.170444	c 02cese	7.000444	0.00.1666	0.700****	10 120555
ATE-AIPW Iotal	-1.525***	-4.126***	-5.4/5***	-6.291***	-8.058***	-8.4/0***	ATE-AIPW Iotai	-3.1/9***	-6.036***	-/.585***	-8.524***	-8.729***	-10.438***
	(0.340)	(0.4/4)	(0.589)	(0.789)	(1.044)	(1.252)		(0.529)	(0.761)	(0.952)	(1.048)	(1.325)	(1.577)
ATE-AIPW Agriculture	-0.117	-0.196	-0.325*	-0.349	-0.5/4**	-0.300	A IE-AIPW Agriculture	-0.551***	-0.446***	-0.464***	-0.699***	-0.6/0***	-0.908***
ATE ADV Mining	(0.095)	(0.151)	(0.195)	(0.219)	(0.257)	(0.334)	ATE ADDIVING	(0.115)	(0.118)	(0.155)	(0.139)	(0.139)	(0.100)
ATE-AIF W Mining	-0.414****	-1.211****	-1.4/0****	-1./00****	-2.559****	-1.958****	A IE-AIF W Mining	-0.550***	-0.590****	-0.951****	-1.50/****	-1.0/0****	-1.885***
ATE AIDW Monufacturing	0.650888	1 722888	2 2208**	2 712***	2 216***	4 211888	ATE ADW Monufacturing	2 152***	(0.132)	(0.157)	(0.178) 5 197***	4 006***	(0.290) 5 760888
ATE-AIr w Manufacturing	(0.200)	(0.202)	(0.408)	(0.555)	(0.706)	(0.826)	ATE-AIF w Manufacturing	(0.229)	(0.516)	(0.620)	(0.717)	-4.900	-5.700***
ATE-AIPW Services	0 335***	.0.986***	-1 333***	-1 470***	-1.830***	-1 022***	ATE-AIPW Services	-0.345***	-0.827***	-1 123***	-1.075***	-1 /183***	-1 887***
ATE-AII W SCI VICES	(0.102)	(0.168)	(0.220)	(0.264)	(0.336)	(0.392)	All-All wold week	(0.095)	(0.114)	(0.180)	(0.205)	(0.229)	(0.263)
Observations	590	590	590	590	590	590	Observations	590	590	590	590	590	590
# of Crises	44	44	44	44	44	44	# of Crises	44	44	44	44	44	44
# of Countries	31	31	31	31	31	31	# of Countries	31	31	31	31	31	31
P-value Total Exports= Total Imports	0.001	0.001	0.006	0.004	0.379	0.063	P-value Total Exports= Total Imports	0.001	0.001	0.006	0.004	0.379	0.063
<b>i</b>													
Panel C: Currency Crises							Panel C': Currency Crises						
ATE-AIPW Total	-0.609	-3.360***	-4.102***	-3.490***	-4.686***	-5.157***	ATE-AIPW Total	-0.548	-5.051***	-5.245***	-3.995***	-5.357***	-4.713**
	(0.462)	(0.656)	(0.727)	(0.945)	(1.332)	(1.739)		(0.512)	(0.762)	(0.958)	(1.163)	(1.473)	(2.081)
ATE-AIPW Agriculture	0.003	-0.317*	-0.475***	-0.507**	-0.616***	-0.584**	ATE-AIPW Agriculture	-0.092	-0.484***	-0.508***	-0.408***	-0.653***	-0.475**
	(0.168)	(0.175)	(0.182)	(0.222)	(0.229)	(0.296)		(0.060)	(0.083)	(0.108)	(0.140)	(0.156)	(0.207)
ATE-AIPW Mining	-0.394	-1.075***	-1.147***	-1.115***	-1.933***	-2.186***	ATE-AIPW Mining	0.028	-0.861***	-0.953***	-0.968***	-1.219***	-1.239***
	(0.248)	(0.275)	(0.348)	(0.407)	(0.478)	(0.577)		(0.124)	(0.149)	(0.175)	(0.217)	(0.258)	(0.361)
ATE-AIPW Manufacturing	0.075	-0.994***	-1.309***	-0.894	-1.150	-0.984	ATE-AIPW Manufacturing	-0.424	-3.112***	-2.973***	-1.941**	-2.783***	-2.315*
	(0.220)	(0.383)	(0.473)	(0.656)	(0.934)	(1.262)		(0.331)	(0.533)	(0.668)	(0.823)	(1.023)	(1.398)
ATE-AIPW Services	-0.294**	-0.974***	-1.171***	-0.975***	-0.988**	-1.403***	ATE-AIPW Services	-0.059	-0.594***	-0.811***	-0.679***	-0.702**	-0.684*
	(0.121)	(0.194)	(0.245)	(0.318)	(0.432)	(0.462)		(0.111)	(0.129)	(0.181)	(0.218)	(0.291)	(0.370)
Observations	590	590	590	590	590	590	Observations	590	590	590	590	590	590
# of Crises	69	69	69	69	69	69	# of Crises	69	69	69	69	69	69
# of Countries	31	31	31	31	31	31	# of Countries	31	31	31	31	31	31
P-value Total Exports= Total Imports	0.898	0.004	0.154	0.590	0.557	0.715	P-value Total Exports= Total Imports	0.898	0.004	0.154	0.590	0.557	0.715
Notes: Robust standard arrows alustared at	the country	lowel in norm	nthacac \$ n -	<01 ** n <	0.05 *** 0	< 0.01 AIDW	actimates. The dependent veriables are 100 tip	noc the ourse	dotivo obono	a of agricults	wol mining	monufooturin	a comicos

Notes: Robust standard errors clustered at the country-level in parentheses  $\theta > 0.1, ** p < 0.05, *** p < 0.01$ . AIPW estimates. The dependent variables are 100 times the cumulative change of agricultural, mining, manufacturing, services, and total exports and imports relative to the year prior to the onset of the crisis for years 1-5 after the onset of the crisis, scaled pre-crisis GDP. Accumulated costs over five years. Observations in the treated and control groups are weighted by the propensity scores predicted in the treatment model. Maximum weights truncated at 10.

Table D.14: Robustness, Inverse Probability Weighted (IPW) estimator, Cumulative trade losses over five years after financial crises

1) <th colspan="7">Panel I: Exports (% of pre-crisis GDP)</th> <th>Par</th> <th>nel II: Impor</th> <th>ts (% of pre</th> <th>-crisis GDP</th> <th>)</th> <th></th> <th></th>	Panel I: Exports (% of pre-crisis GDP)							Par	nel II: Impor	ts (% of pre	-crisis GDP	)		
Image: bot of the set of th		(1)	(2)	(3)	(4)	(5)	(6)		(1)	(2)	(3)	(4)	(5)	(6)
Panel A. Dela Crise		h=0	h=1	h=2	h=3	h=4	h=5		h=0	h=1	h=2	h=3	h=4	h=5
ATE-IPV Tail  1.212***  2.562***  3.582***  3.581***  5.585***  6.225***  7.582***  5.585***  6.225***  7.582***  5.585***  5.555*** 5.555***  5.555*** <	Panel A: Debt Crises							Panel A': Debt Crises						
0.2840.2880.1870.1490.2890.2990.2000.2100.2100.2130.2310.2310.2330.2330.03300.03000.2990.2000.2100.2100.231 <t< th=""><th>ATE-IPW Total</th><th>-1.217***</th><th>-2.667***</th><th>-3.576***</th><th>-5.509***</th><th>-5.567***</th><th>-4.068***</th><th>ATE-IPW Total</th><th>-5.012***</th><th>-5.826***</th><th>-6.225***</th><th>-7.082***</th><th>-5.982***</th><th>-3.581***</th></t<>	ATE-IPW Total	-1.217***	-2.667***	-3.576***	-5.509***	-5.567***	-4.068***	ATE-IPW Total	-5.012***	-5.826***	-6.225***	-7.082***	-5.982***	-3.581***
ATE-IPV Agriculture    -0.264    0.134    0.488**    0.995**    0.195**    0.288**    0.995**    0.995**    0.995**    0.995**    0.995**    0.995**    0.995**    0.995**    0.995**    0.995**    0.995**    0.995**    0.935    0.035 <t< th=""><th></th><th>(0.284)</th><th>(0.898)</th><th>(1.112)</th><th>(1.164)</th><th>(1.066)</th><th>(0.850)</th><th></th><th>(0.838)</th><th>(1.027)</th><th>(1.407)</th><th>(2.219)</th><th>(1.460)</th><th>(0.280)</th></t<>		(0.284)	(0.898)	(1.112)	(1.164)	(1.066)	(0.850)		(0.838)	(1.027)	(1.407)	(2.219)	(1.460)	(0.280)
0.0300    0.0214    0.0480    0.0224    0.0597    0.0597    0.0235    0.0313    0.0237    0.0417      0.0597    0.0474    0.0259    0.0259    0.0395    0.0597    0.0217    0.0333    0.0223    0.0333    0.0233    0.0333    0.0213    0.0333    0.0213    0.0333    0.0213    0.0333    0.0213    0.0333    0.0213    0.0333    0.0213    0.0333    0.0213    0.0333    0.0213    0.0213    0.0333    0.0213	ATE-IPW Agriculture	-0.246	0.134	$0.488^{***}$	0.940***	1.325**	2.702*	ATE-IPW Agriculture	-0.405***	-0.588***	-0.795***	-1.074***	-0.823**	-0.396***
ATE-IPV Mining  0.427  0.029  0.428  0.461  0.602  0.478  0.6079  0.739		(0.300)	(0.241)	(0.186)	(0.224)	(0.549)	(1.387)		(0.096)	(0.167)	(0.228)	(0.318)	(0.327)	(0.067)
(0.253)    (0.493)    (0.253)    (0.213)    (0.253)    (0.213)    (0.253)    (0.213)    (0.213)    (0.213)    (0.213)    (0.213)    (0.213)    (0.213)    (0.213)    (0.213)    (0.214)    (0.321)    (0.253)    (0.214)    (0.321)    (0.214)    (0.321)    (0.314)    (0.314)    (0.314)    (0.315)    (0.314)    (0.315)    (0.314)    (0.315) <t< th=""><th>ATE-IPW Mining</th><th>0.474*</th><th>-0.029</th><th>-0.252</th><th>-1.069***</th><th>-0.461</th><th>0.602</th><th>ATE-IPW Mining</th><th>-0.501**</th><th>-0.733***</th><th>-1.183***</th><th>-1.607***</th><th>-1.472***</th><th>-0.441***</th></t<>	ATE-IPW Mining	0.474*	-0.029	-0.252	-1.069***	-0.461	0.602	ATE-IPW Mining	-0.501**	-0.733***	-1.183***	-1.607***	-1.472***	-0.441***
ATTE-IPV Manuficturing  0.072***  0.072***  0.072***  0.072***  0.072***  0.074***  0.074***  0.074***  0.074***  0.074***  0.074***  0.074***  0.074***  0.074***  0.074***  0.074***  0.074***  0.074***  0.074*****  0.074****  0.074******  0.074******  0.074******  0.074***********************************		(0.253)	(0.493)	(0.380)	(0.256)	(0.398)	(0.702)		(0.199)	(0.253)	(0.333)	(0.282)	(0.335)	(0.099)
(0.25)    (0.358)    (0.555)    (0.575)    (0.921)    (1.067)    (1.221)    (1.224)    (0.424)    (0.747)    (1.123)    (0.029)    (0.747)    (1.123)    (0.029)    (0.747)    (1.123)    (0.029)    (0.747)    (1.123)    (0.021) <t< th=""><th>ATE-IPW Manufacturing</th><th>-0.793***</th><th>-1.551***</th><th>-2.414***</th><th>-3.646***</th><th>-4.360***</th><th>-4.986***</th><th>ATE-IPW Manufacturing</th><th>-3.042***</th><th>-3.047***</th><th>-2.735***</th><th>-2.826**</th><th>-2.125**</th><th>-1.960***</th></t<>	ATE-IPW Manufacturing	-0.793***	-1.551***	-2.414***	-3.646***	-4.360***	-4.986***	ATE-IPW Manufacturing	-3.042***	-3.047***	-2.735***	-2.826**	-2.125**	-1.960***
ATTE-IPV Services  0.052***  0.122****  1.232****  1.232****  1.232****  1.252***  0.174**  0.055**  0.054**    Observations  732		(0.235)	(0.358)	(0.555)	(0.675)	(0.921)	(1.067)		(0.520)	(0.624)	(0.747)	(1.120)	(0.903)	(0.209)
(h) (12)    (0.302)    (0.303)    <	ATE-IPW Services	-0.652***	-1.221***	-1.398***	-1.735***	-2.071***	-2.387***	ATE-IPW Services	-1.064***	-1.458***	-1.512***	-1.574**	-1.562**	-0.784***
Observations  732		(0.142)	(0.302)	(0.368)	(0.595)	(0.740)	(0.780)		(0.241)	(0.254)	(0.474)	(0.658)	(0.631)	(0.082)
# of Constrises  38 </th <th>Observations</th> <th>732</th> <th>732</th> <th>732</th> <th>732</th> <th>732</th> <th>732</th> <th>Observations</th> <th>732</th> <th>732</th> <th>732</th> <th>732</th> <th>732</th> <th>732</th>	Observations	732	732	732	732	732	732	Observations	732	732	732	732	732	732
# of Countries  41 <th># of Crises</th> <th>38</th> <th>38</th> <th>38</th> <th>38</th> <th>38</th> <th>38</th> <th># of Crises</th> <th>38</th> <th>38</th> <th>38</th> <th>38</th> <th>38</th> <th>38</th>	# of Crises	38	38	38	38	38	38	# of Crises	38	38	38	38	38	38
P-value Total Exports    0.027    0.053    0.119    0.690    0.361    0.434    0.027      Panel B: Banking Crises	# of Countries	41	41	41	41	41	41	# of Countries	41	41	41	41	41	41
Panel B: Banking Crises    Panel B: Banking Crises    Panel B: Banking Crises      ATE-IPW Total    -1.34****    5.601***    -5.263***    -7.786***      ATE-IPW Agriculture    -0.119**    -0.539***    -0.725***    -7.786***      ATE-IPW Maining    -0.539***    -0.722****    -0.819***    -0.910***    -1.032***    -0.535**    -0.655**	P-value Total Exports= Total Imports	0.027	0.053	0.119	0.690	0.361	0.434	P-value Total Exports= Total Imports	0.053	0.119	0.690	0.361	0.434	0.027
Parter IP Standing Crises    Parter IP Standing Crises    Parter IP Standing Crises      ATE-IPW Math    1.344**    5.400***    5.681***    5.263***    7.923***    7.786***      ATE-IPW Main    0.410*    (1.889)    (1.819)    (1.819)    (1.843)    (2.407)    (2.975)    (3.369)    (3.722)    (4.541)    (4.912)    (0.551)      ATE-IPW Maining    0.0282*    1.073*    0.0964*    1.121**    1.344***    5.401***    (0.217)    (0.550)    (0.51)    (0.35)    (0.350)    (0.835)    (0.835)    (0.835)    (0.835)    (0.835)    (0.835)    (0.838)    (A11)    (1.12*)    (1.550)    (2.24*)    (2.24*)    (2.001)    (2.15*)    (2.52*)    (2.57*)    (0.584)    (0.572)    (0.875)    (0.875)    (0.888)    (A14)								B IBI B II GI						
ATE-IPV 10al  -5.44***  5.40***  5.20***  -7.85***  ATE-IPV 10al  -5.20***  -1.85***  -2.53***  -1.85***  -2.53***  -1.85***  -2.53***  -1.85****  -2.53***  -1.85****  -2.53***  -1.25****  -1.25****  -1.25****  -1.25****  -1.25****  -1.25****  -1.25****  -1.25****  -1.25****  -1.25*****  -1.25****  -1.25****  -1.25*****  -1.25*****  -1.25*****	ATE IDAN T-4-1	1 244000	5 400***	5 (01***	5 3 6 2 * * *	7.022***	7 70/***	A TE IDW T-4-1	0.200***	10.412***	10.220***	11.070***	12.020***	2 215***
ATE-IPW Agriculture  (0.1480)  (1.1885)  (1.2445)  (2.445) <th< th=""><th>ATE-IPW IOtal</th><th>-1.544***</th><th>-5.400****</th><th>-3.081****</th><th>-5.205****</th><th>-1.925****</th><th>-7.780****</th><th>A IE-IF W Total</th><th>-9.309***</th><th>-10.412***</th><th>-10.230****</th><th>-11.8/9***</th><th>-12.939***</th><th>-3.313****</th></th<>	ATE-IPW IOtal	-1.544***	-5.400****	-3.081****	-5.205****	-1.925****	-7.780****	A IE-IF W Total	-9.309***	-10.412***	-10.230****	-11.8/9***	-12.939***	-3.313****
ATE-IPW Agriculture  -0.19*  -0.390**  -0.22**  0.080**  -1.19**  -1.39***  -0.000**    ATE-IPW Mining  -0.282**  -1.073*  4.096**  -1.11**  -1.39***  4.090**  -1.19**  -1.39***  4.030**  0.039**  0.039**  0.015**  0.055***	ATTE IDIN A	(0.440)	(1.808)	(1.819)	(1.845)	(2.405)	(2.047)	ATE IDNV A	(2.975)	(3.309)	(3.722)	(4.541)	(4.912)	(0.525)
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	ATE-IF W Agriculture	-0.119**	-0.550****	-0.722****	-0.819****	-0.901****	-1.504****	A IE-IF W Agriculture	-0.521**	-0.055**	-0.809**	-1.149**	-1.554***	-0.561***
ATE-IPW Mining  -0.22*  -1.01*  -1.01**  -1.01**  -1.01**  -1.01**  -1.01**  -1.02**  -1.01**  -1.01**  -1.02**  -1.00***  -0.00***  -0.00***  -0.00***  -0.00***  -0.00***  -0.00***  -0.00***  -0.00***  -0.00*****  -0.00*****  -0.00*****  -0.00*****  -0.00*****  -0.00*******  -0.00******  -0.00***	ATE IDIU Minin-	(0.060)	(0.178)	(0.215)	(0.206)	(0.279)	(0.276)	ATE IDIV Mining	(0.244)	(0.502)	(0.549)	(0.455)	(0.502)	(0.070)
ATE-IPW Manufacturing  0.1219  0.0330  (0.0330)  (0.0331)  0.0331  (0.0332)  (0.0331)  (0.0332)  (0.0331)  (0.0332)  (0.032)  (0.032)  (0.032)  (0.032)  (0.032)  (0.032)  (0.032)  (0.032)  (0.032)  (0.032)  (0.032)  (0.032)  (0.032)  (0.032)  (0.032	ATE-IF W Mining	-0.282**	-1.075*	-0.904*	-1.215***	-2.202****	-1.447*	A IE-IF W Mining	-1.011***	-1.832****	-1.920****	-2.354****	-2.779***	-0.009
ATE-IPW Mainuacturing  -0.198  -1.107***  -1.002***  -1.1012***  -1.1012***  -1.1012***  -1.1012***  -1.1012***  -1.1012***  -1.1012***  -1.1012***  -1.1012***  -1.1012***  -1.1012***  -1.1012***  -1.1012***  -1.1012***	ATE IDIU Manufaturia	(0.127)	(0.550)	(0.551)	(0.514)	(0.055)	(0.855)	ATE IDW Manufacturina	(0.382)	(0.577)	(0.584)	(0.722)	(0.873)	(0.121)
ATE-IPW Services  (0.250)  (0.253)  (0.254)  (0.2153)  (2.1	ATE-IF w Manufacturing	-0.198	-1./0/**	-1.039***	-1.012*	-1./11**	-1./15*	A IE-IF w Manufacturing	-3.798***	-5.9/8****	-5.402**	-5.924**	-0.200**	-1.808
ATE-IPW Services  0.1455****  -2.501******  -2.509******  -2.509******  -2.500*******  -2.500********  -2.500**********  -2.500***********************************	ATE IDIN C	(0.250)	(0.855)	(0.040)	(0.599)	(0.807)	(0.888)	ATE IDIN Consistent	(1.842)	(2.001)	(2.155)	(2.029)	(2.775)	(0.515)
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	ATE-IF W Services	-0.745****	-2.031****	-2.337****	-2.219****	-2.989****	-3.321****	A IE-IF W Services	-1.579***	-1.94/***	-2.040****	-2.452****	-2.000	-0.410
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Observations	(0.105)	722	722	722	722	722	Observations	(0.329)	722	(0.039)	722	(0.795)	722
M CLexits  J4  J4 <thj4< th="">  J4  J4</thj4<>	# of Cwises	24	24	24	24	24	24	# of Cwises	24	24	24	24	24	24
Pradue Total Exports= Total Imports  0.024  0.00  0.000  0.000  0.001  0.002  0.024  0.000  0.002  0.024    Pradue Total Exports= Total Imports  0.000	# of Countries	41	41	41	41	41	41	# of Countries	41	41	41	/1	41	41
Think Tolar Expres    Tolar E	P-value Total Exports- Total Imports	0.024	0.000	0.000	0.000	0.003	0.002	P-value Total Exports- Total Imports	0.000	0.000	0.000	0.003	0.002	0.024
Panel C: Currency Crises    Panel C: Currency Crises    Panel C: Currency Crises      ATE-IPW Total    -2.687*    -3.601***    -4.047***    -4.871***    -6.749***      ATE-IPW Mariculure    0.106    -0.176    0.259    (1.254)    (1.256)    (1.600)    (1.248)      ATE-IPW Mariculure    0.106    -0.176    0.279    0.0130    (0.192)    (0.282)      ATE-IPW Mining    -0.487    -1.046***    -1.496***    -1.75***    -2.481***    -2.481***    -2.481***    -0.41***    -0.634**    -0.634**    -0.634**    -0.634**    -0.634**    -0.634**    -0.634**    -0.634**    -0.634**    -0.634**    -0.634**    -0.634**    -0.634**    -0.634**    -0.634**    -0.634**    -0.54**    -0.634**    -0.634**    -0.54**    -0.634**	1-value 10tal Exports= 10tal Imports	0.024	0.000	0.000	0.000	0.005	0.002	1-value 10tai Exports= 10tai imports	0.000	0.000	0.000	0.005	0.002	0.024
ATE-IPW Total    -2.687*    -3.601***    -4.047***    -4.871***    -6.209***    -6.792***    -8.209***    -8.209***    -9.370***    -9.330***    -6.451***      ATE-IPW Agriculture    0.1360    -0.176    0.279    0.166    0.136    0.550*    ATE-IPW Agriculture    -0.644***    -0.736***    -0.534***    -0.544***      MTE-IPW Maning    -0.457    1.149***    1.775***    -2.818***    2.6478    3.115    (2.305)    (1.92)    0.205)    0.054**    -0.544***    -0.	Panel C: Currency Crises							Panel C': Currency Crises						
(1.387)    (1.256)    (1.256)    (1.526)    (1.600)    (1.600)    (1.600)    (1.600)    (1.600)    (1.617)    (2.018)    (2.078)    (0.018)    (0.018)    (0.197)    (0.377)    (0.377)    (0.377)    (0.377)    (0.378)    (0.377)    (0.378)    (0.378)    (0.378)    (0.377)    (0.378)    (0.378)    (0.378)    (0.377)    (0.378)    (0.388)    (0.378)    (0.378) <t< th=""><th>ATE-IPW Total</th><th>-2.687*</th><th>-3.601***</th><th>-4.047***</th><th>-4.871***</th><th>-6.220***</th><th>-6.749***</th><th>ATE-IPW Total</th><th>-7.923***</th><th>-8.230***</th><th>-8.786***</th><th>-9.370***</th><th>-8.338***</th><th>-6.451***</th></t<>	ATE-IPW Total	-2.687*	-3.601***	-4.047***	-4.871***	-6.220***	-6.749***	ATE-IPW Total	-7.923***	-8.230***	-8.786***	-9.370***	-8.338***	-6.451***
ATE-IPW Agriculture    0.106    0.176    0.279    0.106    0.136    0.587    ATE-IPW Agriculture    0.644**    0.764***    0.764***    0.634**    0.634***    0.634**    0.634***    0.634***    0.634***    0.634***    0.634***    0.764***    0.764***    0.764***    0.764***    0.764***    0.764***    0.764***    0.764***    0.764***    0.764***    0.764***    0.764***    0.764***    0.764***    0.634**    0.634**    0.634**    0.634**    0.764**    0.764*** <th< th=""><th></th><th>(1.387)</th><th>(1.256)</th><th>(1.254)</th><th>(1.526)</th><th>(1.600)</th><th>(1.248)</th><th></th><th>(2.038)</th><th>(2.072)</th><th>(2.678)</th><th>(3.115)</th><th>(2.305)</th><th>(1.924)</th></th<>		(1.387)	(1.256)	(1.254)	(1.526)	(1.600)	(1.248)		(2.038)	(2.072)	(2.678)	(3.115)	(2.305)	(1.924)
(0.174)    (0.157)    (0.133)    (0.193) <t< th=""><th>ATE-IPW Agriculture</th><th>0.106</th><th>-0.176</th><th>0.279</th><th>0.106</th><th>0.136</th><th>0.550*</th><th>ATE-IPW Agriculture</th><th>-0.644***</th><th>-0.749***</th><th>-0.857***</th><th>-0.736**</th><th>-0.634**</th><th>-0.584***</th></t<>	ATE-IPW Agriculture	0.106	-0.176	0.279	0.106	0.136	0.550*	ATE-IPW Agriculture	-0.644***	-0.749***	-0.857***	-0.736**	-0.634**	-0.584***
ATE-IPW Mining    -0.487    -1.046***    -1.43***    -2.18***    -2.218***    -2.063***    -1.210***      MTE-IPW Manufacturing    -1.42***    -1.872***    -2.481***    -2.063***    -1.210***      ATE-IPW Manufacturing    -1.42***    -1.872***    -2.481***    -2.481***    -2.63***    -2.063***    -2.20***    -2.30**    -2.063***    -2.20***    -2.30**    -2.063***    -2.20***    -2.30**    -2.063***    -2.20***    -2.30**    -2.20***    -2.30**    -2.20***    -2.30***    -2.30***    -2.20***    -2.30***    -2.20***    -2.32***    -2.32***    -2.32***    -2.32***    -2.32***    -2.32***    -2.32***    -2.32***    -2.32***    -2.32***    -2.32***    -2.32*** <td< th=""><th></th><th>(0.174)</th><th>(0.157)</th><th>(0.313)</th><th>(0.193)</th><th>(0.192)</th><th>(0.282)</th><th></th><th>(0.192)</th><th>(0.240)</th><th>(0.304)</th><th>(0.336)</th><th>(0.293)</th><th>(0.144)</th></td<>		(0.174)	(0.157)	(0.313)	(0.193)	(0.192)	(0.282)		(0.192)	(0.240)	(0.304)	(0.336)	(0.293)	(0.144)
(0.297)    (0.297)    (0.318)    (0.418)    (0.418)    (0.424)    (0.326)    (0.372)    (0.372)    (0.372)    (0.372)    (0.373)    (0.303)    (0.375) <t< th=""><th>ATE-IPW Mining</th><th>-0.487</th><th>-1.046***</th><th>-1.449***</th><th>-1.775***</th><th>-2.481***</th><th>-2.447***</th><th>ATE-IPW Mining</th><th>-1.415***</th><th>-1.839***</th><th>-2.158***</th><th>-2.620***</th><th>-2.063***</th><th>-1.210***</th></t<>	ATE-IPW Mining	-0.487	-1.046***	-1.449***	-1.775***	-2.481***	-2.447***	ATE-IPW Mining	-1.415***	-1.839***	-2.158***	-2.620***	-2.063***	-1.210***
ATE-IPW Manufacturing    -1.42?**    -1.872***    -2.436***    -2.911***    -3.557***    -3.922***    ATE-IPW Manufacturing    -4.759***    -4.631***    -4.631***    -5.08***    -5.08***    -3.23***      0.705    0.0429    0.0429    0.642    0.668    0.50*    1.029    1.129*    1.10***    -1.10***	-	(0.297)	(0.297)	(0.318)	(0.418)	(0.424)	(0.366)	-	(0.372)	(0.324)	(0.377)	(0.503)	(0.376)	(0.356)
ATE-IPW Services    (0.705)    (0.577)    (0.429)    (0.542)    (0.686)    (0.507)    (1.209)    (1.278)    (1.800)    (1.326)    (1.197)      ATE-IPW Services    0.507****    0.506    0.404    0.022    0.518    0.931*    ATE-IPW Services    1.105***    1.105***    1.005**    1.105***    1.005*    1.105***    1.005**    1.105***    1.005**    1.105***    1.005**    1.105***    1.005**    1.105***    1.005**    1.105***    1.005**    1.105***    1.005**    1.105***    1.005**    1.105***    1.005***    1.105****    1.005***    1.105****    1.005***    1.105****    1.005****    1.005*****    1.005*********    1.005*********    1.005***********************************	ATE-IPW Manufacturing	-1.427**	-1.872***	-2.436***	-2.911***	-3.557***	-3.922***	ATE-IPW Manufacturing	-4.759***	-4.541***	-4.631***	-5.008***	-4.520***	-3.723***
ATE-IPW Services    -0.879***    -0.506    -0.440    -0.292    -0.318    -0.931*      0.242    (0.309    (0.451)    (0.575)    (0.531)    (0.575)    (0.531)    (0.575)    (0.531)    (0.521)    (0.253)    (0.203)    (0.309)    (0.41)    (0.575)    (0.531)    (0.575)    (0.531)    (0.575)    (0.531)    (0.521)    (0.523)    (0.521)    (0.523)    (0.521)    (0.523)    (0.521)    (0.523)    (0.521)    (0.523)    (0.521)    (0.523)    (0.521)    (0.523)    (0.521)    (0.523)    (0.521)    (0.523)    (0.521)    (0.523)    (0.521)    (0.523)    (0.521)    (0.523)    (0.521)    (0.523)    (0.521)    (0.523)    (0.521)    (0.523)    (0.521)    (0.523)    (0.521)    (0.523)    (0.521)    (0.521)    (0.521)    (0.523)    (0.521)    (0.521)    (0.521)    (0.521)    (0.521)    (0.521)    (0.521)    (0.521)    (0.521)    (0.521)    (0.521)    (0.521)    (0.521)    (0.521)    (0.521)    (	-	(0.705)	(0.577)	(0.429)	(0.542)	(0.686)	(0.560)	-	(1.209)	(1.278)	(1.580)	(1.800)	(1.326)	(1.197)
(0.24)    (0.309)    (0.451)    (0.575)    (0.531)    (0.575)    (0.531)    (0.575)    (0.531)    (0.575)    (0.531)    (0.523)    (0.233)    (0.521)    (0.523)    (0.521)    (0.523)    (0.521)    (0.523)    (0.521)    (0.523)    (0.521)    (0.523)    (0.521)    (0.523)    (0.521)    (0.521)    (0.521) <th< th=""><th>ATE-IPW Services</th><th>-0.879***</th><th>-0.506</th><th>-0.440</th><th>-0.292</th><th>-0.318</th><th>-0.931*</th><th>ATE-IPW Services</th><th>-1.105***</th><th>-1.100***</th><th>-1.139**</th><th>-1.005*</th><th>-1.121**</th><th>-0.934***</th></th<>	ATE-IPW Services	-0.879***	-0.506	-0.440	-0.292	-0.318	-0.931*	ATE-IPW Services	-1.105***	-1.100***	-1.139**	-1.005*	-1.121**	-0.934***
Observations    732    733 <t< th=""><th></th><th>(0.242)</th><th>(0.309)</th><th>(0.451)</th><th>(0.575)</th><th>(0.531)</th><th>(0.505)</th><th></th><th>(0.300)</th><th>(0.366)</th><th>(0.505)</th><th>(0.533)</th><th>(0.521)</th><th>(0.253)</th></t<>		(0.242)	(0.309)	(0.451)	(0.575)	(0.531)	(0.505)		(0.300)	(0.366)	(0.505)	(0.533)	(0.521)	(0.253)
# of Crises    36	Observations	732	732	732	732	732	732	Observations	732	732	732	732	732	732
# of Countries    41    41    41    41    # of Countries    41 <th< th=""><th># of Crises</th><th>36</th><th>36</th><th>36</th><th>36</th><th>36</th><th>36</th><th># of Crises</th><th>36</th><th>36</th><th>36</th><th>36</th><th>36</th><th>36</th></th<>	# of Crises	36	36	36	36	36	36	# of Crises	36	36	36	36	36	36
P-value Total Exports= Total Imports 0.000 0.000 0.004 0.004 0.028 0.376 P-value Total Exports= Total Imports 0.000 0.004 0.004 0.028 0.376 0.000	# of Countries	41	41	41	41	41	41	# of Countries	41	41	41	41	41	41
	P-value Total Exports= Total Imports	0.000	0.000	0.004	0.004	0.028	0.376	P-value Total Exports= Total Imports	0.000	0.004	0.004	0.028	0.376	0.000

Note: Robust standard errors clustered at the country-level in parentheses.\* p < 0.1; \*\* p < 0.05; Robust standard errors clustered at the country-level in parentheses.\* p < 0.1; \*\* p < 0.05; \*\*\* p < 0.01. IPW estimates. The dependent variables are 100 times the cumulative change of agricultural, mining, manufacturing, services, and total exports and imports relative to the year prior to the onset of the crisis for years 1-5 after the onset of the crisis, scaled pre-crisis GDP. Accumulated costs over five years. Observations in the treated and control groups are weighted by the propensity scores predicted in the treatment model. Maximum weights truncated at 10.

Table A.15a: Channels, Cumulative trade losses over five years after debt crises with higher and lower manufacturing exports

Panel I: Exports (% of pre-crisis GDP)							Panel	l II: Impor	ts (% of pr	e-crisis GD	P)		
	(1)	(2)	(3)	(4)	(5)	(6)		(1)	(2)	(3)	(4)	(5)	(6)
	h=0	h=1	h=2	h=3	h=4	h=5		h=0	h=1	h=2	h=3	h=4	h=5
	Panel	A: Debt cri	ises					Panel	A: Debt cr	ises			
Panel a: Total							Panel a: Total						
ATE-AIPW High	-1.621***	-1.750***	-2.203***	-3.785***	-4.775***	-3.693***	ATE-AIPW High	-2.023***	-3.473***	-3.523***	-3.911***	-4.280***	-3.274**
	(0.300)	(0.480)	(0.620)	(0.812)	(1.002)	(1.285)		(0.505)	(0.641)	(0.937)	(1.123)	(1.399)	(1.633)
ATE-AIPW Low	-0.649*	-3.375***	-4.900***	-7.863***	-7.811***	-7.610***	ATE-AIPW Low	-3.935***	-6.851***	-7.775***	-9.486***	-10.617***	-10.384***
	(0.336)	(0.455)	(0.620)	(0.873)	(1.091)	(1.437)		(0.540)	(0.692)	(1.014)	(1.225)	(1.539)	(2.014)
P-value High=Low	0.000	0.000	0.000	0.000	0.000	0.000	P-value High=Low	0.000	0.000	0.000	0.000	0.000	0.000
Avg.(trade) in countries above cutoff	3.030	6.212	9.802	13.553	17.101	21.167	Avg.(trade) in countries above cutoff	3.678	7.557	11.744	16.187	20.486	25.232
Avg.(trade) in countries below cutoff	2.844	5.659	8.548	11.798	14.526	17.317	Avg.(trade) in countries below cutoff	3.305	6.505	9.622	13.326	17.041	20.623
Panel b: Agriculture							Panel b: Agriculture						
ATE-AIPW High	-0.645***	-0.090	-0.103	0.229	0.246	1.188 * * *	ATE-AIPW High	0.009	-0.310***	-0.376***	-0.494***	-0.593***	-0.349**
	(0.111)	(0.112)	(0.156)	(0.210)	(0.237)	(0.278)		(0.096)	(0.088)	(0.135)	(0.133)	(0.159)	(0.174)
ATE-AIPW Low	0.075	0.081	0.354*	0.553**	0.756*	1.901***	ATE-AIPW Low	-0.293***	-0.688***	-0.742***	-1.099***	-1.434***	-1.226***
	(0.102)	(0.134)	(0.181)	(0.281)	(0.393)	(0.631)		(0.101)	(0.088)	(0.138)	(0.133)	(0.160)	(0.182)
P-value High=Low	0.000	0.181	0.003	0.230	0.166	0.252	P-value High=Low	0.000	0.000	0.000	0.000	0.000	0.000
Avg.(trade) in countries above cutoff	0.368	0.728	1.160	1.597	2.034	2.546	Avg.(trade) in countries above cutoff	0.330	0.691	1.072	1.495	1.928	2.415
Avg.(trade) in countries below cutoff	0.422	0.937	1.471	2.103	2.536	3.161	Avg.(trade) in countries below cutoff	0.329	0.634	0.951	1.325	1.653	1.951
Panel c: Mining							Panel c: Mining						
ATE-AIPW High	-0.232*	-0.212	-0.397	-0.598*	-0.683*	-0.598	ATE-AIPW High	-0.683***	-0.599***	-0.713***	-1.283***	-0.552*	-0.276
	(0.127)	(0.195)	(0.247)	(0.321)	(0.401)	(0.483)		(0.087)	(0.149)	(0.194)	(0.269)	(0.329)	(0.423)
ATE-AIPW Low	0.646***	0.228	-0.232	-1.717***	-0.713*	0.338	ATE-AIPW Low	-0.175**	-0.558***	-0.871***	-1.519***	-2.261***	-2.406***
	(0.210)	(0.242)	(0.276)	(0.365)	(0.426)	(0.591)		(0.088)	(0.170)	(0.213)	(0.268)	(0.326)	(0.430)
P-value High=Low	0.000	0.018	0.305	0.000	0.915	0.036	P-value High=Low	0.000	0.750	0.268	0.230	0.000	0.000
Avg.(trade) in countries above cutoff	0.341	0.761	1.246	1.756	2.230	2.730	Avg.(trade) in countries above cutoff	0.642	1.346	2.126	2.960	3.709	4.479
Avg.(trade) in countries below cutoff	0.975	1.833	2.767	3.778	4.560	5.295	Avg.(trade) in countries below cutoff	0.444	0.902	1.356	1.839	2.191	2.551
Panel d: Manufacturing	0.550000	0.055444	1 100000	2.002444	0.155000	0.551000	Panel d: Manufacturing	1.02/040	1.840.000	1.515000	4.45044	2 20 40 40	2.20544
ATE-AIPW High	-0.5/3****	-0.85/****	-1.480***	-2.88.5****	-3.455****	-3.361***	ATE-AIPW High	-1.030***	-1./05****	-1./1/****	-1.4/8***	-2.384****	-2.205***
	(0.147)	(0.262)	(0.319)	(0.409)	(0.514)	(0.670)		(0.317)	(0.405)	(0.573)	(0.001)	(0.815)	(0.921)
ATE-AIPW LOW	-0.851****	-2.0/4***	-2.965****	-4.102***	-5.04/***	-5.9/5***	ATE-AIPW LOW	-2.3/1***	-4.014****	-3.951****	-4.481****	-4.544****	-3.900****
Barley IP 1 I am	(0.136)	(0.222)	(0.308)	(0.401)	(0.509)	(0.663)	Desta History	(0.342)	(0.427)	(0.618)	(0.761)	(0.972)	(1.305)
r-value rigit=Low	1.502	2.078	4 808	6 595	0.000	10.168	r-value rigii=Low	2.002	4.242	6.542	0.000	11.275	12 022
Avg.(trade) in countries above cutoff	0.649	1.205	4.606	0.365	2.224	10.108	Avg.(trade) in countries below outoff	2.095	2.016	6.542	7.920	10.219	13.933
Avg.(trade) in countries below cuton	0.048	1.293	1.805	2.045	3.324	4.005	Avg.(trade) in countries below cuton	1.949	5.810	3.027	7.811	10.218	12.340
Popel of Services							Panal of Somioos						
ATE AIRW High	0.171**	0.500***	0.222	0.522**	0 883***	0.722**	ATE AIDW High	0.212***	0.907***	0.717***	0.655***	0.751***	0.444
ATE-AIF W High	-0.171**	-0.390****	-0.225	-0.555**	-0.882***	-0.722++	ATE-AIF W High	-0.512+++	-0.802++++	-0.717++++	-0.033***	(0.251)	-0.444
ATE-AIPW Low	-0 520***	-1 610***	-2 060***	-2 507***	-2 807***	-3 87/1***	ATE-AIPW I ow	-1 005***	-1 500***	(0.17+) _2 212***	-2 387***	(0.231) _2 378***	-2 787***
ATE-AIF W LOW	-0.320+++	-1.010+++	-2.000****	-2.397++++	-2.807***	-5.6/4+++	ATE-AIF W LOW	-1.095****	-1.590+++	-2.212+++	-2.38/***	-2.5/8+++	-2.181+++
P value High=Low	0.000	0.000	0.000	0.000	0.000	0.000	P value High=L ow	0.000	0.000	0.000	0.000	0.000	0.000
Avg (trada) in countries above sutoff	0.000	1.645	2.597	2.614	4 592	5 722	Avg (trade) in countries above outoff	0.614	1 277	2.004	2 812	2 572	4.404
Avg (trade) in countries below outoff	0.019	1.04.0	2.367	3 272	4.565	1 857	Avg (trade) in countries below swtoff	0.582	1.277	1.688	2.012	2 980	3 576
Observations	700	700	2.443	709	700	700	Observations	709	709	700	2.347	2.200	700
# of Crises	20	20	20	20	20	20	# of Crises	20	20	20	20	20	20
" of Criscs Cutoff of shownal cariable median	17.021	17.021	17.021	17.021	17.021	17.021	" or Criscs Cutoff of showned periods and ion	17.021	17.021	17.021	17.021	17.021	17.021
Cuton of channel variable, median	17.051	17.051	17.051	17.051	17.051	17.051	Cuton of channel variable, median	17.051	17.051	17.051	17.051	17.051	17.051

Cutor of channet variables, median 17.051 1

# Table A.15b: Channels, Cumulative trade losses over five years after banking crises with higher and lower manufacturing exports

Panel	1: Exports	s (% of pre	-crisis GD	P)		(0)	Pane	III: Impor	ts (% of pr	e-crisis GD	P)	(	
	(1)	(2)	(3)	(4)	(5)	(6)		(1)	(2)	(3)	(4)	(5)	(6)
	h=0	h=1	h=2	h=3	h=4	h=5		h=0	h=1	h=2	h=3	h=4	h=5
<b>D</b> 1 <b>D</b> 1	Panel B:	Banking o	rises				<b>D</b>	Panel B	: Banking	crises			
Panel a: Total	0.00000	5 202000	5 105000	2.20.0000		5.015000	Panel a: Total	1.005000	0.000000	10.0/2000	0.151000	0.077040	10.101000
ATE-AIPW High	-0.693**	-5.293***	-5.19/***	-3.396***	-5.414***	-5.91/***	ATE-AIPW High	-1.995***	-9.200***	-10.062***	-9.1/1***	-9.966***	-10.131***
	(0.303)	(0.492)	(0.592)	(0.754)	(0.911)	(1.137)		(0.432)	(0.807)	(1.000)	(1.149)	(1.395)	(1.696)
ATE-AIP W LOW	-1.800***	-5.228****	-0.804***	-9.202***	-12.355****	-13.4/4****	ATE-AIPW LOW	-3.188****	-1.324****	-9.441***	-11.890***	-14./29****	-20.120***
D malma Iliah I am	(0.287)	(0.475)	(0.589)	(0.739)	(0.874)	(1.0/1)	Dushus High-Low	(0.450)	(0.727)	(0.936)	(1.107)	(1.558)	(1.601)
r-value rigi=Low	2.226	6 776	10.507	14 705	10,520	0.000	F-value High=Low	2.007	0.000	12 022	17 794	0.000	0.000
Avg.(trade) in countries below outoff	2.526	5 128	7 080	14.703	12.619	16.620	Avg.(trade) in countries below cutoff	3.997	5.022	9 967	17.764	15.047	10 802
Avg.(trade) in countries below cuton	2.320	3.128	7.980	10.932	15.018	10.020	Avg.(trade) in countries below cuton	5.028	3.932	8.807	12.517	13.947	19.895
Panel b: Agriculture							Panel b: Agriculture						
ATE-AIPW High	-0.112*	-0.674***	-1.013***	-1.100***	-1.181***	-1.503***	ATE-AIPW High	-0.390***	-0.706***	-0.800***	-0.916***	-0.955***	-1.195***
	(0.059)	(0.081)	(0.103)	(0.137)	(0.161)	(0.191)		(0.059)	(0.097)	(0.117)	(0.130)	(0.165)	(0.191)
ATE-AIPW Low	-0.063	-0.346***	-0.621***	-0.790***	-1.073***	-1.563***	ATE-AIPW Low	0.067	0.188*	-0.223*	-0.685***	-1.128***	-1.969***
	(0.064)	(0.094)	(0.136)	(0.162)	(0.183)	(0.213)		(0.069)	(0.105)	(0.124)	(0.134)	(0.159)	(0.186)
P-value High=Low	0.352	0.000	0.000	0.007	0.409	0.653	P-value High=Low	0.000	0.000	0.000	0.001	0.032	0.000
Avg.(trade) in countries above cutoff	0.346	0.705	1.100	1.511	1.928	2.389	Avg.(trade) in countries above cutoff	0.340	0.704	1.116	1.572	2.020	2.496
Avg.(trade) in countries below cutoff	0.431	0.887	1.432	2.024	2.485	3.133	Avg.(trade) in countries below cutoff	0.315	0.638	0.938	1.289	1.638	2.021
Panel c: Mining							Panel c: Mining						
ATE-AIPW High	-0.484***	-1.281***	-1.619***	-1.879***	-2.633***	-2.880***	ATE-AIPW High	-0.484***	-1.792***	-1.780***	-1.538***	-1.960***	-2.430***
	(0.140)	(0.226)	(0.249)	(0.271)	(0.325)	(0.410)		(0.104)	(0.166)	(0.196)	(0.237)	(0.272)	(0.325)
ATE-AIPW Low	0.136	-0.446*	-0.132	-0.710**	-1.676***	-0.521	ATE-AIPW Low	-0.750***	-1.257***	-1.821***	-2.532***	-3.094***	-3.844***
	(0.166)	(0.238)	(0.276)	(0.311)	(0.353)	(0.482)		(0.094)	(0.161)	(0.194)	(0.235)	(0.275)	(0.323)
P-value High=Low	0.000	0.000	0.000	0.000	0.000	0.000	P-value High=Low	0.000	0.000	0.509	0.000	0.000	0.000
Avg.(trade) in countries above cutoff	0.308	0.640	1.038	1.474	1.853	2.258	Avg.(trade) in countries above cutoff	0.674	1.499	2.391	3.357	4.204	5.030
Avg.(trade) in countries below cutoff	0.778	1.584	2.462	3.378	4.167	4.938	Avg.(trade) in countries below cutoff	0.478	0.870	1.302	1.744	2.119	2.562
							<b>D</b>						
Panel d: Manufacturing	0.044		0.500	1.00500	0.501	1.01.1	Panel d: Manufacturing	1.120000			1.0000000	1.0200000	1 222444
ATE-AIPW High	0.241	-1.514***	-0.538	1.225**	0.731	1.014	ATE-AIPW High	-1.130***	-5.535***	-5.6/6***	-4.882***	-4.828***	-4.222***
ATE ADW L	(0.100)	(0.293)	(0.381)	(0.484)	(0.559)	(0.095)	ATE ADVI	(0.248)	(0.495)	(0.001)	(0.680)	(0.838)	(1.040)
ATE-AIF W LOW	(0.126)	-2.457***	-5.557***	-4./03****	-5.000****	-0.751++++	ATE-AIF W LOW	-2.022++++	-5.045****	-3.755+++	-0.585****	-7.804++++	(0.028)
P volue High=L ow	0.000	0.000	0.000	0.000	0.000	0.000	P volue High-Low	0.000	0.122	0.961	0.000	0.000	0.000
Avg (trade) in countries above cutoff	1 779	3 641	5.676	7 700	0.000	11 987	Avg (trade) in countries above cutoff	2 295	4.655	7 205	0.000	12 101	14 835
Avg.(trade) in countries below cutoff	0.600	1 235	1.845	2 552	3 203	3 961	Avg.(trade) in countries below cutoff	1 738	3.435	5 104	7.116	0/17	11 889
Avg.(trade) in countries below cuton	0.007	1.255	1.045	2.332	5.205	5.701	Avg.(trade) in countries below cuton	1.750	5.455	5.104	7.110	2.417	11.007
Panel e: Services							Panel e: Services						
ATE-AIPW High	-0.338***	-1.824***	-2.027***	-1.641***	-2.331***	-2.549***	ATE-AIPW High	0.008	-1.166***	-1.806***	-1.835***	-2.223***	-2.284***
0	(0.096)	(0.166)	(0.242)	(0.322)	(0.394)	(0.515)	0	(0.097)	(0.139)	(0.196)	(0.236)	(0.271)	(0.308)
ATE-AIPW Low	-0.868***	-1.999***	-2.494***	-2.937***	-3.946***	-4.639***	ATE-AIPW Low	-0.483***	-1.210***	-1.663***	-2.288***	-2.701***	-3.114***
	(0.093)	(0.142)	(0.193)	(0.259)	(0.332)	(0.416)		(0.090)	(0.121)	(0.163)	(0.207)	(0.249)	(0.289)
P-value High=Low	0.000	0.121	0.003	0.000	0.000	0.000	P-value High=Low	0.000	0.631	0.250	0.001	0.002	0.000
Avg.(trade) in countries above cutoff	0.894	1.791	2.784	3.921	4.982	6.178	Avg.(trade) in countries above cutoff	0.688	1.439	2.221	3.084	3.902	4.762
Avg.(trade) in countries below cutoff	0.708	1.422	2.240	2.999	3.764	4.589	Avg.(trade) in countries below cutoff	0.496	0.988	1.522	2.168	2.773	3.422
Observations	711	711	711	711	711	711	Observations	711	711	711	711	711	711
# of Crises	19	19	19	19	19	19	# of Crises	19	19	19	19	19	19
Cutoff of channel variable, median	27.083	27.083	27.083	27.083	27.083	27.083	Cutoff of channel variable, median	27.083	27.083	27.083	27.083	27.083	27.083

Note: Robust standard errors clustered at the country-level in parentheses: p < 0.0, \*\*p < 0.0, \*p < 0.0, \*

Table A.15c: Channels, Cumulative trade	losses over five	years after	currency	crises with
higher and lower manufacturing exports				

Panel	I: Exports	s (% of pre	e-crisis GD	P)			Pane	l II: Impor	ts (% of pr	e-crisis GD	P)		
	(1)	(2)	(3)	(4)	(5)	(6)		(1)	(2)	(3)	(4)	(5)	(6)
	h=0	h=1	h=2	h=3	h=4	h=5		h=0	h=1	h=2	h=3	h=4	h=5
	Panel C:	Currency	crises					Panel C	: Currency	crises			
Panel a: Total							Panel a: Total						
ATE-AIPW High	-2.029***	-3.126***	-4.221***	-3.771***	-3.391***	-2.809***	ATE-AIPW High	-5.643***	-7.081***	-7.551***	-8.797***	-8.196***	-6.686***
	(0.297)	(0.411)	(0.547)	(0.734)	(0.859)	(1.060)		(0.422)	(0.608)	(0.819)	(1.041)	(1.266)	(1.563)
ATE-AIPW Low	-1.504***	-3.195***	-4.446***	-6.511***	-9.557***	-10.517***	ATE-AIPW Low	-4.482***	-6.917***	-9.503***	-10.529***	-11.507***	-10.802***
	(0.298)	(0.410)	(0.617)	(0.743)	(0.848)	(1.076)		(0.403)	(0.553)	(0.789)	(1.009)	(1.209)	(1.513)
P-value High=Low	0.000	0.788	0.577	0.000	0.000	0.000	P-value High=Low	0.000	0.646	0.000	0.002	0.000	0.000
Avg.(trade) in countries above cutoff	3.147	6.441	10.080	13.956	17.656	21.730	Avg.(trade) in countries above cutoff	3.838	7.895	12.320	16.948	21.328	26.069
Avg.(trade) in countries below cutoff	2.714	5.462	8.487	11.692	14.429	17.597	Avg.(trade) in countries below cutoff	3.165	6.288	9.352	12.987	16.753	20.699
Panel b: Agriculture							Panel b: Agriculture						
ATE-AIPW High	-0.219***	-0.570***	-0.739***	-0.722***	-0.538**	-0.356	ATE-AIPW High	-0.498***	-0.654***	-0.763***	-0.969***	-0.872***	-0.883***
	(0.056)	(0.098)	(0.134)	(0.172)	(0.212)	(0.289)		(0.081)	(0.074)	(0.095)	(0.110)	(0.137)	(0.154)
ATE-AIPW Low	0.377***	0.068	0.677***	0.281	0.099	-0.065	ATE-AIPW Low	-0.444***	-0.600***	-0.905***	-1.055***	-0.937***	-0.728***
	(0.071)	(0.106)	(0.210)	(0.214)	(0.199)	(0.235)		(0.082)	(0.070)	(0.095)	(0.109)	(0.137)	(0.169)
P-value High=Low	0.000	0.000	0.000	0.000	0.001	0.257	P-value High=Low	0.094	0.198	0.001	0.064	0.331	0.193
Avg.(trade) in countries above cutoff	0.339	0.708	1.114	1.531	1.964	2.444	Avg.(trade) in countries above cutoff	0.326	0.672	1.065	1.509	1.951	2.412
Avg.(trade) in countries below cutoff	0.451	0.904	1.450	2.055	2.495	3.135	Avg.(trade) in countries below cutoff	0.336	0.681	0.998	1.354	1.701	2.097
Panal a: Mining							Panel of Mining						
ATE AIDW High	0.100	0.975***	1 102***	1 705***	1 090***	2 002***	ATE AIPW High	1 1 2 4 ***	1 261***	2 256***	2 586***	2 700***	2 042***
ATE-AII W High	-0.199	(0.150)	(0.201)	(0.252)	(0.202)	(0.352)	ATE-An wingi	(0.082)	(0.127)	(0.192)	(0.227)	(0.272)	(0.274)
ATE AIDW Low	0.190)	1 026***	1 260***	1 208***	2 664***	2 470***	ATE AIDW Low	0.642***	1 150***	1 746***	2 172***	2 580***	2 622***
ATE-AII W LOW	(0.210)	(0.182)	(0.272)	(0.210)	(0.240)	(0.411)	ATE-AII W LOW	(0.098)	(0.125)	(0.172)	(0.200)	(0.247)	(0.202)
P-value High-I ow	0.000	0.060	0.339	0.031	0.000	0.079	P-value High-Low	0.000	0.016	0.000	0.011	0.464	0.050
Avg (trade) in countries above cutoff	0.000	0.630	1.024	1.436	1 796	2 167	Avg (trade) in countries above cutoff	0.674	1.457	2 329	3 266	4.059	4 933
Avg.(trade) in countries below cutoff	0.830	1 600	2 656	3 669	4 537	5.407	Avg.(trade) in countries below cutoff	0.454	0.862	1 269	1.694	2.008	2 418
rigi(trute) in countries below cuton	0.057	1.077	2.050	5.007	1.551	5.107	rigi(trade) in countries below cuton	0.151	0.002	1.207	1.071	2.070	2.110
Panel d: Manufacturing							Panel d: Manufacturing						
ATE-AIPW High	-0.771***	-0.882***	-1.462***	-1.092***	-0.555	0.418	ATE-AIPW High	-3.211***	-4.111***	-3.575***	-4.087***	-3.588***	-2.937***
·····	(0.137)	(0.237)	(0.314)	(0.410)	(0.493)	(0.604)	·····	(0.260)	(0.371)	(0.485)	(0.616)	(0.761)	(0.926)
ATE-AIPW Low	-0.847***	-1.658***	-2.747***	-3.841***	-4.924***	-5.705***	ATE-AIPW Low	-2.684***	-3.961***	-5.412***	-5.702***	-6.343***	-5.545***
	(0.123)	(0.208)	(0.285)	(0.371)	(0.460)	(0.563)		(0.247)	(0.333)	(0.457)	(0.595)	(0.713)	(0.882)
P-value High=Low	0.231	0.000	0.000	0.000	0.000	0.000	P-value High=Low	0.000	0.511	0.000	0.000	0.000	0.000
Avg.(trade) in countries above cutoff	1.667	3.417	5.312	7.286	9.163	11.236	Avg.(trade) in countries above cutoff	2.183	4.400	6.813	9.253	11.612	14.180
Avg.(trade) in countries below cutoff	0.645	1.300	1.963	2.734	3.383	4.187	Avg.(trade) in countries below cutoff	1.850	3.693	5.475	7.619	10.005	12.576
Panel e: Services							Panel e: Services						
ATE-AIPW High	-0.840***	-0.848***	-0.829***	-0.252	-0.309	-0.779**	ATE-AIPW High	-0.810***	-0.955***	-0.957***	-1.154***	-1.036***	-0.824***
	(0.077)	(0.129)	(0.184)	(0.264)	(0.304)	(0.363)		(0.075)	(0.120)	(0.172)	(0.208)	(0.243)	(0.276)
ATE-AIPW Low	-0.541***	-0.578***	-1.007***	-1.643***	-2.067***	-2.268***	ATE-AIPW Low	-0.711***	-1.205***	-1.441***	-1.600***	-1.647***	-1.897***
	(0.078)	(0.134)	(0.183)	(0.243)	(0.295)	(0.373)		(0.077)	(0.120)	(0.181)	(0.214)	(0.246)	(0.286)
P-value High=Low	0.000	0.004	0.165	0.000	0.000	0.000	P-value High=Low	0.053	0.001	0.000	0.000	0.000	0.000
Avg.(trade) in countries above cutoff	0.835	1.677	2.631	3.703	4.733	5.882	Avg.(trade) in countries above cutoff	0.655	1.365	2.113	2.920	3.707	4.544
Avg.(trade) in countries below cutoff	0.779	1.559	2.419	3.235	4.014	4.869	Avg.(trade) in countries below cutoff	0.525	1.051	1.610	2.319	2.948	3.608
Observations	712	712	712	712	712	712	Observations	712	712	712	712	712	712
# of Crises	19	19	19	19	19	19	# of Crises	19	19	19	19	19	19
Cutoff of channel variable, median	24.364	24.364	24.364	24.364	24.364	24.364	Cutoff of channel variable, median	24.364	24.364	24.364	24.364	24.364	24.364

Cutor of channet variable, including variable, and 24.304

Panel	I: Exports	(% of pre	-crisis GD	P)			Pane	l II: Impor	ts (% of pr	e-crisis GD	P)		
	(1)	(2)	(3)	(4)	(5)	(6)		(1)	(2)	(3)	(4)	(5)	(6)
	h=0	h=1	h=2	h=3	h=4	h=5		h=0	h=1	h=2	h=3	h=4	h=5
	Panel A	A: Debt cri	ses					Panel	A: Debt cr	rises			
Panel a: Total							Panel a: Total						
ATE-AIPW High	-1.600***	-2.127***	-2.328***	-4.299***	-5.555***	-5.678***	ATE-AIPW High	-2.183***	-4.744***	-4.650***	-4.192***	-5.084***	-4.638***
	(0.277)	(0.470)	(0.639)	(0.843)	(1.031)	(1.271)		(0.459)	(0.625)	(0.924)	(1.146)	(1.356)	(1.605)
ATE-AIPW Low	-1.104***	-3.529***	-5.243***	-7.874***	-8.565***	-8.603***	ATE-AIPW Low	-4.309***	-6.566***	-8.070***	-11.081***	-12.402***	-13.761***
	(0.322)	(0.443)	(0.636)	(0.896)	(1.042)	(1.232)		(0.516)	(0.680)	(0.992)	(1.186)	(1.407)	(1.605)
P-value High=Low	0.051	0.000	0.000	0.000	0.000	0.000	P-value High=Low	0.000	0.000	0.000	0.000	0.000	0.000
Avg.(trade) in countries above cutoff	3.217	6.663	10.494	14.540	18.218	22.318	Avg.(trade) in countries above cutoff	3.849	7.770	12.059	16.650	21.042	25.598
Avg.(trade) in countries below cutoff	2.355	4.456	6.711	9.156	11.463	14.078	Avg.(trade) in countries below cutoff	2.883	5.931	8.759	12.002	15.415	19.295
Banal by Anniaultuna							Donal ha Assimultures						
ATE A DW High	0 621888	0.256***	0.225**	0.207**	0.172	0.540*	ATE A DW High	0.002	0.455***	0.205**	0.266	0.461888	0.2428
ATE-AIF W High	-0.051+++	-0.550****	-0.525***	-0.387**	-0.175	(0.202)	ATE-AIF W High	(0.116)	(0.107)	-0.295**	-0.200	-0.401++++	-0.542+
ATE AIRW Low	(0.111)	0.127	0.110	(0.195)	(0.255)	(0.292)	ATE AIDW LOW	(0.110)	(0.107)	(0.159)	(0.177)	(0.101)	(0.166)
ATE-AII W LOW	(0.082)	(0.102)	(0.150)	(0.274)	(0.200)	(0.284)	ATE-AII W LOW	(0.121)	(0.100)	(0.142)	(0.191)	(0.162)	(0.100)
P volue High=Low	0.000	0.007	0.000	0.000	0.411	0.002	P value High=Low	0.000	0.000	0.000	0.000	0.000	0.000
Avg (trade) in countries above cutoff	0.000	0.007	1 213	1.653	2 107	2.602	Avg (trade) in countries above cutoff	0.000	0.000	1.087	1.500	1 933	2 380
Avg.(trade) in countries below cutoff	0.30/	0.705	1 203	1 011	2.107	2.002	Avg.(trade) in countries below cutoff	0.308	0.634	0.000	1.200	1.642	2.000
Avg.(trade) in countries below cuton	0.574	0.775	1.275	1.711	2.237	2.175	Avg.(trade) in coantries below cuton	0.500	0.054	0.707	1.270	1.042	2.027
Panel c: Mining							Panel c: Mining						
ATE-AIPW High	-0.287***	-0.273	-0.323	-0.412	-0.440	-0.403	ATE-AIPW High	-0.579***	-0.627***	-1.045***	-1.228***	-0.432	-0.001
	(0.109)	(0.191)	(0.269)	(0.344)	(0.431)	(0.503)		(0.090)	(0.157)	(0.207)	(0.277)	(0.326)	(0.423)
ATE-AIPW Low	0.675***	0.303	-0.273	-1.781***	-0.860*	0.154	ATE-AIPW Low	-0.377***	-0.684***	-0.776***	-1.846***	-2.552***	-3.256***
	(0.200)	(0.238)	(0.297)	(0.388)	(0.455)	(0.611)		(0.093)	(0.174)	(0.214)	(0.263)	(0.315)	(0.370)
P-value High=Low	0.000	0.002	0.754	0.000	0.111	0.210	P-value High=Low	0.000	0.654	0.067	0.001	0.000	0.000
Avg.(trade) in countries above cutoff	0.409	0.908	1.515	2.157	2.718	3.256	Avg.(trade) in countries above cutoff	0.654	1.341	2.095	2.924	3.671	4.403
Avg.(trade) in countries below cutoff	0.793	1.434	2.029	2.677	3.204	3.837	Avg.(trade) in countries below cutoff	0.416	0.915	1.448	1.942	2.316	2.745
Panel d: Manufacturing							Panel d: Manufacturing						
ATE-AIPW High	-0.652***	-0.822***	-1.458***	-2.985***	-3.864***	-4.319***	ATE-AIPW High	-1.240***	-2.653***	-2.478***	-2.065***	-3.324***	-3.466***
	(0.141)	(0.261)	(0.323)	(0.413)	(0.512)	(0.624)		(0.287)	(0.386)	(0.558)	(0.662)	(0.778)	(0.894)
ATE-AIPW Low	-0.928***	-2.141***	-3.031***	-4.186***	-4.956***	-5.551***	ATE-AIPW Low	-2.499***	-3.855***	-4.293***	-5.642***	-6.051***	-6.684***
	(0.129)	(0.225)	(0.316)	(0.407)	(0.502)	(0.610)		(0.321)	(0.415)	(0.597)	(0.697)	(0.829)	(0.932)
P-value High=Low	0.000	0.000	0.000	0.000	0.000	0.000	P-value High=Low	0.000	0.000	0.000	0.000	0.000	0.000
Avg.(trade) in countries above cutoff	1.567	3.224	5.004	6.901	8.624	10.625	Avg.(trade) in countries above cutoff	2.230	4.450	6.843	9.398	11.911	14.567
Avg.(trade) in countries below cutoff	0.496	0.941	1.399	1.855	2.397	2.863	Avg.(trade) in countries below cutoff	1.601	3.242	4.783	6.422	8.338	10.520
Panel e: Services	0.001	0 (88444	0.001	0.51544	1.050444		Panel e: Services	0.0440000	1.0000000	0.022044	0.000000	0.045040	0.0000000
ATE-AIPW High	-0.031	-0.6//***	-0.221	-0.515**	-1.0/9***	-1.505***	ATE-AIPW High	-0.366***	-1.008***	-0.832***	-0.633***	-0.86/***	-0.829***
ATE ADM/L	(0.077)	(0.128)	(0.189)	(0.237)	(0.284)	(0.340)	ATT ADX I am	(0.086)	(0.119)	(0.104)	(0.198)	(0.232)	(0.276)
ATE-AIP W LOW	-0.584****	-1.504****	-2.059***	-2.014****	-2.780****	-3.301****	ATE-AIPW LOW	-1.0/6***	-1.300***	-2.052***	-2.291****	-2.104****	-2.338****
P value High-Low	0.000	0.000	0.169)	0.000	0.000	0.000	P volue High-Low	0.000	0.001	0.000	0.000	0.000	0.000
1 -value fligh=Low	0.000	1.764	2 762	2 820	4 760	5.925	1 -value filgli=Low Avg (trada) in countries above outoff	0.000	1 289	2.024	2.810	2 5 2 7	4 249
Avg.(trade) in countries below outoff	0.809	1.704	2.702	2 713	3.624	1 585	Avg.(trade) in countries below outoff	0.558	1.200	2.034	2.019	3 1 1 9	4.003
Observations	707	707	707	2.715	707	707	Observations	707	707	707	2.340	707	4.005
# of Crises	10	10	10	10	10	10	# of Crises	10	10	10	10	10	10
" of Criscs Cutoff of shannal variable modian	-3 200	-3 200	-3 200	-3 200	-3 200	-3 200	" of Criscs Cutoff of shannel variable median	-3 200	-3 200	-3 200	-3 200	-3 200	-3 200
Neter Debut standard among abutand	-5.200	-5.200	-5.200	* 0.1	-5.200	-5.200	The second of chainer variable, illeulait	100.0	-5.200	-5.200	-5.200	-5.200	-5.200

Notes: Robust standard errors clustered at the country-level in parentheses.\* p < 0.1, \*\* p < 0.05, \*\*\* p < 0.01. IPW estimates. The dependent variables are 100 times the cumulative change of agricultural, mining, manufacturing, services, and total exports and imports relative to the year prior to the onset of the crisis for years 1-5 after the onset of the crisis, scaled pre-crisis GDP. Accumulated costs over five years. Observations in the treated and control groups are weighted by the propensity scores predicted in the treatment model. Maximum weights truncated at 10.

Table A.16b: Channels, Cumulative trade losses over five years after banking crises with higher and lower export diversification

Panel	I: Export	s (% of pre	-crisis GD	P)			Pane	l II: Impor	ts (% of pr	e-crisis GD	(P)		
	(1)	(2)	(3)	(4)	(5)	(6)		(1)	(2)	(3)	(4)	(5)	(6)
	h=0	h=1	h=2	h=3	h=4	h=5		h=0	h=1	h=2	h=3	h=4	h=5
	Panel B	: Banking o	rises					Panel B	: Banking	crises			
Panel a: Total							Panel a: Total						
ATE-AIPW High	-0.991***	* -6.176***	-5.784***	-4.618***	-6.971***	-7.303***	ATE-AIPW High	-2.628***	-10.660***	-11.084***	-10.113***	-11.891***	-12.633***
	(0.294)	(0.477)	(0.575)	(0.730)	(0.893)	(1.113)		(0.421)	(0.757)	(0.949)	(1.136)	(1.448)	(1.766)
ATE-AIPW Low	-1.383***	4.750***	-6.592***	-8.249***	-11.364***	-12.734***	ATE-AIPW Low	-2.252***	-6.143***	-9.148***	-11.568***	-13.811***	-18.793***
	(0.293)	(0.479)	(0.580)	(0.730)	(0.901)	(1.084)		(0.447)	(0.721)	(0.925)	(1.113)	(1.440)	(1.700)
P-value High=Low	0.108	0.000	0.001	0.000	0.000	0.000	P-value High=Low	0.310	0.000	0.000	0.002	0.007	0.000
Avg.(trade) in countries above cutoff	3.742	7.485	11.588	15.922	19.878	24.287	Avg.(trade) in countries above cutoff	3.906	7.937	12.360	16.945	21.150	25.699
Avg.(trade) in countries below cutoff	2.528	5.211	8.193	11.371	14.286	17.555	Avg.(trade) in countries below cutoff	3.395	6.870	10.444	14.451	18.529	22.795
Panel b: Agriculture							Panel b: Agriculture						
ATE-AIPW High	-0.107*	-0.521***	-0.668***	-0.638***	-0.617***	-0.780***	ATE-AIPW High	-0.310***	-0.835***	-0.947***	-1.102***	-1.282***	-1.517***
	(0.056)	(0.084)	(0.113)	(0.145)	(0.177)	(0.201)		(0.054)	(0.090)	(0.111)	(0.136)	(0.173)	(0.204)
ATE-AIPW Low	-0.009	-0.559***	-0.984***	-1.195***	-1.568***	-2.182***	ATE-AIPW Low	-0.013	0.293***	-0.156	-0.600***	-0.883***	-1.857***
	(0.063)	(0.093)	(0.131)	(0.150)	(0.165)	(0.179)		(0.073)	(0.108)	(0.128)	(0.144)	(0.180)	(0.205)
P-value High=Low	0.054	0.571	0.002	0.000	0.000	0.000	P-value High=Low	0.000	0.000	0.000	0.000	0.000	0.000
Avg.(trade) in countries above cutoff	0.420	0.849	1.308	1.808	2.304	2.872	Avg.(trade) in countries above cutoff	0.278	0.575	0.919	1.274	1.634	2.002
Avg.(trade) in countries below cutoff	0.352	0.729	1.191	1.673	2.046	2.524	Avg.(trade) in countries below cutoff	0.362	0.736	1.110	1.554	1.985	2.452
Den de Minim							B134''						
ATE A DW/ High	0.421888	1 220***	1 447888	1 65 1 8 8 8	<b>0</b> 419888	2 602888	ATE ADW High	0.520888	1 796888	1 5 4 2 8 * *	1 220***	1 057888	2 220888
ATE-AIF W High	-0.421***	(0.222)	-1.44/***	-1.031++++	-2.418+++	-2.092+++	ATE-AIF w High	-0.520+++	-1./80****	-1.542+++	-1.520***	-1.63/****	-2.559+++
ATE ADVI on	(0.157)	(0.222)	(0.242)	(0.208)	(0.520)	(0.401)	ATE ADM L	(0.101)	(0.159)	(0.191)	(0.252)	(0.267)	(0.544)
ATE-AIF W LOW	(0.165)	-0.002**	-0.422	-0.908+++	-1.904****	-0.757	ATE-AIF W LOW	-0.005++++	(0.157)	-2.08/****	-2.032***	(0.285)	-5.767***
P value High=Low	0.000	0.000	0.000	0.000	0.001	0.000	P value High-Low	0.008	0.000	0.000	0.000	0.000	0.000
A sec (trade) in countries above outoff	0.000	0.000	1.206	1.622	1.050	0.000	A up (treade) in countries above outoff	0.008	1.542	0.000	2 2 2 7	4.125	4.002
Avg.(trade) in countries below outoff	0.562	1.218	1.200	2.606	2 292	2.280	Avg.(trade) in countries below cutoff	0.741	1.042	2.417	2.527	2 800	4.902
Avg.(trade) in countries below cuton	0.595	1.210	1.924	2.090	5.565	4.088	Avg.(trade) in countries below cuton	0.498	1.050	1.021	2.230	2.009	5.565
Panel d: Manufacturing							Panel d: Manufacturing						
ATE-AIPW High	-0.048	-2.576***	-1.749***	-0.557	-1.365**	-1.184*	ATE-AIPW High	-1.439***	-6.470***	-6.507***	-5.627***	-6.151***	-6.037***
	(0.159)	(0.256)	(0.323)	(0.427)	(0.533)	(0.666)	8	(0.251)	(0.465)	(0.573)	(0.670)	(0.857)	(1.067)
ATE-AIPW Low	-0.641***	-1.501***	-2.410***	-3.154***	-4.026***	-5.059***	ATE-AIPW Low	-1.491***	-4.254***	-5.328***	-6.119***	-7.238***	-10.144***
	(0.141)	(0.263)	(0.377)	(0.477)	(0.539)	(0.644)		(0.254)	(0.420)	(0.535)	(0.639)	(0.826)	(0.979)
P-value High=Low	0.000	0.000	0.010	0.000	0.000	0.000	P-value High=Low	0.804	0.000	0.000	0.128	0.033	0.000
Avg.(trade) in countries above cutoff	2.070	4.176	6.469	8.908	11.156	13.706	Avg.(trade) in countries above cutoff	2.272	4.538	7.019	9.582	11.941	14.602
Avg.(trade) in countries below cutoff	0.800	1.661	2.559	3.505	4.400	5.405	Avg.(trade) in countries below cutoff	1.931	3.872	5.842	7.993	10.338	12.785
Panel e: Services							Panel e: Services						
ATE-AIPW High	-0.416***	-1.850***	-1.921***	-1.772***	-2.571***	-2.647***	ATE-AIPW High	-0.359***	-1.569***	$-2.088^{***}$	-2.064***	-2.602***	-2.740***
	(0.089)	(0.138)	(0.198)	(0.282)	(0.358)	(0.491)		(0.073)	(0.129)	(0.166)	(0.212)	(0.257)	(0.291)
ATE-AIPW Low	-0.774***	-2.088***	-2.776***	-2.932***	-3.867***	-4.755***	ATE-AIPW Low	-0.084	-0.864***	-1.577***	-2.218***	-2.569***	-3.005***
	(0.099)	(0.165)	(0.230)	(0.298)	(0.378)	(0.448)		(0.110)	(0.123)	(0.182)	(0.222)	(0.273)	(0.314)
P-value High=Low	0.000	0.031	0.000	0.000	0.000	0.000	P-value High=Low	0.008	0.000	0.000	0.253	0.825	0.103
Avg.(trade) in countries above cutoff	0.870	1.687	2.605	3.574	4.459	5.422	Avg.(trade) in countries above cutoff	0.614	1.282	2.005	2.762	3.450	4.193
Avg.(trade) in countries below cutoff	0.784	1.602	2.519	3.496	4.456	5.538	Avg.(trade) in countries below cutoff	0.603	1.227	1.871	2.648	3.396	4.174
Observations	710	710	710	710	710	710	Observations	710	710	710	710	710	710
# of Crises	18	18	18	18	18	18	# of Crises	18	18	18	18	18	18
Cutoff of channel variable, median	-2.445	-2.445	-2.445	-2.445	-2.445	-2.445	Cutoff of channel variable, median	-2.445	-2.445	-2.445	-2.445	-2.445	-2.445
Matana Daharat atan dand amang alustana d	at the amount			*** < 0.1	** - < 0.05	*** ~ < 0.01	IDW actionates. The demandant consideles on	- 100 time-	4 h	diana alamana	and a main subtract	al minima	

Notes: Robust standard errors clustered at the country-level in parentheses.\* p < 0.05, \*\*\* p < 0.01. IPW estimates. The dependent variables are 100 times the cumulative change of agricultural, mining, manufacturing, services, and total exports and imports relative to the year prior to the onset of the crisis for years 1-5 after the onset of the crisis, scaled pre-crisis GDP. Accumulated costs over five years. Observations in the treated and control groups are weighted by the propensity scores predicted in the treatment model. Maximum weights truncated at 10.

# Table A.16c: Channels, Cumulative trade losses over five years after currency crises with higher and lower export diversification

Panel	I. Exports	(% of pre	-crisis GD	P)			Pane	I II. Impor	ts (% of pr	e-crisis GD	<b>P</b> )		
1 aller	(1)	(2)	(3)	(4)	(5)	(6)	1 416	(1)	(2)	(3)	- / (4)	(5)	(6)
	h-0	(2) h-1	(3) h-2	h-3	h-4	h-5		h-0	(4) h=1	(3) h-2	(4) h-3	h-4	h-5
	Panel C	Currency	crises	n=5	<u>11–7</u>	n-5		Panel C	: Currepcy	crises	n=5	n-4	n-5
Panel a: Total	Tunci ci	ourrency	ci ioco				Panel a: Total	T unter O	currency	crises			
ATE-AIPW High	-1.563***	-2.033***	-3.514***	-3.720***	-3.663***	-2.633**	ATE-AIPW High	-4.368***	-5.522***	-6.105***	-8.160***	-8.572***	-5.926***
	(0.282)	(0.404)	(0.540)	(0.727)	(0.860)	(1.098)		(0.407)	(0.564)	(0.777)	(0.995)	(1.220)	(1.575)
ATE-AIPW Low	-2.035***	-4.481***	-5.249***	-6.774***	-9.782***	-11.354***	ATE-AIPW Low	-5.811***	-8.841***	-11.575***	-11.655***	-11.432***	-11.809***
	(0.285)	(0.405)	(0.604)	(0.721)	(0.833)	(0.974)		(0.409)	(0.576)	(0.806)	(1.002)	(1.210)	(1.376)
P-value High=Low	0.001	0.000	0.000	0.000	0.000	0.000	P-value High=Low	0.000	0.000	0.000	0.000	0.000	0.000
Avg.(trade) in countries above cutoff	3.590	7.303	11.296	15.768	19.602	23.775	Avg.(trade) in countries above cutoff	3.939	8.062	12.409	17.110	21.235	25.790
Avg.(trade) in countries below cutoff	2.526	5.128	8.085	11.048	13.954	17.291	Avg.(trade) in countries below cutoff	3.320	6.673	10.222	14.087	18.213	22.447
Panel b: Agriculture							Panel b: Agriculture						
ATE-AIPW High	-0.046	-0.293***	-0.312***	-0.265*	-0.117	0.093	ATE-AIPW High	-0.381***	-0.459***	-0.594***	-0.873***	-0.895***	-0.767***
	(0.054)	(0.082)	(0.112)	(0.157)	(0.186)	(0.249)		(0.079)	(0.070)	(0.093)	(0.107)	(0.135)	(0.169)
ATE-AIPW Low	0.278***	-0.062	0.421**	-0.026	-0.218	-0.298	ATE-AIPW Low	-0.544***	-0.854***	-1.154***	-1.208***	-0.917***	-0.831***
	(0.072)	(0.107)	(0.213)	(0.213)	(0.190)	(0.221)		(0.080)	(0.074)	(0.098)	(0.111)	(0.138)	(0.151)
P-value High=Low	0.000	0.014	0.000	0.226	0.532	0.082	P-value High=Low	0.000	0.000	0.000	0.000	0.726	0.578
Avg.(trade) in countries above cutoff	0.435	0.878	1.344	1.820	2.271	2.796	Avg.(trade) in countries above cutoff	0.306	0.647	1.007	1.406	1.772	2.157
Avg.(trade) in countries below cutoff	0.334	0.696	1.153	1.651	2.046	2.548	Avg.(trade) in countries below cutoff	0.349	0.697	1.063	1.482	1.916	2.379
Panel c: Mining							Panel c: Mining						
ATE-AIPW High	-0.262	-0.585***	-0.822***	-1.192***	-1.425***	-1.287***	ATE-AIPW High	-0.801***	-1.011***	-1.470***	-1.810***	-1.819***	-1.049***
	(0.169)	(0.150)	(0.205)	(0.261)	(0.313)	(0.383)		(0.076)	(0.130)	(0.167)	(0.221)	(0.260)	(0.352)
ATE-AIPW Low	-0.539***	-1.380***	-1.874***	-1.913***	-3.437***	-3.577***	ATE-AIPW Low	-0.952***	-1.519***	-2.599***	-3.016***	-3.626***	-3.725***
	(0.185)	(0.178)	(0.262)	(0.296)	(0.318)	(0.373)		(0.093)	(0.138)	(0.180)	(0.211)	(0.250)	(0.279)
P-value High=Low	0.001	0.000	0.000	0.000	0.000	0.000	P-value High=Low	0.018	0.000	0.000	0.000	0.000	0.000
Avg.(trade) in countries above cutoff	0.355	0.729	1.126	1.540	1.857	2.149	Avg.(trade) in countries above cutoff	0.750	1.581	2.385	3.265	4.025	4.842
Avg.(trade) in countries below cutoff	0.633	1.294	2.053	2.869	3.597	4.365	Avg.(trade) in countries below cutoff	0.468	0.958	1.568	2.199	2.758	3.282
<b>B</b>													
Panel d: Manufacturing	0.545000	0.000	0.05 (0.04	1.01144	1.00/00	0.122	Panel d: Manufacturing	0.1500000	0.11.0000	0.044.000	1 1 5 4 4 4 4 4	1.2.500000	2 520444
ATE-AIPW High	-0.565***	-0.338	-0.9/6***	-1.011**	-1.006**	-0.123	ATE-AIPW High	-2.450***	-3.116***	-3.041***	-4.156***	-4.360***	-2.729***
	(0.134)	(0.227)	(0.305)	(0.412)	(0.500)	(0.602)		(0.251)	(0.340)	(0.458)	(0.590)	(0.726)	(0.913)
ATE-AIPW LOW	-1.110****	-2.462***	-3.531****	-4.2/4***	-4.888****	-5.749***	ATE-AIPW LOW	-3.538****	-5.188****	-0.35/****	-5.939****	-5./35****	-5.962***
Deschart High Land	(0.126)	(0.214)	(0.290)	(0.372)	(0.464)	(0.560)	Deschore Heat and an	(0.253)	(0.357)	(0.480)	(0.596)	(0.720)	(0.826)
r-value right=Low	1.022	2.072	6.128	0.000	10.862	12 242	r-value High=Low	0.000	4.507	6.044	0.000	11,880	14 544
Avg.(trade) in countries above cutoff	0.791	3.972	0.128	2.165	2 070	15.242	Avg.(trade) in countries below outoff	2.230	4.307	6.944	9.570	10.222	12.544
Avg.(trade) in countries below cuton	0.781	1.372	2.4.38	5.105	3.970	4.934	Avg.(trade) in countries below cuton	1.910	5.651	J.784	7.044	10.223	12.055
Panel e. Services							Panal a Services						
ATE-AIPW High	-0 600***	-0.818***	-1 /0/***	-1 253***	-1 116***	-1 316***	ATE-AIPW High	-0 735***	-0.036***	-0 000***	-1 321***	-1 /108***	-1 387***
ATE-AII (V Ingi	(0.081)	(0.143)	(0.184)	(0.253)	(0.305)	(0.386)	ATE-AIL () High	(0.071)	(0.118)	(0.168)	(0.201)	(0.238)	(0.282)
ATE-AIPW Low	-0 664***	-0 576***	-0.265	-0 561**	-1 240***	-1 731***	ATE-AIPW Low	-0 777***	-1 281***	-1 465***	-1 492***	-1 155***	-1 291***
	(0.076)	(0.119)	(0.177)	(0.249)	(0.292)	(0.339)		(0.075)	(0.116)	(0.168)	(0.207)	(0.241)	(0.270)
P-value High=Low	0.611	0.010	0.000	0.000	0.597	0.150	P-value High=Low	0.400	0.000	0.000	0.178	0.039	0.668
Avg.(trade) in countries above cutoff	0.867	1.724	2.699	3.740	4.611	5.588	Avg.(trade) in countries above cutoff	0.627	1.327	2.073	2.863	3.548	4.247
Avg (trade) in countries below cutoff	0.778	1.566	2.077	3 364	4 342	5 424	Avg (trade) in countries below entoff	0.593	1 187	1.807	2.561	3 317	4 132
Observations	710	710	710	710	710	710	Observations	710	710	710	710	710	710
# of Crises	19	19	19	19	19	19	# of Crises	19	19	19	19	19	19
Cutoff of channel variable modion	-2 626	-2 626	-2 626	-2 626	-2 626	-2 626	Cutoff of channel variable modion	-2 626	-2 626	-2 626	-2 626	-2 626	-2 626
Cuton of chamiler variable, median	*2.020	~2.020	-2.020	*2.020	-2.020	*2.020	Cuton of channel variable, median	-2.020	*2.020	-2.020	-2.020	*2.020	*2.020

Notes: Robust standard errors clustered at the country-level in parentheses.\* p < 0.1, \*\* p < 0.05, \*\*\* p < 0.01. IPW estimates. The dependent variables are 100 times the cumulative change of agricultural, imining, manufacturing, services, and total exports and imports relative to the year prior to the onset of the crisis for years 1-5 after the onset of the crisis, scaled pre-crisis GDP. Accumulated costs over five years. Observations in the treated and control groups are weighted by the propensity scores predicted in the treatment model. Maximum weights truncated at 10.
Table A.17a: Channels, Cumulative trade losses over five years after debt crises with higher and lower partners' diversification

Panel	I: Exports	s (% of pre	-crisis GD	P)			Pane	II: Impor	ts (% of pr	e-crisis GD	P)		
	(1)	(2)	(3)	(4)	(5)	(6)		(1)	(2)	(3)	(4)	(5)	(6)
	h=0	h=1	h=2	h=3	h=4	h=5		h=0	h=1	h=2	h=3	h=4	h=5
	Panel	A: Debt cri	ises					Panel	A: Debt cr	rises			
Panel a: Total							Panel a: Total						
ATE-AIPW High	-2.122***	-2.932***	-3.205***	-5.505***	-5.963***	-5.571***	ATE-AIPW High	-3.793***	-6.716***	-7.603***	-8.189***	-9.440***	-10.110***
	(0.273)	(0.438)	(0.601)	(0.786)	(0.995)	(1.371)		(0.390)	(0.594)	(0.894)	(1.086)	(1.382)	(1.759)
ATE-AIPW Low	-0.819***	-3.430***	-5.488***	-8.469***	-10.352***	-11.499***	ATE-AIPW Low	-3.227***	-5.393***	-6.527***	-9.592***	-11.627***	-12.841***
	(0.316)	(0.414)	(0.580)	(0.824)	(0.995)	(1.342)		(0.452)	(0.647)	(0.941)	(1.095)	(1.397)	(1.694)
P-value High=Low	0.000	0.067	0.000	0.000	0.000	0.000	P-value High=Low	0.074	0.001	0.034	0.017	0.001	0.002
Avg.(trade) in countries above cutoff	3.408	6.906	10.623	14.548	18.010	21.646	Avg.(trade) in countries above cutoff	3.969	7.939	12.020	16.432	20.518	24.673
Avg.(trade) in countries below cutoff	2.498	5.122	8.162	11.422	14.550	18.278	Avg.(trade) in countries below cutoff	3.157	6.540	10.233	14.240	18.398	22.999
Describe Associations							Den 11. Andre kenne						
Panel D: Agriculture	0 ( 10 ***	0.20.4***	0.022	0.222*	0.249	0.410	Panel D: Agriculture	0.200888	0.710***	0.022***	0.022***	1 1 40 8 8 8	1.121.444
ATE-AIPW High	-0.649***	-0.394****	-0.022	-0.552*	-0.348	(0.220)	ATE-AIPW High	-0.389***	-0./10***	-0.822***	-0.932***	-1.148****	-1.151****
ATE ADW Low	(0.111)	(0.108)	0.006	(0.199)	(0.247)	(0.320)	ATTE A IDSV L	(0.075)	(0.070)	(0.124)	(0.121)	(0.102)	(0.187)
ATE-AIF W LOW	-0.244	-0.050	-0.090	(0.260)	-0.027	-0.019	ATE-AIF W LOW	-0.017	-0.404++++	-0.355++++	-0.900****	-1.402++++	-1.110+++
P value High=Low	0.000	0.000	0.501	0.000	0.216	0.150	P value High-L ow	0.004)	0.000	0.000	0.504	0.000	0.816
Avg (trade) in countries above sutoff	0.000	0.000	1.461	2.018	2.409	3.046	Avg (trade) in countries above sutoff	0.000	0.000	1.070	1.402	1.800	2 206
Avg (trade) in countries below cutoff	0.302	0.520	0.981	1 300	1.740	2 210	Avg.(trade) in countries below cutoff	0.334	0.654	1.001	1.406	1.807	2.500
Avg.(trate) in countries below cuton	0.502	0.000	0.701	1.570	1.740	2.210	Avg.(trade) in countries below cuton	0.554	0.054	1.001	1.400	1.007	2.205
Panel c: Mining							Panel c: Mining						
ATE-AIPW High	-0.426***	-0.435**	-0.686***	-0.990***	-1.016***	-1.037**	ATE-AIPW High	-0.547***	-0.764***	-0.965***	-1.551***	-1.925***	-1.875***
	(0.110)	(0.175)	(0.230)	(0.304)	(0.392)	(0.472)	8	(0.092)	(0.148)	(0.198)	(0.278)	(0.350)	(0.474)
ATE-AIPW Low	0.847***	0.348	-0.234	-1.860***	-1.028**	-0.022	ATE-AIPW Low	-0.432***	-0.697***	-1.030***	-1.900***	-1.903***	-2.524***
	(0.197)	(0.227)	(0.261)	(0.350)	(0.413)	(0.580)		(0.088)	(0.165)	(0.207)	(0.256)	(0.316)	(0.397)
P-value High=Low	0.000	0.000	0.004	0.000	0.964	0.021	P-value High=Low	0.055	0.603	0.669	0.076	0.906	0.027
Avg.(trade) in countries above cutoff	0.573	1.149	1.764	2.415	2.977	3.436	Avg.(trade) in countries above cutoff	0.700	1.425	2.161	2.955	3.563	4.132
Avg.(trade) in countries below cutoff	0.449	0.942	1.530	2.164	2.706	3.387	Avg.(trade) in countries below cutoff	0.466	1.001	1.643	2.316	3.000	3.739
Panel d: Manufacturing							Panel d: Manufacturing						
ATE-AIPW High	-0.703***	-1.007***	-1.654***	-2.928***	-3.255***	-3.510***	ATE-AIPW High	-2.218***	-3.927***	-4.484***	-4.700***	-5.101***	-5.660***
	(0.147)	(0.253)	(0.326)	(0.418)	(0.542)	(0.739)		(0.244)	(0.364)	(0.537)	(0.624)	(0.789)	(0.968)
ATE-AIPW Low	-0.944***	-2.327***	-3.363***	-4.899***	-6.421***	-7.584***	ATE-AIPW Low	-1.834***	-3.033***	-3.060***	-4.431***	-6.093***	-6.815***
	(0.137)	(0.224)	(0.318)	(0.412)	(0.536)	(0.732)		(0.296)	(0.411)	(0.578)	(0.656)	(0.831)	(0.979)
P-value High=Low	0.000	0.000	0.000	0.000	0.000	0.000	P-value High=Low	0.057	0.000	0.000	0.435	0.019	0.013
Avg.(trade) in countries above cutoff	1.506	3.075	4.661	6.321	7.771	9.344	Avg.(trade) in countries above cutoff	2.297	4.536	6.786	9.185	11.553	13.961
Avg.(trade) in countries below cutoff	1.010	2.072	3.309	4.654	6.009	7.602	Avg.(trade) in countries below cutoff	1.788	3.670	5.742	7.941	10.269	12.914
Panel e: Services	0.044000	1.00 (444	0.011000			1 125000	Panel e: Services	0.000000	1.015000	1.0000000	1.005404	1.2	
ATE-AIPW High	-0.344***	-1.096***	-0.844***	-1.256***	-1.344***	-1.435***	ATE-AIPW High	-0.639***	-1.315***	-1.332***	-1.007***	-1.266***	-1.444***
	(0.081)	(0.154)	(0.194)	(0.247)	(0.296)	(0.379)		(0.090)	(0.129)	(0.170)	(0.201)	(0.240)	(0.305)
ATE-AIPW LOW	-0.4/9****	-1.394****	-1./94***	-2.318****	-2.8/0***	-3.8/4***	ATE-AIP W LOW	-0.945****	-1.200***	-1.901****	-2.295****	-2.230***	-2.391****
P value High-Low	0.001	0.000	0.000	0.000	0.000	0.000	P value High-Low	0.000	0.277	0.000	0.000	0.000	0.000
1 -value flight=Low	0.001	1.756	0.000	2 704	4.764	5.820	1 -value flight=LOW	0.000	1.278	1.002	2 700	3 504	4 272
Avg.(trade) in countries below outoff	0.885	1.750	2.737	3.794	4.704	5.079	Avg.(trade) in countries below outoff	0.042	1.2/8	1.995	2.799	3 3 2 2	4.275
Observations	708	708	2.343	708	708	708	Observations	708	708	708	708	708	708
# of Crises	20	20	20	20	20	20	# of Crises	20	20	20	20	20	20
Futoff of channel variable modion	-2 647	-2 647	-2 647	-2 647	-2 647	-2 647	Tutoff of channel variable motion	-2 647	-2 647	-2 647	-2 647	-2 647	-2 647
Notes: Robust standard errors clustered	at the cour	trv-level in	parenthese	2.047	** n < 0.05	*** n < 0.01	IPW estimates The dependent variables ar	e 100 times	the cumula	ative change	of agricultu	al mining	2.047

Notes: Robust standard errors clustered at the country-level in parentheses.\* p < 0.1, \*\* p < 0.05, \*\*\* p < 0.1. FW estimates. The dependent variables are 100 times the cumulative change of agricultural, mining, manufacturing, services, and total exports and imports relative to the year prior to the onset of the crisis for years !> 3 firer the onset of the crisis, scaled pre-crisis GDP. Accumulated costs over five years. Observations in the treated and control groups are weighted by the propensity scores predicted in the treatment model. Maximum weights truncated at 10.

Table A.17b: Channels, Cumulative trade losses over five years after banking crises with higher and lower partners' diversification

Panel	I: Exports	s (% of pre	-crisis GD	P)			Pane	l II: Impor	ts (% of pr	e-crisis GD	<b>P</b> )		
	(1)	(2)	(3)	(4)	(5)	(6)		(1)	(2)	(3)	(4)	(5)	(6)
	h=0	h=1	h=2	h=3	h=4	h=5		h=0	h=1	h=2	h=3	h=4	h=5
	Panel B:	Banking c	rises					Panel B	: Banking	crises			
Panel a: Total							Panel a: Total						
ATE-AIPW High	-0.586	-6.705***	-6.833***	-5.696***	-8.003***	-9.403***	ATE-AIPW High	-3.632***	-11.387***	-11.124***	-9.891***	-12.012***	-13.812***
	(0.368)	(0.512)	(0.619)	(0.758)	(0.998)	(1.131)		(0.539)	(0.817)	(0.987)	(1.209)	(1.599)	(1.633)
ATE-AIPW Low	-1.773***	-3.846***	-4.900***	-5.836***	-9.015***	-9.904***	ATE-AIPW Low	-1.576***	-5.140***	-7.882***	-9.455***	-11.356***	-14.855***
	(0.291)	(0.501)	(0.643)	(0.781)	(1.028)	(1.149)		(0.421)	(0.774)	(0.990)	(1.216)	(1.637)	(1.665)
P-value High=Low	0.000	0.000	0.000	0.729	0.042	0.349	P-value High=Low	0.000	0.000	0.000	0.377	0.372	0.197
Avg.(trade) in countries above cutoff	3.323	6.806	10.544	14.475	17.794	21.415	Avg.(trade) in countries above cutoff	3.740	7.721	11.843	16.362	20.229	24.397
Avg.(trade) in countries below cutoff	2.673	5.405	8.500	11.824	15.120	18.851	Avg.(trade) in countries below cutoff	3.452	6.888	10.586	14.539	18.889	23.430
Panel b: Agriculture	0.010	0.000444	0.551000	0.100000	0.0070	0.551000	Panel b: Agriculture	0.4400000	0.500040	0 101000	0.044444	1 18/040	1.102000
ATE-AIPW High	-0.019	-0.399***	-0.554***	-0.498***	-0.336*	-0.554***	ATE-AIPW High	-0.419***	-0.598***	-0.684***	-0.866***	-1.156***	-1.193***
	(0.072)	(0.091)	(0.116)	(0.149)	(0.189)	(0.211)	ATTE A TINK T	(0.065)	(0.086)	(0.105)	(0.140)	(0.211)	(0.200)
ATE-AIPW Low	-0.082	-0.554***	-0.954***	-1.190***	-1.580***	-2.190***	ATE-AIPW Low	-0.012	0.248**	-0.116	-0.481***	-0.752***	-1.598***
D solue High-L on	(0.065)	(0.095)	(0.128)	(0.148)	(0.161)	(0.176)	D makes High-I am	(0.074)	(0.104)	(0.119)	(0.145)	(0.218)	(0.197)
r-value High=Low	0.512	0.029	1.406	2.055	0.000	2.077	r-value High=Low	0.000	0.000	1.074	1.510	1.002	0.000
Avg.(trade) in countries below cutoff	0.444	0.958	1.490	1 422	2.355	2 272	Avg.(trade) in countries below cutoff	0.311	0.085	1.074	1.310	1.902	2.313
Avg.(trade) in countries below cuton	0.317	0.050	1.000	1.423	1.790	2.272	Avg.(trade) in countries below cuton	0.551	0.075	1.014	1.400	1.015	2.203
Panel c: Mining							Panel c: Mining						
ATE-AIPW High	0.063	-1.384***	-1.377***	-1.277***	-1.906***	-2.307***	ATE-AIPW High	-0.467***	-1.820***	-1.685***	-1.393***	-1.983***	-2.755***
·····	(0.180)	(0.260)	(0.291)	(0.318)	(0.381)	(0.470)	·····	(0.134)	(0.207)	(0.240)	(0.294)	(0.367)	(0.328)
ATE-AIPW Low	-0.486***	-0.624**	-0.639**	-1.407***	-2.674***	-1.556***	ATE-AIPW Low	-0.655***	-1.358***	-1.944***	-2.358***	-2.829***	-3.146***
	(0.162)	(0.266)	(0.310)	(0.312)	(0.357)	(0.507)		(0.108)	(0.203)	(0.240)	(0.273)	(0.355)	(0.322)
P-value High=Low	0.000	0.000	0.000	0.415	0.000	0.006	P-value High=Low	0.029	0.000	0.000	0.000	0.000	0.001
Avg.(trade) in countries above cutoff	0.536	1.112	1.726	2.360	2.898	3.336	Avg.(trade) in countries above cutoff	0.695	1.446	2.222	3.046	3.611	4.210
Avg.(trade) in countries below cutoff	0.496	0.998	1.590	2.241	2.806	3.482	Avg.(trade) in countries below cutoff	0.495	1.028	1.643	2.302	3.017	3.710
Panel d: Manufacturing							Panel d: Manufacturing						
ATE-AIPW High	0.023	-2.973***	-2.611***	-1.537***	-2.704***	-3.280***	ATE-AIPW High	-2.023***	-7.348***	-6.772***	-5.672***	-6.491***	-7.555***
	(0.177)	(0.273)	(0.325)	(0.439)	(0.564)	(0.647)		(0.300)	(0.473)	(0.557)	(0.657)	(0.851)	(0.941)
ATE-AIPW Low	-0.648***	-0.985***	-1.147***	-1.138**	-1.613***	-1.748**	ATE-AIPW Low	-1.051***	-3.232***	-4.261***	-4.591***	-5.258***	-7.048***
	(0.147)	(0.269)	(0.390)	(0.493)	(0.598)	(0.705)		(0.233)	(0.434)	(0.555)	(0.674)	(0.897)	(0.991)
P-value High=Low	0.000	0.000	0.000	0.255	0.004	0.002	P-value High=Low	0.000	0.000	0.000	0.001	0.020	0.402
Avg.(trade) in countries above cutoff	1.461	2.954	4.508	6.153	7.485	9.038	Avg.(trade) in countries above cutoff	2.119	4.316	6.547	8.991	11.217	13.583
Avg.(trade) in countries below cutoff	1.104	2.290	3.594	4.986	6.458	8.068	Avg.(trade) in countries below cutoff	2.004	3.963	6.071	8.251	10.712	13.371
<b>D</b>													
Panel e: Services	0.000000	1.010444		2.201000	0.055404	2.2.52000	Panel e: Services	0.522000	1 /01000	1.00000000	1.0.41464		0.010000
ATE-AIPW High	-0.652***	-1.949***	-2.290***	-2.384***	-3.05/***	-3.262***	ATE-AIPW High	-0.723***	-1.021****	-1.982***	-1.961***	-2.383****	-2.310***
ATE ADM L on	(0.102)	(0.147)	(0.208)	(0.265)	(0.366)	(0.437)	ATE ADWIN	(0.097)	(0.155)	(0.179)	(0.228)	(0.292)	2.062***
ATE-AIF W LOW	-0.550+++	-1.085****	-2.100+++	(0.228)	-5.149****	-4.409***	ATE-AIF W LOW	(0.088)	(0.122)	(0.102)	-2.020+++	-2.550+++	-5.005****
P-value High-Low	0.097)	0.107)	0.413	0.338)	0.687	0.000	P-value High-Low	0.000	0.000	0.001	0.634	0.302)	0.000
Avg (trade) in countries above cutoff	0.882	1 802	2 813	3 906	4 878	5 964	Avg (trade) in countries above cutoff	0.614	1 277	2 000	2 816	3 4 9 9	4 291
Avg (trade) in countries below cutoff	0.756	1 488	2.315	3 174	4.065	5.029	Avg (trade) in countries below entoff	0.602	1.223	1.857	2 585	3 346	4.086
Observations	710	710	710	710	710	710	Observations	710	710	710	710	710	710
# of Crises	18	18	18	18	18	18	# of Crises	18	18	18	18	18	18
Cutoff of channel variable, median	-2.570	-2.570	-2.570	-2.570	-2.570	-2.570	Cutoff of channel variable, median	-2.570	-2.570	-2.570	-2.570	-2.570	-2.570
Notes: Robust standard errors clustered	at the coun	trv-level in	narenthese	as * n < 0.1	** n < 0.05	*** n < 0.01	IPW estimates The dependent variables ar	e 100 times	the cumula	tive change	of agricultu	ral mining	

Notes: Robust standard errors clustered at the country-level in parentheses.\* p < 0.1, \*\* p < 0.05, \*\*\* p < 0.1. PW estimates. The dependent variables are 100 times the cumulative change of agricultural, mining, manufacturing, services, and total exports and imports relative to the year prior to the onset of the crisis for years 1-5 after the noset of the crisis, scaled pre-crisis GDP. Accumulated costs over five years. Observations in the treated and control groups are weighted by the propensity scores predicted in the treatment model. Maximum weights truncated at 10.

Table A.17c: Channels, Cumulative trade losses over five years after currency crises with higher and lower partners' diversification

Panel	I: Exports	s (% of pre	-crisis GD	P)			Pane	l II: Impor	ts (% of pr	e-crisis GD	P)		
	(1)	(2)	(3)	(4)	(5)	(6)		(1)	(2)	(3)	(4)	(5)	(6)
	h=0	h=1	h=2	h=3	h=4	h=5		h=0	h=1	h=2	h=3	h=4	h=5
	Panel C:	Currency	crises					Panel C	Currency	crises			
Panel a: Total							Panel a: Total						
ATE-AIPW High	-1.906***	-2.691***	-4.702***	-5.056***	-4.832***	-3.864***	ATE-AIPW High	-4.646***	-5.541***	-6.528***	-7.934***	-7.824***	-5.638***
	(0.284)	(0.390)	(0.543)	(0.719)	(0.863)	(1.180)		(0.415)	(0.556)	(0.784)	(1.023)	(1.248)	(1.638)
ATE-AIPW Low	-1.910***	-3.838***	-4.368***	-5.609***	-8.273***	-9.555***	ATE-AIPW Low	-6.056***	-8.521***	-10.785***	-11.023***	-11.202***	-11.450***
	(0.308)	(0.422)	(0.612)	(0.756)	(0.847)	(0.989)		(0.419)	(0.590)	(0.805)	(1.012)	(1.214)	(1.389)
P-value High=Low	0.981	0.000	0.407	0.253	0.000	0.000	P-value High=Low	0.000	0.000	0.000	0.000	0.000	0.000
Avg.(trade) in countries above cutoff	3.400	6.948	10.694	14.608	18.135	21.811	Avg.(trade) in countries above cutoff	3.961	7.986	12.116	16.485	20.600	24.793
Avg.(trade) in countries below cutoff	2.482	5.023	8.011	11.265	14.308	17.989	Avg.(trade) in countries below cutoff	3.144	6.446	10.070	14.116	18.242	22.809
Panel b: Agriculture							Panel b: Agriculture						
ATE-AIPW High	-0.107**	-0.426***	-0.399***	-0.336*	-0.147	-0.109	ATE-AIPW High	-0.501***	-0.479***	-0.572***	-0.868***	-0.730***	-0.538***
	(0.053)	(0.087)	(0.122)	(0.172)	(0.205)	(0.284)		(0.083)	(0.070)	(0.094)	(0.110)	(0.139)	(0.1/3)
ATE-AIPW Low	0.23/***	-0.097	0.306	-0.161	-0.333*	-0.45/**	ATE-AIPW Low	-0.580***	-0.680***	-0.996***	-1.050***	-0.92/***	-0.921***
B la III's la I	(0.072)	(0.105)	(0.214)	(0.215)	(0.193)	(0.223)	D have III's her to	(0.081)	(0.0/4)	(0.097)	(0.109)	(0.135)	(0.149)
P-value High=Low	0.000	0.001	1.452	0.407	0.311	2.028	P-value High=Low	0.019	0.000	1.082	1.496	1.804	0.001
Avg.(trade) in countries above cuton	0.437	0.921	0.070	1.202	2.461	3.028	Avg.(trade) in countries below outoff	0.328	0.701	0.004	1.460	1.890	2.311
Avg.(trade) in countries below cuton	0.500	0.004	0.979	1.393	1.740	2.209	Avg.(trade) in countries below cuton	0.557	0.031	0.994	1.412	1.607	2.239
Panel c: Mining							Panel c: Mining						
ATE-AIPW High	-0.155	-0.579***	-0.968***	-1.269***	-1.498***	-1.378***	ATE-AIPW High	-0.832***	-1.046***	-1.694***	-1.999***	-1.890***	-1.315***
	(0.196)	(0.153)	(0.210)	(0.272)	(0.323)	(0.392)		(0.079)	(0.134)	(0.173)	(0.234)	(0.270)	(0.389)
ATE-AIPW Low	-0.593***	-1.431***	-1.805***	-2.032***	-3.390***	-3.460***	ATE-AIPW Low	-0.974***	-1.464***	-2.366***	-2.797***	-3.390***	-3.457***
	(0.211)	(0.182)	(0.264)	(0.298)	(0.324)	(0.377)		(0.091)	(0.134)	(0.173)	(0.206)	(0.242)	(0.273)
P-value High=Low	0.000	0.000	0.000	0.000	0.000	0.000	P-value High=Low	0.033	0.000	0.000	0.000	0.000	0.000
Avg.(trade) in countries above cutoff	0.564	1.137	1.755	2.395	2.958	3.418	Avg.(trade) in countries above cutoff	0.696	1.427	2.180	2.959	3.586	4.166
Avg.(trade) in countries below cutoff	0.457	0.950	1.535	2.182	2.720	3.407	Avg.(trade) in countries below cutoff	0.464	0.988	1.606	2.294	2.958	3.687
Panel d: Manufacturing							Panel d: Manufacturing						
ATE-AIPW High	-0.952***	-1.044***	-2.038***	-2.204***	-2.152***	-1.244*	ATE-AIPW High	-2.512***	-3.078***	-3.225***	-3.851***	-3.888***	-2.562***
	(0.128)	(0.211)	(0.295)	(0.396)	(0.498)	(0.649)		(0.253)	(0.333)	(0.457)	(0.598)	(0.730)	(0.924)
ATE-AIPW Low	-0.713***	-1.498***	-2.212***	-2.729***	-3.262***	-3.808***	ATE-AIPW Low	-3.578***	-5.107***	-5.905***	-5.647***	-5.591***	-5.686***
	(0.135)	(0.235)	(0.308)	(0.399)	(0.483)	(0.579)		(0.261)	(0.370)	(0.482)	(0.605)	(0.727)	(0.843)
P-value High=Low	0.001	0.000	0.241	0.013	0.000	0.000	P-value High=Low	0.000	0.000	0.000	0.000	0.000	0.000
Avg.(trade) in countries above cutoff	1.510	3.092	4.702	6.371	7.869	9.484	Avg.(trade) in countries above cutoff	2.290	4.569	6.844	9.240	11.616	14.045
Avg.(trade) in countries below cutoff	0.991	2.024	3.224	4.549	5.844	7.387	Avg.(trade) in countries below cutoff	1.782	3.606	5.644	7.842	10.158	12.786
Descalar Construction							Real and second and						
Panel e: Services	0.000***	0 ( 12 ***	1.207***	1.047***	1.024***	1.124000	Panel e: Services	0.001***	0.020***	1.027844	1.015***	1.21/000	1.000***
ATE-AIP w High	-0.692***	-0.64.5****	-1.296***	-1.24/***	-1.034****	-1.134***	ATE-AIPW High	-0.801***	-0.938***	-1.05/****	-1.215****	-1.510***	-1.222****
ATE ADVI on	(0.081)	(0.145)	(0.187)	(0.232)	(0.504)	(0.592)	ATE ADWIN	(0.075)	(0.110)	(0.178)	(0.211)	(0.249)	(0.299)
ATE-AIF W LOW	-0.840****	(0.122)	-0.037***	-0.08/***	-1.288****	(0.252)	ATE-AIF W LOW	-0.924++++	(0.122)	-1.518-+++	(0.217)	(0.248)	-1.585****
P-value High-Low	0.005	0.082	0.000	0.003	0.201	0.018	P-value High-Low	0.021	0.000	0.000	0.016	0.248)	0.469
Avg (trade) in countries above cutoff	0.890	1 798	2 785	3 841	4 827	5 881	Avg (trade) in countries above cutoff	0.647	1 288	2 008	2 801	3 502	4 272
Avg (trade) in countries below cutoff	0.390	1 445	2.785	3 141	4.003	4 986	Avg (trade) in countries below cutoff	0.561	1.200	1.826	2.568	3 319	4 077
Observations	710	710	710	710	710	710	Observations	710	710	710	710	710	710
# of Crises	19	19	19	19	19	19	# of Crises	19	19	19	19	19	19
Cutoff of channel variable median	-2.659	-2.659	-2.659	-2.659	-2.659	-2.659	Cutoff of channel variable median	-2.659	-2.659	-2.659	-2.659	-2.659	-2.659
Notes: Robust standard errors clustered	at the cour	try-level in	narenthese	s*n<01	** n < 0.05	*** n < 0.01	IPW estimates The dependent variables ar	= 100 times	the cumuls	tive change	of arricultur	al mining	

Notes: Robust standard errors clustered at the country-level in parentheses.\* p < 0.05, \*\*\* p < 0.01. IPW estimates. The dependent variables are 100 times the cumulative change of agricultural, mining, manufacturing, services, and total exports and imports relative to the year prior to the onset of the crisis for years 1-5 after the onset of the crisis, scaled pre-crisis GDP. Accumulated costs over five years. Observations in the treated and control groups are weighted by the propensity scores predicted in the treatment model. Maximum weights truncated at 10.

Table A.18a: Channels, Cumulative trade losses over five years after debt crises with higher and lower trading partners' growth

http://productionality.com/productionality	Panel	I: Exports	s (% of pre	-crisis GD	P)			Pane	l II: Impor	ts (% of pi	e-crisis GD	P)		
hed         hed <th></th> <th>(1)</th> <th>(2)</th> <th>(3)</th> <th>(4)</th> <th>(5)</th> <th>(6)</th> <th></th> <th>(1)</th> <th>(2)</th> <th>(3)</th> <th>(4)</th> <th>(5)</th> <th>(6)</th>		(1)	(2)	(3)	(4)	(5)	(6)		(1)	(2)	(3)	(4)	(5)	(6)
Partel 3: Dots - 1:500: - 1:500: - 3:500: -		h=0	h=1	h=2	h=3	h=4	h=5		h=0	h=1	h=2	h=3	h=4	h=5
Panel a: Total           ATE-ALPW High         0.137         0.466         0.0460         0.0400         0.0400         0.0400         0.0400         0.0414         0.0207         0.0237         0.2738         0.2548         0.0414         0.0214         0.0201         0.0500         0.000		Panel	A: Debt cri	ses					Panel	A: Debt ci	ises			
ATTE-AIPW High       -0.172       -1.326***       -1.185***       -2.56***       -3.81***       -0.08*         ATTE-AIPW High       -0.297***       -4.43***       -5.45***       -0.25***       -2.56***       -2.56***       -2.56***       -2.56*****       -2.56*****       -2.56*****       -2.56*********       -2.56************************************	Panel a: Total							Panel a: Total						
0.309         0.466         0.0469         0.176         1.776         4.776           TPC-LIPV Low         0.0250         0.0377         0.0572         0.078         0.0451         0.0590         0.1233         1.1201         1.203         1.213         1.213	ATE-AIPW High	-0.172	-1.326***	-2.185***	-4.365***	-2.954***	0.138	ATE-AIPW High	-1.994***	-2.942***	-2.033**	-2.356*	-3.811**	-0.008
ATE-AIPW Low       2.507***       4.413***       5.403***       1.520***       3.537       7.38       9.721       0.732       7.732       7.134       1.230       1.230       0.133       0.133       0.131       0.153       0.235       0.732       0.		(0.309)	(0.466)	(0.606)	(0.810)	(1.048)	(1.376)		(0.414)	(0.620)	(0.950)	(1.273)	(1.758)	(2.514)
matrix         (0.265)         (0.377)         (0.572)         (0.788)         (0.963)         (1.170)         (0.410)         (0.420)         (0.420)         (0.423)         (0.443)         (0.433)         (0.433)         (0.433)         (0.433)         (0.443)         (0.443)         (0.514)         (0.524) <th< th=""><th>ATE-AIPW Low</th><th>-2.507***</th><th>-4.443***</th><th>-5.493***</th><th>-8.602***</th><th>-11.205***</th><th>-13.270***</th><th>ATE-AIPW Low</th><th>-5.291***</th><th>-8.481***</th><th>-11.274***</th><th>-13.819***</th><th>-15.840***</th><th>-19.211***</th></th<>	ATE-AIPW Low	-2.507***	-4.443***	-5.493***	-8.602***	-11.205***	-13.270***	ATE-AIPW Low	-5.291***	-8.481***	-11.274***	-13.819***	-15.840***	-19.211***
Pralue High-Low         0.000		(0.265)	(0.397)	(0.572)	(0.798)	(0.963)	(1.170)		(0.410)	(0.624)	(0.926)	(1.209)	(1.668)	(2.232)
Arg(trade) in countries above cutoff       3.38       7.038       10.885       18.763       22.794       Arg(trade) in countries above cutoff       1.526       18.261       18.353       22.883       27.700         Arg(trade) in countries above cutoff       0.502***       0.609***       0.522***       0.725***       1.796       2.402       4.440       5.52       7.700         ATE-AIPW High       0.502***       0.522***	P-value High=Low	0.000	0.000	0.000	0.000	0.000	0.000	P-value High=Low	0.000	0.000	0.000	0.000	0.000	0.000
Arg.(trade) in countries below cutoff         1.53         1.73         6.293         7.925           Panel is: Agriculture         Arg.(trade) in countries below cutoff         1.536         1.72         2.502         4.440         5.702         7.410           Panel is: Agriculture         Arg.(trade) in countries below cutoff         0.095         0.220**         0.280*         0.095*         0.299**         0.992**         0.591**         0.992**         0.591**         0.592**         0.592**         0.591**         0.592**         0.591**         0.592**         0.591**         0.592**         0.591**         0.592**         0.591***         0.591**         0.591**	Avg.(trade) in countries above cutoff	3.398	7.038	10.886	14.885	18.763	22.794	Avg.(trade) in countries above cutoff	4.046	8.612	13.261	18.035	22.883	27.790
Panel b: Agriculture         Panel b: Agriculture         Panel b: Agriculture         Panel b: Agriculture           ATE-AIPW High         0.502***         0.609***         0.552***         0.521**	Avg.(trade) in countries below cutoff	1.239	1.969	3.337	5.137	6.293	7.925	Avg.(trade) in countries below cutoff	1.536	1.762	2.502	4.440	5.702	7.410
Prance I: Agriculture         Description         Output IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII								<b>B</b> 11 4 4 1						
Alte-AlpW high       0.522***       0.52***       1.796***       4.22***       0.029       0.029       0.029       0.029       0.039       0.029       0.039       0.029       0.039       0.039       0.029***       0.039****       0.039****       0.039****       0.039****       <	Panel b: Agriculture	0.500.000	0 (000000	0.5/0404	0.550000	1.50 (044)	1.005444	Panel b: Agriculture	0.005	0.000000	0.00544	0.500444	0.0220440	0.544.0
ATE-AIPW Low       (0.0131)       (0.168)       (0.214)       (0.032)       (0.034)       (0.013)       (0.013)       (0.014)       (0.121)       (0.219)       (0.030)         P-alue High=Low       0.000       0.0	ATE-AIPW High	0.502***	0.609***	0.562***	0.755***	1.796***	4.327***	ATE-AIPW High	-0.095	-0.220***	-0.285**	-0.599***	-0.932***	-0.541*
Alte-Lift W Low       0.000		(0.084)	(0.131)	(0.168)	(0.214)	(0.352)	(0.624)		(0.064)	(0.078)	(0.135)	(0.164)	(0.219)	(0.300)
Decise         0.000         0.002         0.0133         0.0251         0.0253         0.0253         0.0251         0.0253         0.0251 <th>ATE-AIPW LOW</th> <td>-0.9/3****</td> <td>-0.594***</td> <td>-0.020</td> <td>0.096</td> <td>-0.090***</td> <td>-0.980***</td> <th>ATE-AIP W LOW</th> <td>-0.303****</td> <td>-0.903***</td> <td>-0.9/3****</td> <td>-1.290***</td> <td>-1.040***</td> <td>-1./35****</td>	ATE-AIPW LOW	-0.9/3****	-0.594***	-0.020	0.096	-0.090***	-0.980***	ATE-AIP W LOW	-0.303****	-0.903***	-0.9/3****	-1.290***	-1.040***	-1./35****
F-num fight=Low         0.000	D malma Iliah I am	0.000	0.092)	0.000	0.012	0.000	0.000	D volue High-L or	0.000	0.000	0.000	0.000	0.000	0.000
Arg(trade) in countries above cutoff       0.33       0.907       1.389       1.997       2.403       2.501         Arg(trade) in countries above cutoff       0.514       0.138       0.525       0.791       0.000       1.191         Arg(trade) in countries above cutoff       0.438       0.528       0.791       0.398       0.538       0.538       0.539       1.054         Panel c: Mining       ATE-AIPW High       0.438*       0.478*       0.527       0.321       0.0237       0.0237       0.0217       0.0237       0.037       0.045       0.957*         ATE-AIPW High       0.424***       0.005       0.017       -0.083       0.045       0.957*         Pralue High=Low       0.001       0.000	r-value rigit=Low	0.000	0.000	1.280	1.907	0.000	0.000	r-value nigit=Low	0.000	0.000	1 1 9 9	1.622	2.008	0.000
$\begin the solution (and the below chain (b) (a) (b) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c$	Avg.(trade) in countries below outoff	0.438	0.907	0.525	0.701	2.403	2.981	Avg.(trade) in countries below cutoff	0.334	0.774	0.424	0.600	0.822	2.560
Panel c: Mining         Panel c: Mining           ATE-AIPW High         0.478***         0.524**         0.0374         0.0398         0.0555           ATE-AIPW Low         -0.112         -0.621***         1.40****         3.184****         (0.085)         (0.169)         0.211         (0.237)         (0.374)         (0.375)           ATE-AIPW Low         -0.112         -0.621***         -1.420***         3.202***         -3.506***         4.160***           Arg.(trade) in countries above cutoff         0.071         1.063         0.2225         (0.337)         (0.442)           P-value High=Low         0.000	Avg.(trade) in countries below cuton	0.151	0.218	0.323	0.791	0.900	1.191	Avg.(trade) in countries below cuton	0.219	0.275	0.424	0.090	0.852	1.004
ATE-AIPW High         0.488**         0.478**         0.524**         0.106         1.599***         3.184***           MTE-AIPW High         0.418**         0.6277         0.324         0.398         0.335           ATE-AIPW Low         0.0117         0.0133         0.229**         3.068**         4.160***           0.117         0.0133         0.229**         0.319         0.373         0.442           P-value High=Low         0.000	Panel c: Mining							Panel c: Mining						
Intrine Inga       (0.000       (0.007)       (0.027) <th>ATE-AIPW High</th> <td>0.488**</td> <td>0.478**</td> <td>0 524**</td> <td>0.106</td> <td>1 599***</td> <td>3 184***</td> <th>ATE-AIPW High</th> <td>-0 244***</td> <td>0.005</td> <td>0.077</td> <td>-0.083</td> <td>0.045</td> <td>0.957*</td>	ATE-AIPW High	0.488**	0.478**	0 524**	0.106	1 599***	3 184***	ATE-AIPW High	-0 244***	0.005	0.077	-0.083	0.045	0.957*
ATE-AIPW Low       -0.017 + 0.027 + 0.027 + 0.027 + 0.000 + 3.506 + 4.160 + 4.	in the second second	(0.205)	(0.237)	(0.257)	(0.324)	(0.398)	(0.535)	interim () ingu	(0.085)	(0.169)	(0.211)	(0.287)	(0.374)	(0.535)
Contribution         Contribution<	ATE-AIPW Low	-0.112	-0.621***	-1.420***	-3.027***	-3.506***	-4.160***	ATE-AIPW Low	-0.599***	-1.073***	-1.682***	-2.655***	-3.361***	-4.206***
P-value High=Low         0.000		(0.117)	(0.163)	(0.225)	(0.319)	(0.373)	(0.442)		(0.081)	(0.136)	(0.183)	(0.253)	(0.357)	(0.462)
Avg.(trade) in countries above cutoff       0.674       1.385       2.089       2.910       3.670       4.399       Avg.(trade) in countries above cutoff       0.691       1.508       2.345       3.203       3.988       4.785         Avg.(trade) in countries above cutoff       0.098       -0.249       -0.043       -0.086       -0.287       -0.413         Panel d: Manufacturing       TTE-AIPW High       -0.648 <sup>++++</sup> -1.246 <sup>++++</sup> -1.246 <sup>++++</sup> -1.246 <sup>++++</sup> -1.749 <sup>++++</sup> -0.641       -0.423       -1.150       0.384       0.336         ATE-AIPW Low       -0.944 <sup>++++</sup> -1.876 <sup>++++</sup> -2.578 <sup>++++</sup> -3.785 <sup>++++</sup> -4.737 <sup>+++</sup> -5.246 <sup>++++</sup> -2.778 <sup>++++</sup> -1.010 <sup>++++</sup> -0.061       -0.423       -1.150       0.069       0.153       0.0227       0.138       0.403       0.0503       0.0613       0.0265       0.396       0.560       0.6689       0.9933       1.248 <sup>++</sup> -1.010 <sup>++++</sup> -1.010 <sup>++++</sup> -1.010 <sup>++++</sup> -1.010 <sup>++++</sup> -1.010 <sup>++++</sup> -1.010 <sup>+++++</sup> -1.010 <sup>+++++</sup> -1.010 <sup>++++</sup> -1.010 <sup>++++</sup> -1.010 <sup>++++</sup> -1.010 <sup>+++++</sup> -1.010 <sup>++++++++++</sup> -1.010 <sup>++++++++++++++++++++++++++++++++++</sup>	P-value High=Low	0.001	0.000	0.000	0.000	0.000	0.000	P-value High=Low	0.000	0.000	0.000	0.000	0.000	0.000
Avg.(trade) in countries below cutoff       0.08       0.0249       0.043       0.086       0.287       0.041         Panel d: Manufacturing       ATE-AIPW High       0.684****       1.246***       2.044***       3.457****       4.737***         ATE-AIPW High       0.0530       0.0326       0.0300       0.0515       0.0200       0.0326       0.0433       0.0609       0.151       0.061       0.423       1.560       0.609         ATE-AIPW Low       0.044***       1.876****       2.378***       4.737***       4.737***       4.737***       ATE-AIPW High       1.124***       1.749***       0.641       0.423       1.560       0.609         Arg.(trade) in countries above cutoff       0.155       0.0227       (0.318)       0.403       0.503       0.613       0.728       ATE-AIPW High       1.124***       1.749***       -6.069       0.000	Avg.(trade) in countries above cutoff	0.674	1.385	2.089	2.910	3.670	4,399	Avg.(trade) in countries above cutoff	0.691	1.508	2.345	3.203	3.988	4,785
Panel d: Manufacturing         Panel d: Manufacturing<	Avg.(trade) in countries below cutoff	-0.098	-0.249	-0.043	-0.086	-0.287	-0.413	Avg.(trade) in countries below cutoff	0.154	0.062	0.115	0.316	0.384	0.336
Panel d: Manufacturing         Panel d: Manufacturing<														
ATE-AIPW High       -0.684***       -1.25***       -1.014***       -1.01	Panel d: Manufacturing							Panel d: Manufacturing						
(0.139)       (0.200)       (0.320)       (0.319)       (0.210)       (0.379)       (0.379)       (0.779)       (1.073)       (1.535)         ATE-AIPW Low       (0.135)       (0.227)       (0.318)       (0.409)       (0.515)       (0.627)       (0.320)       (0.579)       (0.582)       (0.779)       (1.073)       (1.535)         P-value High=Low       (0.000)       0.000       0.000       0.003       0.003       0.013       (0.417)       7.23       9.355         Arg.(trade) in countries below cutoff       0.704       1.146       1.655       2.702       3.438       4.293         Panle e: Services       Xarg.(trade) in countries below cutoff       0.478       0.157       (0.237)       (0.238)       0.0271       0.328       0.4271         AtE-AIPW High       -0.478***       -1.527***       -1.767***       -2.032***       -2.635***       -2.635***       -0.977***       -1.184***       -1.250***       -1.032***         Arg.(trade) in countries above cutoff       0.869       (0.136)       (0.190)       (0.271)       (0.242)       0.247       (0.168)       (0.277)       (0.282)       (0.371)         AtE-AIPW High       -0.478***       -1.527***       -1.032***       -2.032***       -2.032***	ATE-AIPW High	-0.684***	-1.246***	-2.044***	-3.457***	-4.317***	-4.737***	ATE-AIPW High	-1.124***	-1.749***	-0.641	-0.423	-1.560	0.609
ATE-AIPW Low       0.944***       1.876***       2.578***       3.785***       4.767***       5.246***       ATE-AIPW Low       3.070***       4.905***       6.402***       7.588***       8.197***       10.144***         P-value High=Low       0.000       0.001       0.135       5.565       2.722       3.438       4.295       4.2635***       4.767***       2.358**       4.295       4.767***       1.364***       1.354**       1.364***       1.032***       1.364***       1.032***       1.032****       1.032****       1.032****       1.0		(0.139)	(0.260)	(0.326)	(0.409)	(0.515)	(0.629)		(0.271)	(0.379)	(0.582)	(0.779)	(1.073)	(1.535)
(0.135)         (0.217)         (0.318)         (0.403)         (0.503)         (0.613)         (0.265)         (0.366)         (0.569)         (0.689)         (0.933)         (1.249)           P-value High=Low         0.000         0.000         0.003         0.003         0.001         P-value High=Low         0.000         15.55           Arg.(trade) in countries above cutoff         0.735         0.1277         0.238         0.4277         Arg.(trade) in countries above cutoff         0.859         0.974         1.461         2.504         3.514         4.724           Arg.(trade) in countries above cutoff         0.0489         (0.135         0.1297         (0.238)         0.4277         (0.839)         <	ATE-AIPW Low	-0.944***	-1.876***	-2.578***	-3.785***	-4.767***	-5.246***	ATE-AIPW Low	-3.070***	-4.905***	-6.402***	-7.558***	-8.197***	-10.014***
P-value High=Low         0.000         0.000         0.000         0.003         0.003         0.001         P-value High=Low         0.000		(0.135)	(0.227)	(0.318)	(0.403)	(0.503)	(0.613)		(0.265)	(0.396)	(0.560)	(0.689)	(0.933)	(1.249)
Avg.(trade) in countries above cutoff       1.405       2.936       4.546       6.147       7.723       9.255       Avg.(trade) in countries above cutoff       2.328       4.894       7.475       10.074       12.796       15.565         Avg.(trade) in countries above cutoff       0.704       1.146       1.655       2.702       3.438       4.235         Panel e: Services       (0.086)       0.136       (0.199)       (0.277)       (0.328)       (0.427)       (0.090)       (0.137)       (0.189)       (0.227)       (0.282)       (0.336)         ATE-AIPW Law       (0.478*** - 1.352*** - 1.476*** - 1.267***       2.363***       2.263***       2.635***       2.702       3.438       4.907       (0.427)       (0.189)       (0.227)       (0.281)       (0.336)       (0.292)       (0.227)       (0.328)       (0.427)         Avg.(trade) in countries above cutoff       0.510       0.434       (0.136)       (0.192)       (0.244)       (0.350)       (0.418)       (0.133)       (0.227)       (0.229)       (0.249)       (0.351)         Avg.(trade) in countries above cutoff       0.510       0.854       1.201       1.70       2.42       2.854**         Observations       698       698       698       698       698 <th< th=""><th>P-value High=Low</th><th>0.000</th><th>0.000</th><th>0.000</th><th>0.003</th><th>0.003</th><th>0.010</th><th>P-value High=Low</th><th>0.000</th><th>0.000</th><th>0.000</th><th>0.000</th><th>0.000</th><th>0.000</th></th<>	P-value High=Low	0.000	0.000	0.000	0.003	0.003	0.010	P-value High=Low	0.000	0.000	0.000	0.000	0.000	0.000
Avg.(trade) in countries below cutoff       0.704       1.146       1.655       2.702       3.438       4.293         Panel e: Services       ATE-AIPW High       -0.478***       -1.167***       -1.207***       -2.032***       -2.635***       Area (trade) in countries below cutoff       0.859       0.994       1.461       2.604       3.514       4.724         Panel e: Services       ATE-AIPW High       -0.478***       -1.767***       -2.032***       -2.635***       Area (trade) in countries below cutoff       0.0879       0.0170       0.184***       -1.250***       -1.036***       -1.032****       -1.032****       -1.032***       -1.032****       -1.032****       -1.032****       -1.032****	Avg.(trade) in countries above cutoff	1.405	2.936	4.546	6.147	7.723	9.355	Avg.(trade) in countries above cutoff	2.328	4.894	7.475	10.074	12.796	15.565
Panel e: Services         Panel e: Services           ATE-AIPW High         -0.478*** -1.167*** -1.227*** -1.767*** -2.032*** -2.635***         -ATE-AIPW High         -0.530*** -0.977*** -1.184*** -1.250*** -1.364*** -1.032***           ATE-AIPW Low         -0.478*** -1.352*** -1.476*** -1.227*** -1.767*** -2.032*** -2.835***         -ATE-AIPW High         -0.530*** -0.977*** -1.184*** -1.250*** -1.364*** -1.032***           ATE-AIPW Low         -0.478*** -1.352*** -1.476*** -1.230*** -2.236*** -2.236*** -2.238*** -2.238*** -2.218**** -2.218**** -2.218*** -2.218*** -2.218*** -2.218*** -2.218*** -	Avg.(trade) in countries below cutoff	0.704	1.146	1.655	2.702	3.438	4.293	Avg.(trade) in countries below cutoff	0.859	0.994	1.461	2.604	3.514	4.724
Panel e: Services         Panel e: Services           ATE-AIPW High         -0.478*** -1.167*** -1.227*** -1.767*** -2.032*** -2.635***         ATE-AIPW High         -0.530*** -0.977*** -1.184*** -1.250*** -1.364*** -1.032*** -1.364*** -1.032***           ATE-AIPW Low         -0.478*** -1.352*** -1.476*** -1.227*** -1.767*** -2.032*** -2.635***         ATE-AIPW High         -0.530*** -0.977*** -1.184*** -1.250*** -1.364*** -1.032*** -1.032***           ATE-AIPW Low         -0.478*** -1.352*** -1.476*** -1.886*** -2.236*** -2.834**         (0.090)         (0.137)         (0.189)         (0.227)         (0.281)         (0.325)           P-value High=Low         0.0192         (0.024)         (0.329)         (0.244)         (0.313)         (0.130)         (0.192)         (0.264)         (0.329)         (0.244)         (0.103)         (0.132)         (0.123)         (0.124)         (0.163)         (0.132)         (0.132)         (0.124)         (0.163)         (0.132)         (0.229)         (0.249)         (0.371)         (0.183)         (0.227)         (0.229)         (0.249)         (0.312)           Arg.(trade) in countries above cutoff         0.811         1.810         2.863         3.931         4.967         6.059         Arg.(trade) in countries above cutoff         0.672         1.436         2.253         3.125         4.001         4.861														
ATE-AIPW High       -0.478***       -1.167***       -1.227***       -1.767***       -2.032***       -2.018**       -2.010*** <th>Panel e: Services</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>Panel e: Services</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	Panel e: Services							Panel e: Services						
Constraint         Constraint <thconstraint< th="">         Constraint         Constrai</thconstraint<>	ATE-AIPW High	-0.478***	-1.167***	-1.227***	-1.767***	-2.032***	-2.635***	ATE-AIPW High	-0.530***	-0.977***	-1.184***	-1.250***	-1.364***	-1.032***
ATE-AIPW Low         -0.478***         -1.352***         1.476***         -1.856***         -2.336***         -2.336***         -2.236***         -2.259***         -2.299***         -2.218***         -2.325***         -2.424**         -3.256***           P-value High=Low         0.994         0.010         0.012         0.024         0.1239         0.029         0.0249         0.037         0.013         0.342         0.124         0.126         (0.133)         0.0139         0.029         0.0249         (0.357)           Avg.(trade) in countries above cutoff         0.881         1.810         2.863         3.931         4.967         6.059         Avg.(trade) in countries above cutoff         0.672         1.436         2.253         3.125         4.001         4.861           Avg.(trade) in countries above cutoff         0.501         0.854         1.201         1.70         2.42         2.854         Avg.(trade) in countries above cutoff         0.672         1.436         2.253         3.125         4.001         4.861           Avg.(trade) in countries above cutoff         0.672         1.436         5.29         0.971         1.287           Observations         19         19         19         19         19         19         19         19		(0.086)	(0.136)	(0.199)	(0.257)	(0.328)	(0.427)		(0.090)	(0.137)	(0.189)	(0.227)	(0.282)	(0.351)
No.84         (0.136)         (0.129)         (0.264)         (0.329)         (0.424)         (0.103)         (0.139)         (0.138)         (0.229)         (0.24)         (0.357)           P-value High=Low         0.994         0.001         0.013         0.322         0.124         0.126         P-value High=Low         0.000         0.001         0.013<	ATE-AIPW Low	-0.478***	-1.352***	-1.476***	-1.886***	-2.236***	-2.883***	ATE-AIPW Low	-1.259***	-1.599***	-2.218***	-2.315***	-2.642***	-3.256***
P-value High=Low         0.994         0.001         0.013         0.342         0.124         0.126         P-value High=Low         0.000		(0.084)	(0.136)	(0.192)	(0.264)	(0.329)	(0.424)		(0.103)	(0.139)	(0.183)	(0.229)	(0.294)	(0.357)
Avg.(trade) in countries above cutoff         0.581         1.810         2.865         3.931         4.967         6.059         Avg.(trade) in countries above cutoff         0.672         1.436         2.253         3.125         4.001         4.861           Avg.(trade) in countries above cutoff         0.501         0.854         1.201         1.730         2.242         2.884         Avg.(trade) in countries above cutoff         0.305         0.434         0.501         0.829         0.971         1.287           Observations         698 <th>P-value High=Low</th> <th>0.994</th> <th>0.001</th> <th>0.013</th> <th>0.342</th> <th>0.124</th> <th>0.126</th> <th>P-value High=Low</th> <th>0.000</th> <th>0.000</th> <th>0.000</th> <th>0.000</th> <th>0.000</th> <th>0.000</th>	P-value High=Low	0.994	0.001	0.013	0.342	0.124	0.126	P-value High=Low	0.000	0.000	0.000	0.000	0.000	0.000
Avg.(trade) in countries below cutoff         0.305         0.434         0.501         0.829         0.971         1.287           Observations         698	Avg.(trade) in countries above cutoff	0.881	1.810	2.863	3.931	4.967	6.059	Avg.(trade) in countries above cutoff	0.672	1.436	2.253	3.125	4.001	4.861
Ubservations 098 698 698 698 698 698 098 005 005 005 005 005 005 005 005 005 00	Avg.(trade) in countries below cutoff	0.501	0.854	1.201	1.730	2.242	2.854	Avg.(trade) in countries below cutoff	0.305	0.434	0.501	0.829	0.971	1.287
# or Crises 19 19 19 19 19 19 19 19 19 19 19 19 19	Ubservations	698	698	698	698	698	698	Ubservations # . f Color	698	698	698	698	698	698
Cutoff of channel variable, median 7.041 7.041 7.041 7.041 7.041 7.041 7.041 7.041 7.041 7.041 7.041 7.041 7.041	# of Urises	19	19	19	19	19	19	# of Crises	19	19	19	19	19	19
Network and and among all stand at the country land in another as a COL ### COC #### COL IDW attended. The descendent unitables on 100 times the COL is COL is COL is COL IN COLOR OF THE COLOR OF THE DESCENCE OF	Cutor of channel variable, median	7.041	/.041	/.041	/.041	/.041	/.041	Uton of channel variable, median	/.041	/.041	/.041	/.041	/.041	/.041

Notes: Robust standard errors clustered at the country-level in parentheses.\* p < 0.1, \*\* p < 0.05, \*\*\* p < 0.1. PW estimates. The dependent variables are 100 times the cumulative change of agricultural, mining, manufacturing, services, and total exports and imports relative to the year prior to the onset of the crisis for years 1-5 after the noset of the crisis, scaled pre-crisis GDP. Accumulated costs over five years. Observations in the treated and control groups are weighted by the propensity scores predicted in the treatment model. Maximum weights truncated at 10.

Table A.18b: Channels, Cumulative trade losses over five years after banking crises with higher and lower trading partners' growth

Panel	I: Exports	s (% of pre	-crisis GD	P)			Pane	l II: Impor	ts (% of pr	e-crisis GD	P)		
	(1)	(2)	(3)	(4)	(5)	(6)		(1)	(2)	(3)	(4)	(5)	(6)
	h=0	h=1	h=2	h=3	h=4	h=5	-	h=0	h=1	h=2	h=3	h=4	h=5
	Panel B:	Banking c	rises					Panel B	: Banking	crises			
Panel a: Total							Panel a: Total						
ATE-AIPW High	-1.192***	-4.281***	-4.924***	-5.350***	-8.152***	-8.547***	ATE-AIPW High	-3.316***	-8.238***	-10.201***	-10.742***	-11.746***	-12.816***
	(0.317)	(0.516)	(0.575)	(0.697)	(0.916)	(1.126)		(0.455)	(0.745)	(0.812)	(0.956)	(1.226)	(1.428)
ATE-AIPW Low	-1.372***	-4.084***	-5.190***	-5.163***	-6.886***	-7.061***	ATE-AIPW Low	-2.543***	-3.910***	-5.419***	-6.725***	-8.888***	-11.218***
	(0.304)	(0.515)	(0.573)	(0.740)	(0.974)	(1.135)		(0.479)	(0.736)	(0.816)	(0.993)	(1.281)	(1.485)
P-value High=Low	0.387	0.382	0.294	0.600	0.007	0.010	P-value High=Low	0.024	0.000	0.000	0.000	0.000	0.046
Avg.(trade) in countries above cutoff	3.566	7.497	11.648	15.781	19.801	23.915	Avg.(trade) in countries above cutoff	4.403	9.231	14.243	19.193	24.208	29.261
Avg.(trade) in countries below cutoff	1.547	2.546	4.018	6.215	7.919	10.127	Avg.(trade) in countries below cutoff	1.528	2.544	3.707	6.150	8.179	10.579
Panel b: Agriculture	0.000000	0.500444	0 10 50 5000	0.552444	1.005404	1.252000	Panel b: Agriculture	0.070000	0.500000	0.001.000	1.000404	1.0100000	1 550000
ATE-AIPW High	-0.200***	-0.509***	-0.635***	-0.//3***	-1.05/***	-1.352***	ATE-AIPW High	-0.363***	-0.592***	-0.//1***	-1.098***	-1.349***	-1.550***
	(0.062)	(0.092)	(0.119)	(0.148)	(0.176)	(0.211)	ATTE A TOXY I	(0.053)	(0.093)	(0.098)	(0.110)	(0.140)	(0.157)
ATE-AIPW Low	-0.050	-0.413***	-0.648***	-0.860***	-1.135***	-1.660***	ATE-AIPW Low	-0.08/	0.622***	0.276**	-0.035	-0.244	-1.051***
Barley II'sha Lan	(0.063)	(0.093)	(0.113)	(0.130)	(0.152)	(0.182)	Barbar II'sha Lam	(0.073)	(0.107)	(0.111)	(0.122)	(0.157)	(0.169)
P-value Hign=Low	0.000	0.108	0.884	0.300	0.384	0.009	P-value High=Low	0.000	0.000	0.000	0.000	0.000	0.000
Avg.(trade) in countries above cutoff	0.469	0.975	1.500	2.034	2.55/	3.151	Avg.(trade) in countries above cutoff	0.372	0.798	1.248	1./14	2.210	2.706
Avg.(trade) in countries below cuton	0.159	0.285	0.534	0.852	1.075	1.376	Avg.(trade) in countries below cuton	0.225	0.378	0.531	0.805	0.969	1.201
Panel c: Mining							Panel c: Mining						
ATE-AIPW High	0.009	-0.679***	-0.428*	-0.577*	-1.508***	-1.441***	ATE-AIPW High	-0.585***	-1.156***	-1.559***	-1.615***	-1.878***	-2.244***
0	(0.171)	(0.226)	(0.245)	(0.311)	(0.406)	(0.463)	5	(0.101)	(0.142)	(0.152)	(0.179)	(0.232)	(0.277)
ATE-AIPW Low	-0.090	-0.518**	-1.177***	-1.831***	-2.266***	-1.374***	ATE-AIPW Low	-0.708***	-1.027***	-1.392***	-2.011***	-2.464***	-2.873***
	(0.153)	(0.220)	(0.223)	(0.278)	(0.383)	(0.494)		(0.098)	(0.145)	(0.154)	(0.184)	(0.228)	(0.270)
P-value High=Low	0.309	0.050	0.000	0.000	0.000	0.812	P-value High=Low	0.001	0.033	0.009	0.000	0.000	0.000
Avg.(trade) in countries above cutoff	0.739	1.537	2.358	3.221	4.035	4.789	Avg.(trade) in countries above cutoff	0.778	1.661	2.609	3.521	4.370	5.213
Avg.(trade) in countries below cutoff	0.002	-0.071	0.025	0.164	0.148	0.239	Avg.(trade) in countries below cutoff	0.129	0.176	0.229	0.517	0.666	0.784
Panel d: Manufacturing							Panel d: Manufacturing						
ATE-AIPW High	-0.429***	-0.993***	-1.162***	-1.199**	-2.120***	-2.465***	ATE-AIPW High	-2.092***	-5.195***	-5.912***	-5.831***	-6.120***	-6.584***
	(0.159)	(0.288)	(0.380)	(0.465)	(0.532)	(0.647)		(0.271)	(0.448)	(0.494)	(0.583)	(0.742)	(0.861)
ATE-AIPW Low	-0.448***	-1.742***	-1.791***	-1.0/0**	-1.254**	-0.938	ATE-AIPW Low	-1.324***	-2.894***	-3.242***	-5.455***	-4.52/***	-5.18/***
B la III's la I	(0.151)	(0.263)	(0.323)	(0.429)	(0.557)	(0.690)	B b III'-bI	(0.281)	(0.443)	(0.492)	(0.596)	(0.771)	(0.900)
P-value Hign=Low	0.846	0.000	0.015	0.704	0.018	0.002	P-value High=Low	0.000	0.000	0.000	0.000	0.000	0.013
Avg.(trade) in countries above cutoff	1.442	3.063	4.762	0.430	8.055	9.000	Avg.(trade) in countries above cutor	2.517	5.229	7.964	10.650	13.449	16.297
Avg.(trade) in countries below cutoff	0.845	1.429	2.087	3.100	4.057	5.205	Avg.(trade) in countries below cuton	0.899	1.4//	2.275	3.082	4.996	0.525
Panel e: Services							Panel e: Services						
ATE-AIPW High	-0.572***	-2.101***	-2.699***	-2.802***	-3.488***	-3.290***	ATE-AIPW High	-0.275***	-1.295***	-1.959***	-2.199***	-2.398***	-2.438***
	(0.091)	(0.157)	(0.224)	(0.297)	(0.380)	(0.500)		(0.105)	(0.143)	(0.184)	(0.221)	(0.264)	(0.302)
ATE-AIPW Low	-0.784***	-1.412***	-1.575***	-1.402***	-2.231***	-3.089***	ATE-AIPW Low	-0.424***	-0.612***	-1.062***	-1.244***	-1.853***	-2.107***
	(0.096)	(0.144)	(0.197)	(0.274)	(0.350)	(0.415)		(0.095)	(0.135)	(0.170)	(0.215)	(0.255)	(0.291)
P-value High=Low	0.005	0.000	0.000	0.000	0.000	0.545	P-value High=Low	0.141	0.000	0.000	0.000	0.000	0.058
Avg.(trade) in countries above cutoff	0.916	1.922	3.021	4.096	5.175	6.310	Avg.(trade) in countries above cutoff	0.736	1.542	2.423	3.308	4.174	5.045
Avg.(trade) in countries below cutoff	0.541	0.905	1.373	2.059	2.639	3.308	Avg.(trade) in countries below cutoff	0.277	0.514	0.674	1.146	1.548	2.011
Observations	700	700	700	700	700	700	Observations	700	700	700	700	700	700
# of Crises	18	18	18	18	18	18	# of Crises	18	18	18	18	18	18
Cutoff of channel variable, median	7.984	7.984	7.984	7.984	7.984	7.984	Cutoff of channel variable, median	7.984	7.984	7.984	7.984	7.984	7.984
Notes: Robust standard arrors clustered	at the cour	try laval in	naranthaca	c*n<01	** n < 0.05	*** n < 0.01	IBW actimates. The dependent variables ar	a 100 timar	the cumule	tivo chongo	of agricultur	al mining	

Notes: Robust standard errors clustered at the country-level in parentheses.\* p < 0.05, \*\*\* p < 0.01. IPW estimates. The dependent variables are 100 times the cumulative change of agricultural, mining, manufacturing, services, and total exports and imports relative to the year prior to the onset of the crisis for years 1-5 after the onset of the crisis, scaled pre-crisis GDP. Accumulated costs over five years. Observations in the treated and control groups are weighted by the propensity scores predicted in the treatment model. Maximum weights truncated at 10.

Table A.18c: Channels, Cumulative trade losses over five years after currency crises with higher and lower trading partners' growth

Panel	I: Exports	s (% of pre	-crisis GD	P)			Pane	l II: Impor	ts (% of pr	e-crisis GD	P)		
	(1)	(2)	(3)	(4)	(5)	(6)		(1)	(2)	(3)	(4)	(5)	(6)
	h=0	h=1	h=2	h=3	h=4	h=5		h=0	h=1	h=2	h=3	h=4	h=5
	Panel C:	Currency	crises					Panel C	Currency	crises			
Panel a: Total							Panel a: Total						
ATE-AIPW High	-1.364***	-2.490***	-2.713***	-2.881***	-4.422***	-3.300***	ATE-AIPW High	-5.765***	-7.089***	-8.831***	-9.538***	-9.656***	-5.608***
	(0.269)	(0.412)	(0.540)	(0.706)	(0.838)	(1.054)		(0.422)	(0.580)	(0.807)	(0.994)	(1.207)	(1.532)
ATE-AIPW Low	-2.102***	-3.787***	-5.713***	-7.148***	-8.791***	-11.604***	ATE-AIPW Low	-4.109***	-6.614***	-7.946***	-8.878***	-9.760***	-11.549***
	(0.267)	(0.393)	(0.587)	(0.698)	(0.823)	(0.956)		(0.382)	(0.538)	(0.749)	(0.951)	(1.176)	(1.365)
P-value High=Low	0.000	0.000	0.000	0.000	0.000	0.000	P-value High=Low	0.000	0.171	0.059	0.208	0.865	0.000
Avg.(trade) in countries above cutoff	3.443	7.127	11.100	15.111	18.992	23.077	Avg.(trade) in countries above cutoff	4.130	8.756	13.541	18.397	23.253	28.205
Avg.(trade) in countries below cutoff	1.297	2.162	3.353	5.326	6.735	8.418	Avg.(trade) in countries below cutoff	1.498	1.947	2.607	4.545	6.128	7.998
Panel b: Agriculture							Panel b: Agriculture						
ATE-AIPW High	-0.266***	-0.516***	-0.697***	-0.707***	-0.538***	-0.153	ATE-AIPW High	-0.467***	-0.566***	-0.829***	-1.061***	-0.886***	-0.451***
	(0.056)	(0.088)	(0.115)	(0.154)	(0.182)	(0.257)		(0.085)	(0.076)	(0.099)	(0.112)	(0.136)	(0.167)
ATE-AIPW Low	0.516***	0.296***	1.023***	0.686***	0.531***	0.355	ATE-AIPW Low	-0.455***	-0.584***	-0.788***	-0.823***	-0.870***	-0.993***
	(0.069)	(0.102)	(0.209)	(0.209)	(0.188)	(0.229)		(0.080)	(0.069)	(0.094)	(0.105)	(0.134)	(0.149)
P-value High=Low	0.000	0.000	0.000	0.000	0.000	0.024	P-value High=Low	0.727	0.691	0.385	0.000	0.804	0.000
Avg.(trade) in countries above cutoff	0.448	0.923	1.411	1.916	2.395	2.980	Avg.(trade) in countries above cutoff	0.359	0.780	1.207	1.655	2.128	2.609
Avg.(trade) in countries below cutoff	0.128	0.231	0.534	0.835	1.071	1.367	Avg.(trade) in countries below cutoff	0.217	0.301	0.433	0.704	0.854	1.113
Panel c. Mining							Panel c. Mining						
ATE-AIPW High	0.037	-0 379**	-0.005	-0.034	-1 040***	-0 792**	ATE-AIPW High	-1 004***	-1 233***	-1 988***	-2 078***	-2 468***	-1 543***
in the second second	(0.143)	(0.163)	(0.234)	(0.283)	(0.316)	(0.392)	interim () inga	(0.084)	(0.133)	(0.190)	(0.228)	(0.272)	(0.352)
ATE-AIPW Low	-1.004***	-1.810***	-2.992***	-3.482***	-4.174***	-4.685***	ATE-AIPW Low	-0.658***	-1.200***	-1.803***	-2.331***	-2.760***	-3.008***
	(0.156)	(0.169)	(0.232)	(0.264)	(0.315)	(0.362)		(0.087)	(0.130)	(0.158)	(0.194)	(0.231)	(0.264)
P-value High=Low	0.000	0.000	0.000	0.000	0.000	0.000	P-value High=Low	0.000	0.675	0.183	0.087	0.064	0.000
Avg.(trade) in countries above cutoff	0.690	1.402	2.152	2.978	3,757	4.498	Avg.(trade) in countries above cutoff	0.705	1.524	2.394	3.271	4.058	4.866
Avg.(trade) in countries below cutoff	-0.075	-0.146	-0.049	-0.025	-0.195	-0.276	Avg.(trade) in countries below cutoff	0.158	0.148	0.167	0.368	0.499	0.493
Panel d: Manufacturing							Panel d: Manufacturing						
ATE-AIPW High	-0.551***	-1.110***	-1.571***	-1.698***	-2.124***	-1.582***	ATE-AIPW High	-3.478***	-4.286***	-4.923***	-5.114***	-5.130***	-2.706***
	(0.134)	(0.233)	(0.307)	(0.409)	(0.497)	(0.591)		(0.252)	(0.345)	(0.465)	(0.588)	(0.721)	(0.894)
ATE-AIPW Low	-0.824***	-1.503***	-2.657***	-3.251***	-3.952***	-5.156***	ATE-AIPW Low	-2.260***	-3.615***	-3.973***	-4.395***	-4.776***	-5.786***
	(0.127)	(0.210)	(0.283)	(0.366)	(0.459)	(0.550)		(0.238)	(0.341)	(0.457)	(0.573)	(0.707)	(0.823)
P-value High=Low	0.000	0.002	0.000	0.000	0.000	0.000	P-value High=Low	0.000	0.003	0.000	0.017	0.310	0.000
Avg.(trade) in countries above cutoff	1.420	2.970	4.631	6.245	7.832	9.484	Avg.(trade) in countries above cutoff	2.379	4.982	7.641	10.281	12.994	15.786
Avg.(trade) in countries below cutoff	0.724	1.207	1.648	2.709	3.490	4.354	Avg.(trade) in countries below cutoff	0.831	1.076	1.491	2.638	3.750	5.036
Panel e: Services							Panel e: Services						
ATE-AIPW High	-0.583***	-0.485***	-0.441**	-0.442*	-0.720**	-0.772**	ATE-AIPW High	-0.816***	-1.003***	-1.091***	-1.284***	-1.173***	-0.908***
	(0.085)	(0.145)	(0.192)	(0.265)	(0.309)	(0.385)		(0.078)	(0.122)	(0.172)	(0.203)	(0.242)	(0.290)
ATE-AIPW Low	-0.791***	-0.770***	-1.087***	-1.101***	-1.197***	-2.117***	ATE-AIPW Low	-0.735***	-1.216***	-1.383***	-1.329***	-1.354***	-1.761***
	(0.072)	(0.119)	(0.180)	(0.251)	(0.295)	(0.338)		(0.064)	(0.109)	(0.155)	(0.201)	(0.240)	(0.267)
P-value High=Low	0.000	0.004	0.000	0.001	0.046	0.000	P-value High=Low	0.135	0.005	0.007	0.738	0.292	0.000
Avg.(trade) in countries above cutoff	0.886	1.833	2.905	3.972	5.008	6.116	Avg.(trade) in countries above cutoff	0.687	1.469	2.299	3.190	4.073	4.944
Avg.(trade) in countries below cutoff	0.521	0.870	1.220	1.807	2.369	2.973	Avg.(trade) in countries below cutoff	0.292	0.421	0.517	0.835	1.026	1.356
Observations	701	701	701	701	701	701	Observations	701	701	701	701	701	701
# of Crises	18	18	18	18	18	18	# of Crises	18	18	18	18	18	18
Cutoff of channel variable, median	7.295	7.295	7.295	/.295	1.295	7.295	Cutoff of channel variable, median	7.295	7.295	7.295	7.295	7.295	7.295

Notes: Robust standard errors clustered at the country-level in parentheses.\* p < 0.05, \*\*\* p < 0.01. IPW estimates. The dependent variables are 100 times the cumulative change of agricultural, mining, manufacturing, services, and total exports and imports relative to the year prior to the onset of the crisis for years 1-5 after the onset of the crisis, scaled pre-crisis GDP. Accumulated costs over five years. Observations in the treated and control groups are weighted by the propensity scores predicted in the treatment model. Maximum weights truncated at 10.

Table A.19a: Channels, Cumulative trade losses over five years after debt crises with higher and lower evolution of financial development

	(2) (2)		
(1) (2) (3) (4) (5) (6) (1)	(2) (3)	(4) (5)	(6)
h=0 h=1 h=2 h=3 h=4 h=5 h=0	h=1 h=2	h=3 h=4	h=5
Panel A: Debt crises Panel A:	: Debt crises		
Panel a: Total Panel a: Total			
ATE-AIPW High -1.330*** -3.509*** -4.022*** -6.209*** -5.852*** -4.147*** ATE-AIPW High -3.726*** -6	6.091*** -5.929***	-6.136*** -6.831	-3.282
$(0.330)  (0.434)  (0.602)  (0.849)  (1.066)  (1.356) \tag{0.464}  (0.464)  (0.46$	(0.644) (0.962)	(1.227) (1.52	3) (2.021)
ATE-AIPW Low -1.688*** -1.924*** -3.107*** -6.051*** -6.711*** -7.029*** ATE-AIPW Low -2.995*** -4	4.646*** -5.097***	-6.569*** -7.457	** -11.367***
(0.277) (0.402) (0.555) (0.699) (0.874) (1.057) (0.378) (	(0.598) (0.863)	(1.057) (1.30)	2) (1.550)
P-value High=Low 0.153 0.000 0.001 0.753 0.179 0.001 P-value High=Low 0.013	0.000 0.098	0.533 0.47	0.000
Avg. (trade) in countries above cutoff $3.130$ $6.5/6$ $10.282$ $14.141$ $1/8.39$ $21.941$ Avg. (trade) in countries above cutoff $3.934$	8.125 12.488	17.125 21.42	3 26.126
Avg.(trade) in countries below cutoff 2.338 4.155 6.369 8.905 10./16 12.419 Avg.(trade) in countries below cutoff 2.346	4.351 6.563	9.195 12.34	8 15.096
Danal be Aminultume			
Transport         Optimizer         Participation         Participation         Optimizer	0.407*** 0.642***	0.904*** 1.026	** 0.602***
(0.102) (0.132) (0.170) (0.28) (0.38) (0.38) (0.38) (0.38)	(0.081) (0.128)	(0.134) (0.15)	0.003
ATE-AIPWLow 0.665*** 0.227** 0.418*** 0.686*** 0.738*** 0.243 ATE-AIPWLow 0.018 0.	0.657*** -0.329***	-0.681*** -0.827	*** =1 004***
(0.110) (0.095) (0.139) (0.163) (0.197) (0.215) (0.064) (0.064) (0.064)	(0.079) (0.120)	(0.123) (0.14	(0.174)
P-value High=Low 0.000 0.000 0.000 0.000 0.000 P-value High=Low 0.000	0.000 0.000	0.043 0.00	2 0.000
Ave.(trade) in countries above cutoff 0.400 0.822 1.319 1.783 2.225 2.779 Ave.(trade) in countries above cutoff 0.355	0.720 1.117	1.561 1.97	2.440
Avg.(trade) in countries below cutoff 0.312 0.616 0.932 1.420 1.786 2.220 Avg.(trade) in countries below cutoff 0.249	0.527 0.781	1.059 1.42	1.709
Panel c: Mining Panel e: Mining			
ATE-AIPW High 0.113 -0.273 -0.338 -1.314*** -0.070 1.207** ATE-AIPW High -0.281*** -0	0.750*** -0.659***	-0.967*** -1.037	** -0.070
(0.209) (0.223) (0.256) (0.350) (0.411) (0.558) (0.091) (	(0.144) (0.199)	(0.282) (0.35	9) (0.466)
ATE-AIPW Low -0.049 -0.118 -0.646*** -1.597*** -2.032*** -2.266*** ATE-AIPW Low -0.644***	-0.007 -0.693***	-1.345*** -1.511*	-2.662***
(0.107) (0.155) (0.215) (0.265) (0.324) (0.384) (0.087) (0.087)	(0.168) (0.213)	(0.263) (0.32	3) (0.380)
P-value High=Low         0.372         0.356         0.037         0.225         0.000         0.000         P-value High=Low         0.000	0.000 0.810	0.038 0.00	0.000
Avg.(trade) in countries above cutoff         0.577         1.166         1.863         2.598         3.304         4.039         Avg.(trade) in countries above cutoff         0.662	1.394 2.175	2.972 3.64	9 4.457
Avg.(trade) in countries below cutoff         0.297         0.633         0.917         1.266         1.323         1.269         Avg.(trade) in countries below cutoff         0.334	0.658 1.041	1.554 1.99	2.018
Panel d: Manufacturing Panel d: Manufacturing			
ATE-AIPW High -0.958*** -2.107*** -2.691*** -3.832*** -4.828*** -5.195*** ATE-AIPW High -2.031*** -3	3.310*** -2.649***	-2.357*** -2.630	-0.742
(0.136) $(0.227)$ $(0.315)$ $(0.407)$ $(0.512)$ $(0.619)$ $(0.283)$ $(0.283)$ $(0.283)$	(0.392) (0.578)	(0./48) (0.95	4) (1.291)
<b>ATE-AIPW Low</b> $-0./80^{\text{even}} - 1./14^{\text{even}} - 3.50^{\text{even}} + 4.01^{\text{even}}$ <b>ATE-AIPW Low</b> $-1.988^{\text{even}} - 3.50^{\text{even}} + 4.01^{\text{even}}$	3.492*** -3.546***	-3.969*** -4.441	-6.536***
(0.142) (0.233) (0.316) (0.403) (0.505) (0.508) (0.252) (0.008) (0.252	0.359) (0.509)	(0.610) (0.74	(0.880)
1 - table lingle-Low 0.000 0.000 0.000 0.000 1.000 1.000 0.000 1.000 0.0000 0.000 0.000 0.000 0.0000 0.000 0.000 0.00	4.671 7.000	0.610 12.04	9 14 642
Avg. ( $tade$ ) in count its above that 1.501 2.667 4.572 0.009 1.542 2.202 Avg. ( $tade$ ) in count its above that 2.267 4.572 0.009 1.542 7.202 Avg. ( $tade$ ) in count its above that 1.201 2.667 4.572 0.009 1.542 7.202 Avg. ( $tade$ ) in count its above that 1.201 2.667 4.572 0.009 1.542 7.202 Avg. ( $tade$ ) in count its above that 1.201 2.667 4.572 0.009 1.542 7.202 Avg. ( $tade$ ) in count its above that 1.201 2.667 4.572 0.009 1.542 7.202 Avg. ( $tade$ ) in count its above that 1.201 2.667 4.572 0.009 1.542 7.202 Avg. ( $tade$ ) in count its above that 1.201 2.667 4.572 0.009 1.542 7.202 Avg. ( $tade$ ) in count its above that 1.201 2.667 4.572 0.009 1.542 7.202 Avg. ( $tade$ ) in count its above that 1.201 2.667 4.572 0.009 1.542 7.202 Avg. ( $tade$ ) in count its above that 1.201 2.667 4.572 0.009 1.542 7.202 Avg. ( $tade$ ) in count its above that 1.201 2.667 4.572 0.009 1.542 7.202 Avg. ( $tade$ ) in count its above that 1.201 2.667 4.572 0.009 1.542 7.202 Avg. ( $tade$ ) in count its above that 1.201 2.667 4.572 0.009 1.542 7.202 Avg. ( $tade$ ) in count its above that 1.201 2.667 4.572 0.009 1.542 7.202 Avg. ( $tade$ ) in count its above that 1.201 2.667 4.572 0.009 1.542 7.202 Avg. ( $tade$ ) in count its above that 1.201 2.667 4.572 0.009 1.542 7.202 Avg. ( $tade$ ) in count its above that 1.201 2.667 4.572 0.009 1.542 7.572 0.572	2 255 3 521	4966 683	8 14.042
Argentade) in counting octor culou (2.25) 1.354 2.301 3.300 4.305 3.237 Argentade) in counting octor culou 1.245	2.235 5.321	4.700 0.05	0.024
Panel e: Services Panel e: Services			-
ATE-AIPW Hieh -0.530*** -1.391*** -1.735*** -2.259*** -2.629*** -3.480*** ATE-AIPW Hieh -0.976*** -1	1.534*** -1.979***	-2.009*** -2.127	** -1.867***
(0.080) (0.135) (0.196) (0.250) (0.294) (0.353) (0.112) (	(0.149) (0.201)	(0.229) (0.26	5) (0.301)
ATE-AIPW Low -0.273*** -0.798*** -0.329* -0.639*** -0.379 -0.503 ATE-AIPW Low -0.382*** -0	0.490*** -0.530***	-0.574*** -0.679	** -1.164***
(0.078) (0.135) (0.183) (0.237) (0.278) (0.334) (0.085) (	(0.119) (0.157)	(0.195) (0.22)	7) (0.267)
P-value High=Low 0.000 0.000 0.000 0.000 0.000 0.000 0.000 P-value High=Low 0.000	0.000 0.000	0.000 0.00	0.000
Avg. (trade) in countries above cutoff 0.812 1.698 2.708 3.752 4.768 5.921 Avg. (trade) in countries above cutoff 0.631	1.339 2.107	2.973 3.75	6 4.587
Avg.(trade) in countries below cutoff 0.794 1.373 1.959 2.632 3.224 3.673 Avg.(trade) in countries below cutoff 0.517	0.912 1.221	1.616 2.09	5 2.545
Observations         702 <t< th=""><th>702 702</th><th>702 702</th><th>702</th></t<>	702 702	702 702	702
# of Crises         18         18         18         18         18         # of Crises         18	18 18	18 18	18
Cutoff of channel variable, median         -0.008         -0.008         -0.008         -0.008         -0.008         Cutoff of channel variable, median         -0.008	-0.008 -0.008	-0.008 -0.00	8 -0.008

Notes: Robust standard errors clustered at the country-level in parentheses.\* p < 0.1, \*\* p < 0.05, \*\*\* p < 0.01. IPW estimates. The dependent variables are 100 times the cumulative change of agricultural, mining, manufacturing, services, and total exports and imports relative to the year prior to the onset of the crisis for years 1-5 after the onset of the crisis, scaled pre-crisis GDP. Accumulated costs over five years. Observations in the treated and control groups are weighted by the propensity scores predicted in the treatment model. Maximum weights truncated at 10.

Table A.19b: Channels, Cumulative trade losses over five years after banking crises with higher and lower evolution of financial development

Panel	I: Exports	s (% of pre	-crisis GD	P)			Pane	l II: Impor	ts (% of pr	e-crisis GD	P)		
	(1)	(2)	(3)	(4)	(5)	(6)		(1)	(2)	(3)	(4)	(5)	(6)
	h=0	h=1	h=2	h=3	h=4	h=5		h=0	h=1	h=2	h=3	h=4	h=5
	Panel B:	: Banking o	rises					Panel B	: Banking	crises			
Panel a: Total							Panel a: Total						
ATE-AIPW High	-2.306***	-5.461***	-6.304***	-5.320***	-5.970***	-5.898***	ATE-AIPW High	-5.496***	-9.162***	-9.787***	-8.626***	-7.680***	-8.499***
	(0.278)	(0.473)	(0.554)	(0.696)	(0.878)	(1.082)		(0.422)	(0.727)	(0.851)	(1.001)	(1.266)	(1.521)
ATE-AIPW Low	-0.014	-5.316***	-5.057***	-5.012***	-9.209***	-9.637***	ATE-AIPW Low	-0.131	-8.313***	-9.721***	-10.532***	-14.917***	-16.622***
	(0.305)	(0.475)	(0.567)	(0.701)	(0.858)	(1.059)		(0.398)	(0.695)	(0.837)	(0.946)	(1.202)	(1.469)
P-value High=Low	0.000	0.535	0.000	0.409	0.000	0.000	P-value High=Low	0.000	0.073	0.887	0.000	0.000	0.000
Avg.(trade) in countries above cutoff	3.591	7.423	11.452	15.652	19.711	24.007	Avg.(trade) in countries above cutoff	4.294	9.036	13.876	18.734	23.349	28.106
Avg.(trade) in countries below cutoff	1.895	3.640	5.876	8.340	10.264	12.566	Avg.(trade) in countries below cutoff	2.345	4.250	6.480	9.508	12.560	15.974
							<b>B W A B</b>						
Panel b: Agriculture	0.001000	0.000	0 10 1000	0 (00444	0.544444	0.0000000	Panel b: Agriculture	0.52 (0.00	0.5500000	0.00000000	0.005444	0.051000	1.0000000
ATE-AIPW High	-0.221***	-0.6/4***	-0.696***	-0.689***	-0.764***	-0.883***	ATE-AIPW High	-0.724***	-0.775***	-0.892***	-0.93/***	-0.854***	-1.085***
	(0.063)	(0.087)	(0.119)	(0.148)	(0.170)	(0.204)		(0.056)	(0.087)	(0.102)	(0.112)	(0.145)	(0.167)
ATE-AIPW LOW	(0.050)	-0.185***	-0.404***	-0.626***	-0.822***	-1.433****	ATE-AIPW LOW	0.048	-0.246**	-0.348****	-0.709****	-1.383****	-1.629***
D solue High-L on	(0.058)	(0.086)	(0.112)	(0.132)	(0.160)	(0.185)	D malue High-L our	(0.061)	(0.098)	(0.110)	(0.115)	(0.132)	(0.162)
r-value righ=Low	0.000	0.000	1.279	1.925	0.049	0.000	F-value High=Low	0.000	0.000	1.246	1.727	0.000	0.000
Avg.(trade) in countries below outoff	0.429	0.890	1.378	1.655	2.334	2.927	Avg.(trade) in countries below outoff	0.374	0.795	0.699	0.052	1 202	2.058
Avg.(trade) in countries below cuton	0.290	0.580	0.980	1.472	1.709	2.162	Avg.(trade) in countries below cuton	0.237	0.477	0.000	0.952	1.293	1.051
Panel c: Mining							Panel c: Mining						
ATE-AIPW High	-0.274	-1.332***	-1.537***	-1.705***	-2.237***	-2.542***	ATE-AIPW High	-0.976***	-1.524***	-1.861***	-2.005***	-2.203***	-2.723***
	(0.167)	(0.223)	(0.240)	(0.292)	(0.358)	(0.428)		(0.094)	(0.146)	(0.169)	(0.199)	(0.252)	(0.308)
ATE-AIPW Low	-0.269*	-0.902***	-0.794***	-1.079***	-2.342***	-0.802*	ATE-AIPW Low	-0.204**	-1.578***	-1.605***	-1.463***	-2.098***	-2.636***
	(0.143)	(0.226)	(0.258)	(0.282)	(0.327)	(0.461)		(0.101)	(0.151)	(0.169)	(0.206)	(0.250)	(0.300)
P-value High=Low	0.953	0.000	0.000	0.000	0.492	0.000	P-value High=Low	0.000	0.398	0.000	0.000	0.318	0.469
Avg.(trade) in countries above cutoff	0.671	1.270	2.107	2.972	3.751	4.520	Avg.(trade) in countries above cutoff	0.690	1.483	2.341	3.161	3.903	4.751
Avg.(trade) in countries below cutoff	0.244	0.662	0.864	1.139	1.325	1.519	Avg.(trade) in countries below cutoff	0.412	0.791	1.197	1.779	2.202	2.460
ATE A IDW High	0.700888	1 461***	1.067***	1.205***	0.0658	1.065*	ATE AIDW High	1 015888	5 4028*8	5 241aaa	1 256***	2 207888	2.075***
ATE-AIF W High	-0.709+++	(0.220)	-1.907***	-1.293****	-0.903+	-1.063*	ATE-AIF W High	-2.825+++	-5.402+++	-5.541++++	-4.230+++	-2.897++++	-5.0/5****
ATE ADVI on	(0.120)	(0.229)	(0.507)	(0.417)	(0.550)	(0.624)	ATE ADM L on	0.232)	(0.445)	(0.319) = 006***	(0.000)	(0.774) 9 506888	(0.928)
ATE-AIF W LOW	(0.160)	-2.218****	-1.237***	-0.343	-2.244	-2.508++++	ATE-AIF W LOW	-0.527	(0.417)	-3.880****	-0.055****	-8.390	(0.892)
P value High=Low	0.000	0.000	0.006	0.026	0.000	0.008	P voluo High-Low	0.000	0.751	0.084	0.000	0.000	0.000
Avg (trade) in countries above cutoff	1 510	3 256	4 845	6 576	8 250	9.971	Avg (trade) in countries above cutoff	2 530	5 233	7 800	10.521	13 122	15 688
Avg.(trade) in countries below cutoff	0.820	1.430	2 /0/	3 553	4 375	5.467	Avg.(trade) in countries below cutoff	1 232	2 228	3 517	5 222	7.013	0.286
rightrade) in countries below cuton	0.02)	1.150	2.171	0.000	1.575	5.107	-rigitilate) in countries below cuton	1.202	2.220	5.517	0.000	1.015	7.200
Panel e: Services							Panel e: Services						
ATE-AIPW High	-1.101***	-1.993***	-2.104***	-1.631***	-2.003***	-1.408***	ATE-AIPW High	-0.971***	-1.463***	-1.693***	-1.428***	-1.726***	-1.619***
0	(0.092)	(0.144)	(0.194)	(0.271)	(0.336)	(0.460)	0	(0.087)	(0.134)	(0.167)	(0.203)	(0.237)	(0.271)
ATE-AIPW Low	-0.267***	-2.011***	-2.602***	-2.764***	-3.802***	-5.093***	ATE-AIPW Low	0.353***	-0.984***	-1.882***	-2.327***	-2.841***	-3.232***
	(0.090)	(0.157)	(0.224)	(0.288)	(0.353)	(0.412)		(0.089)	(0.115)	(0.167)	(0.198)	(0.240)	(0.281)
P-value High=Low	0.000	0.870	0.001	0.000	0.000	0.000	P-value High=Low	0.000	0.000	0.121	0.000	0.000	0.000
Avg.(trade) in countries above cutoff	0.972	2.007	3.121	4.269	5.367	6.589	Avg.(trade) in countries above cutoff	0.699	1.527	2.390	3.314	4.156	5.029
Avg.(trade) in countries below cutoff	0.526	0.968	1.538	2.177	2.795	3.397	Avg.(trade) in countries below cutoff	0.444	0.754	1.078	1.555	2.052	2.577
Observations	705	705	705	705	705	705	Observations	705	705	705	705	705	705
# of Crises	17	17	17	17	17	17	# of Crises	17	17	17	17	17	17
Cutoff of channel variable, median	0.006	0.006	0.006	0.006	0.006	0.006	Cutoff of channel variable, median	0.006	0.006	0.006	0.006	0.006	0.006
Notes: Robust standard arrors alustared	at the cour	atra laval in	neronthase	$r \approx n < 0.1$	** n < 0.05	*** n < 0.01	IPW actimates. The dependent veriables or	a 100 timor	the cumule	tivo chongo	of agricultur	al mining	

Notes: Robust standard errors clustered at the country-level in parentheess\* p < 0.1, \*\* p < 0.05, \*\*\* p < 0.01. PW estimates. The dependent variables are 100 times the cumulative change of agricultural, mining, manufacturing, services, and total exports and imports relative to the year prior to the onset of the crisis for years 1-5 after the onset of the crisis, scaled pre-crisis GDP. Accumulated costs over five years. Observations in the treated and control groups are weighted by the propensity scores predicted in the treatment model. Maximum weights truncated at 10.

Table A.19c: Channels, Cumulative trade losses over five years after currency crises with higher and lower evolution of financial development

Panel	I: Export	s (% of pre	-crisis GD	P)			Pane	l II: Impor	ts (% of pr	e-crisis GD	P)		
	(1)	(2)	(3)	(4)	(5)	(6)		(1)	(2)	(3)	(4)	(5)	(6)
	h=0	h=1	h=2	h=3	h=4	h=5		h=0	h=1	h=2	h=3	h=4	h=5
	Panel C:	Currency	crises					Panel C	: Currency	crises			
Panel a: Total							Panel a: Total						
ATE-AIPW High	-1.746***	-2.530***	-3.852***	-4.669***	-6.155***	-7.517***	ATE-AIPW High	-4.780***	-6.537***	-7.660***	-8.646***	-9.468***	-8.439***
	(0.286)	(0.407)	(0.583)	(0.755)	(0.864)	(1.100)		(0.413)	(0.546)	(0.780)	(1.015)	(1.236)	(1.578)
ATE-AIPW Low	-3.067***	-4.724***	-4.861***	-5.566***	-7.669***	-9.094***	ATE-AIPW Low	-6.698***	-8.322***	-9.583***	-10.429***	-10.760***	-11.804***
	(0.384)	(0.426)	(0.568)	(0.714)	(0.830)	(1.004)		(0.523)	(0.625)	(0.839)	(1.014)	(1.222)	(1.454)
P-value High=Low	0.000	0.000	0.010	0.054	0.004	0.039	P-value High=Low	0.000	0.000	0.000	0.001	0.049	0.002
Avg.(trade) in countries above cutoff	3.157	6.498	10.061	13.818	17.344	21.302	Avg.(trade) in countries above cutoff	3.949	8.017	12.196	16.687	20.890	25.421
Avg.(trade) in countries below cutoff	2.126	3.955	6.467	9.158	11.308	13.106	Avg.(trade) in countries below cutoff	1.922	3.976	6.522	9.347	12.662	15.733
Panel b: Agriculture	0.000	0.041	0.202*	0.120	0.204	0.400*	Panel b: Agriculture	0.522844	0.400***	0.5/2***	0.017***	0.0428**	0.700***
ATE-AIPW High	-0.009	-0.041	0.393*	0.130	-0.294	-0.498*	ATE-AIPW High	-0.533****	-0.498****	-0.562***	-0.91/***	-0.84.5****	-0.708***
	(0.059)	(0.106)	(0.216)	(0.227)	(0.217)	(0.272)		(0.083)	(0.0/4)	(0.101)	(0.112)	(0.140)	(0.172)
ATE-AIPW LOW	0.060	-0.4/9****	-0.292**	-0.290*	-0.008	0.054	ATE-AIPW LOW	-0.502***	-0.001****	-0.890***	-0.909****	-0.749***	-0.821***
Barley IP-1 I and	(0.076)	(0.090)	(0.120)	(0.148)	(0.170)	(0.225)	Barley II'r La Iar	(0.082)	(0.077)	(0.105)	(0.114)	(0.158)	(0.153)
P-value High=Low	0.282	0.000	1.212	1.772	0.087	0.016	P-value Hign=Low	0.393	0.029	1.105	0.874	0.155	0.351
Avg.(trade) in countries below outoff	0.400	0.621	1.313	1.775	1.706	2.755	Avg.(trade) in countries below outoff	0.558	0.718	0.756	1.550	1.954	2.364
Avg.(trade) in countries below cuton	0.290	0.373	0.808	1.365	1.790	2.290	Avg.(trade) in countries below cuton	0.211	0.493	0.730	1.000	1.437	1.792
Panel c: Mining							Panel c: Mining						
ATE-AIPW High	-0.401**	-0.785***	-1.102***	-1.406***	-1.856***	-2.017***	ATE-AIPW High	-0.695***	-0.984***	-1.313***	-1.605***	-1.959***	-1.679***
-	(0.180)	(0.153)	(0.210)	(0.268)	(0.321)	(0.395)	-	(0.078)	(0.128)	(0.162)	(0.218)	(0.255)	(0.352)
ATE-AIPW Low	-0.417**	-1.181***	-1.408***	-1.490***	-2.713***	-2.721***	ATE-AIPW Low	-1.511***	-1.807***	-2.606***	-3.114***	-3.725***	-4.008***
	(0.198)	(0.178)	(0.265)	(0.293)	(0.324)	(0.377)		(0.121)	(0.140)	(0.199)	(0.220)	(0.256)	(0.290)
P-value High=Low	0.857	0.000	0.094	0.625	0.000	0.001	P-value High=Low	0.000	0.000	0.000	0.000	0.000	0.000
Avg.(trade) in countries above cutoff	0.565	1.149	1.808	2.503	3.167	3.876	Avg.(trade) in countries above cutoff	0.693	1.392	2.120	2.890	3.566	4.292
Avg.(trade) in countries below cutoff	0.289	0.590	0.946	1.385	1.483	1.366	Avg.(trade) in countries below cutoff	0.120	0.499	1.027	1.596	1.989	2.200
Panel d: Manufacturing	0 55 1000	1.021000	1.055000			2 105000	Panel d: Manufacturing	0.505044	1150000	1 < 100.00	1.02.1000	5 00 1000	
ATE-AIPW High	-0.554****	-1.034****	-1.955****	-2.285****	-2.96/****	-3.105****	ATE-AIPW High	-2.785****	-4.159****	-4.640***	-4.924***	-5.384****	-4.596***
	(0.138)	(0.233)	(0.308)	(0.416)	(0.502)	(0.601)		(0.250)	(0.326)	(0.459)	(0.599)	(0.734)	(0.910)
ATE-AIPW LOW	-1.792***	-2.201****	-2.033****	-3.120***	-3./5/***	-4.651****	ATE-AIPW LOW	-3./39***	-4.501****	-4.558****	-4.835****	-4.9/1****	-5.450***
Barrier III're I. I	(0.213)	(0.250)	(0.303)	(0.379)	(0.473)	(0.581)	B	(0.326)	(0.402)	(0.507)	(0.000)	(0.737)	(0.889)
r-value rigi=Low	1.255	0.000	4.280	0.000 5.969	7.254	0.000	r-value rigit=Low	0.000	4.590	6.022	0.782	0.290	14 202
Avg.(trade) in countries above cutor	1.355	2.852	4.289	2.665	1.554	8.946	Avg.(trade) in countries above cutor	2.255	4.582	0.922	9.375	7.025	14.293
Avg.(trade) in countries below cuton	0.800	1.461	2.000	5.005	4.301	5.505	Avg.(trade) in countries below cuton	1.149	2.105	5.459	4.994	7.055	9.000
Panel e: Services							Panel e: Services						
ATE-AIPW High	-0 782***	-0.671***	-1 188***	-1 108***	-1 037***	-1 897***	ATE-AIPW High	-0 766***	-0.896***	-1 145***	-1 200***	-1 282***	-1 456***
in the second second	(0.083)	(0 144)	(0.190)	(0.282)	(0.322)	(0.395)		(0.077)	(0.118)	(0.174)	(0.221)	(0.259)	(0.293)
ATE-AIPW Low	-0.919***	-0.802***	-0 528***	-0.667**	-1 190***	-1 776***	ATE-AIPW Low	-0 945***	-1 413***	-1 549***	-1 572***	-1 315***	-1 525***
	(0.085)	(0.132)	(0.200)	(0.305)	(0.329)	(0.382)		(0.081)	(0.122)	(0.179)	(0.228)	(0.265)	(0.300)
P-value High=Low	0.035	0.201	0.000	0.037	0.536	0.708	P-value High=Low	0.003	0.000	0.000	0.006	0.850	0.773
Avg.(trade) in countries above cutoff	0.837	1.695	2.650	3.674	4.622	5.746	Avg.(trade) in countries above cutoff	0.642	1.324	2.048	2.885	3.652	4.452
Avg.(trade) in countries below cutoff	0.681	1.311	2.047	2.726	3.527	3.944	Avg.(trade) in countries below cutoff	0.442	0.878	1.279	1.698	2.182	2.682
Observations	705	705	705	705	705	705	Observations	705	705	705	705	705	705
# of Crises	18	18	18	18	18	18	# of Crises	18	18	18	18	18	18
Cutoff of channel variable, median	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	Cutoff of channel variable, median	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015
The second secon				* 04			The second	100.1					

Notes: Robust standard errors clustered at the country-level in parentheses.\* p < 0.1, \*\* p < 0.05, \*\*\* p < 0.01 IPW estimates. The dependent variables are 100 inset the cumulative change of agricultural, mining, manufacturing, services, and total exports and imports relative to the year prior to the onset of the crisis for years 1-5 after the onset of the crisis, scaled pre-crisis GDP. Accumulated costs over five years. Observations in the treated and control groups are weighted by the propensity scores predicted in the treatment model. Maximum weights truncated at 10.

Table A.20a: Channels, Cumulative trade losses over five years after debt crises with higher and lower evolution of gross capital inflows

Panel	I: Exports	s (% of pre	-crisis GD	P)			Pane	l II: Impor	ts (% of pr	e-crisis GD	P)		
	(1)	(2)	(3)	(4)	(5)	(6)		(1)	(2)	(3)	(4)	(5)	(6)
	h=0	h=1	h=2	h=3	h=4	h=5		h=0	h=1	h=2	h=3	h=4	h=5
	Panel	A: Debt cri	ises					Panel	A: Debt cr	rises			
Panel a: Total							Panel a: Total						
ATE-AIPW High	-0.284	-1.984***	-2.188***	-4.005***	-6.220***	-5.370***	ATE-AIPW High	-1.111**	-3.563***	-2.538**	-3.576**	-5.443***	-5.047**
	(0.391)	(0.551)	(0.703)	(1.051)	(1.494)	(1.986)		(0.495)	(0.698)	(0.985)	(1.408)	(1.918)	(2.531)
ATE-AIPW Low	-2.969***	-4.344***	-6.274***	-11.091***	-11.031***	-13.326***	ATE-AIPW Low	-7.441***	-8.027***	-12.078***	-15.083***	-16.385***	-19.098***
	(0.275)	(0.474)	(0.699)	(1.001)	(1.459)	(1.942)		(0.513)	(0.702)	(0.998)	(1.380)	(1.918)	(2.494)
P-value High=Low	0.000	0.000	0.000	0.000	0.000	0.000	P-value High=Low	0.000	0.000	0.000	0.000	0.000	0.000
Avg.(trade) in countries above cutoff	3.157	6.913	10.928	15.150	18.932	22.777	Avg.(trade) in countries above cutoff	3.770	8.651	13.650	18.749	23.812	28.669
Avg.(trade) in countries below cutoff	2.571	4.552	6.909	9.276	11.957	14.748	Avg.(trade) in countries below cutoff	2.684	4.068	5.793	7.984	10.379	13.319
Describe Associations							Den 11. Andre kenne						
ATE A DW High	0 606888	0.069	0 593***	1.002***	0 457**	0.059***	ATE ADV High	0.006	0.561888	0.226**	0.2278	0 562888	0.2018
ATE-AIF W High	-0.000+++	-0.008	(0.104)	(0.212)	(0.324)	(0.201)	ATE-AIF w High	-0.090	-0.501++++	-0.520**	-0.527*	-0.303++++	-0.381+
ATE AIDWI ow	0.061	0.291***	0.559***	1.050***	1 210***	0.301)	ATE AIDW Low	0.560***	0.571***	1.002***	1 492***	1 644***	1 602***
ATE-AII () LOW	(0.066)	(0.080)	(0.148)	(0.171)	(0.210)	(0.230)	ATE-AIL () LOW	(0.123)	(0.117)	(0.127)	(0.172)	(0.167)	(0.108)
P-value High=Low	0.000	0.001	0.000	0.000	0.000	0.000	P-value High=Low	0.000	0.885	0.000	0.000	0.000	0.000
Avg.(trade) in countries above cutoff	0.334	0.836	1.347	1.870	2.339	2.875	Avg.(trade) in countries above cutoff	0.305	0.696	1.155	1.648	2.131	2.685
Avg.(trade) in countries below cutoff	0.360	0.559	0.885	1.238	1.600	1.990	Avg.(trade) in countries below cutoff	0.328	0.566	0.715	0.968	1.207	1.474
	0.000							0.00-0					
Panel c: Mining							Panel c: Mining						
ATE-AIPW High	1.222***	0.135	0.016	-0.543	-0.284	1.031	ATE-AIPW High	-0.345***	-0.735***	-0.924***	-1.202***	-1.273***	-1.067**
-	(0.234)	(0.299)	(0.305)	(0.399)	(0.511)	(0.677)	-	(0.096)	(0.155)	(0.198)	(0.279)	(0.381)	(0.497)
ATE-AIPW Low	-1.272***	-0.650**	-1.548***	-3.413***	-2.674***	-3.749***	ATE-AIPW Low	-0.887***	-0.560***	-1.180***	-2.465***	-2.881***	-4.205***
	(0.151)	(0.260)	(0.286)	(0.385)	(0.462)	(0.624)		(0.104)	(0.188)	(0.225)	(0.273)	(0.345)	(0.443)
P-value High=Low	0.000	0.000	0.000	0.000	0.000	0.000	P-value High=Low	0.000	0.242	0.126	0.000	0.000	0.000
Avg.(trade) in countries above cutoff	0.728	1.450	2.278	3.228	3.960	4.537	Avg.(trade) in countries above cutoff	0.622	1.574	2.553	3.565	4.425	5.174
Avg.(trade) in countries below cutoff	0.389	0.791	1.248	1.652	2.222	2.939	Avg.(trade) in countries below cutoff	0.563	0.774	1.087	1.383	1.747	2.090
Panel d: Manufacturing							Panel d: Manufacturing						
ATE-AIPW High	-0.699***	-1.348***	-2.259***	-3.706***	-4.987***	-5.339***	ATE-AIPW High	-0.782**	-2.323***	-1.317*	-1.984**	-3.403***	-3.627**
	(0.173)	(0.326)	(0.441)	(0.662)	(0.876)	(1.070)		(0.333)	(0.463)	(0.679)	(0.968)	(1.284)	(1.662)
ATE-AIPW Low	-1.118***	-2.160***	-3.085***	-5.008***	-5.519***	-6.301***	ATE-AIPW Low	-4.116***	-4.648***	-6.818***	-8.109***	-8.873***	-9.842***
B l · III' · l · I ·	(0.157)	(0.281)	(0.436)	(0.661)	(0.878)	(1.066)	Dente III to a	(0.328)	(0.445)	(0.657)	(0.942)	(1.277)	(1.648)
P-value High=Low	0.000	0.000	0.000	0.000	0.009	0.000	P-value High=Low	0.000	0.000	0.000	0.000	0.000	0.000
Avg.(trade) in countries above cutor	1.307	3.003	4.700	4.082	7.974 5.177	9.593	Avg.(trade) in countries above cutoff	2.200	5.048	2.051	10.441	13.283	15.973
Avg.(trade) in countries below cuton	1.150	1.995	2.981	4.062	3.177	0.285	Avg.(trade) in countries below cuton	1.327	1.939	2.931	4.238	3.008	7.314
Panal a. Sarvicas							Panel e: Services						
ATE-AIPW High	-0 201***	-0 703***	-0 526***	-0 757***	-1 605***	-2 020***	ATE-AIPW High	0.113	0.056	0.029	-0.063	-0.204	0.028
in the second second	(0.076)	(0.136)	(0.203)	(0 274)	(0.424)	(0.613)	in the international states and the	(0.076)	(0.122)	(0.170)	(0.214)	(0.282)	(0.355)
ATE-AIPW Low	-0.517***	-1.153***	-1.083***	-1.610***	-1.619***	-2.567***	ATE-AIPW Low	-1.868***	-2.247***	-3.072***	-3.026***	-2.987***	-3.450***
	(0.073)	(0.137)	(0.205)	(0.258)	(0.421)	(0.603)		(0.110)	(0.131)	(0.185)	(0.216)	(0.287)	(0.351)
P-value High=Low	0.000	0.000	0.000	0.000	0.930	0.001	P-value High=Low	0.000	0.000	0.000	0.000	0.000	0.000
Avg.(trade) in countries above cutoff	0.728	1.565	2.538	3.643	4.659	5.771	Avg.(trade) in countries above cutoff	0.577	1.333	2.169	3.095	3.973	4.837
Avg.(trade) in countries below cutoff	0.673	1.206	1.795	2.304	2.958	3.534	Avg.(trade) in countries below cutoff	0.466	0.769	1.040	1.375	1.757	2.239
Observations	576	576	576	576	576	576	Observations	576	576	576	576	576	576
# of Crises	15	15	15	15	15	15	# of Crises	15	15	15	15	15	15
Cutoff of channel variable, median	-1.017	-1.017	-1.017	-1.017	-1.017	-1.017	Cutoff of channel variable, median	-1.017	-1.017	-1.017	-1.017	-1.017	-1.017
Notes: Robust standard errors clustered	at the cour	try-level in	narenthese	s*n<01	** n < 0.05	*** n < 0.01	IPW estimates. The dependent variables an	e 100 times	the cumuls	tive change	of agricultur	al mining	

Notes: Robust standard errors clustered at the country-level in parentheses.\* p < 0.1, \*\* p < 0.05, \*\*\* p < 0.1. IPW estimates. The dependent variables are 100 times the cumulative change of agricultural, mining, manufacturing, services, and total exports and imports relative to the year prior to the onset of the crisis for years 1-5 after the onset of the crisis, scaled pre-crisis GDP. Accumulated costs over five years. Observations in the treated and control groups are weighted by the propensity scores predicted in the treatment model. Maximum weights truncated at 10.

Table A.20b: Channels, Cumulative trade losses over five years after banking crises with higher and lower evolution of gross capital inflows

Panel	I. Export	s (% of pre	-crisis GD	P)			Pane	I II. Imnor	ts (% of pr	e-crisis GD	P)		
	(1)	(2)	(3)	(4)	(5)	(6)		(1)	(2)	(3)	(4)	(5)	(6)
	h=0	h=1	h=2	h=3	h=4	h=5	-	h=0	h=1	h=2	h=3	h=4	h=5
	Panel B:	: Banking c	rises					Panel B	: Banking	crises			
Panel a: Total							Panel a: Total						
ATE-AIPW High	-1.710***	* -3.143***	-4.896***	-4.913***	-5.811***	-5.704***	ATE-AIPW High	-3.678***	-4.163***	-6.129***	-6.869***	-6.770***	-6.816***
	(0.384)	(0.512)	(0.651)	(0.908)	(1.168)	(1.364)		(0.526)	(0.878)	(1.253)	(1.936)	(2.526)	(2.109)
ATE-AIPW Low	-0.541	-5.077***	-5.633***	-6.218***	-9.661***	-10.856***	ATE-AIPW Low	-1.548***	-8.040***	-10.632***	-11.615***	-15.010***	-17.229***
	(0.404)	(0.515)	(0.655)	(0.897)	(1.160)	(1.319)		(0.559)	(0.923)	(1.284)	(1.942)	(2.530)	(2.108)
P-value High=Low	0.000	0.000	0.003	0.000	0.000	0.000	P-value High=Low	0.000	0.000	0.000	0.000	0.000	0.000
Avg.(trade) in countries above cutoff	3.114	6.771	10.547	14.491	18.125	21.969	Avg.(trade) in countries above cutoff	3.725	8.316	12.864	17.794	22.457	27.076
Avg.(trade) in countries below cutoff	2.444	3.959	6.261	8.596	11.214	13.576	Avg.(trade) in countries below cutoff	2.356	3.071	4.634	6.077	8.429	11.204
D 11. 4							Deniel I. Annalisation in the second						
Panel b: Agriculture	0.000	0.224	0.407***	0.4/0+**	0.50/***	1.120***	Panel b: Agriculture	0.531899	0.275040	0.720***	0.767**	0.071***	1.022***
ATE-AIP w High	(0.089	-0.224	-0.406***	-0.462***	-0.506***	-1.129****	ATE-AIP w High	-0.521***	-0.3/5****	-0.650***	-0.757**	-0.8/1***	-1.055****
ATE ADVI on	0.250888	(0.150)	(0.141)	(0.170)	(0.195)	(0.202)	ATE ADM L on	0.092)	(0.155)	(0.188)	(0.501)	(0.551)	(0.204)
ATE-AIF W LOW	-0.230+++	(0.120)	-1.512+++	-1.392+++	-1.865****	-2.193	ATE-AIF W LOW	-0.098	-0.045	-0.430***	-0.801***	-1.108+++	-1.942***
P value High=Low	0.000	0.000	0.000	0.000	0.000	0.000	P value High=Low	0.000	0.000	0.005	0.427	0.001	0.000
Avg (trade) in countries above outoff	0.000	0.000	1 2 2 8	1 947	2 270	2.780	Avg (trode) in countries above outoff	0.000	0.000	1 1 1 2	1.509	2.010	2 542
Avg.(trade) in countries below cutoff	0.336	0.301	0.744	1.041	1.455	1.876	Avg.(trade) in countries below cutoff	0.278	0.454	0.648	0.820	1 1 2 2	1 350
Avg.(trade) in countries below cuton	0.550	0.571	0.744	1.041	1.455	1.070	Avg.(trade) in countries below cuton	0.270	0.4.54	0.040	0.020	1.122	1.550
Panel c: Mining							Panel c: Mining						
ATE-AIPW High	-0.381	-0.527***	-0.887***	-1.576***	-2.799***	-2.372***	ATE-AIPW High	-0.680***	-1.024***	-1.721***	-2.005***	-2.324***	-2.337***
	(0.241)	(0.194)	(0.273)	(0.339)	(0.402)	(0.494)		(0.147)	(0.184)	(0.249)	(0.364)	(0.489)	(0.472)
ATE-AIPW Low	0.560**	-0.905***	-0.815***	-0.951***	-1.725***	-2.172***	ATE-AIPW Low	-0.609***	-1.489***	-1.911***	-2.181***	-2.944***	-3.306***
	(0.254)	(0.191)	(0.252)	(0.337)	(0.423)	(0.503)		(0.143)	(0.188)	(0.250)	(0.363)	(0.485)	(0.464)
P-value High=Low	0.000	0.000	0.541	0.000	0.000	0.192	P-value High=Low	0.078	0.000	0.001	0.002	0.000	0.000
Avg.(trade) in countries above cutoff	0.715	1.397	2.186	2.977	3.660	4.303	Avg.(trade) in countries above cutoff	0.592	1.486	2.348	3.268	4.082	4.793
Avg.(trade) in countries below cutoff	0.284	0.659	1.068	1.663	2.296	2.898	Avg.(trade) in countries below cutoff	0.616	0.676	1.022	1.266	1.549	1.825
Panel d: Manufacturing							Panel d: Manufacturing						
ATE-AIPW High	-0.716***	* -1.330***	-2.226***	-1.927***	-1.290*	-1.371*	ATE-AIPW High	-2.043***	-2.315***	-3.172***	-3.225***	-2.537*	-2.430**
	(0.185)	(0.267)	(0.343)	(0.487)	(0.674)	(0.777)		(0.294)	(0.500)	(0.703)	(1.088)	(1.405)	(1.166)
ATE-AIPW Low	-0.619***	* -1.223***	-0.813*	-0.589	-1.796***	-1.332*	ATE-AIPW Low	-1.063***	-5.205***	-6.101***	-5.920***	-7.729***	-8.712***
	(0.199)	(0.311)	(0.421)	(0.523)	(0.648)	(0.792)		(0.313)	(0.526)	(0.722)	(1.091)	(1.397)	(1.172)
P-value High=Low	0.310	0.584	0.000	0.000	0.240	0.945	P-value High=Low	0.000	0.000	0.000	0.000	0.000	0.000
Avg.(trade) in countries above cutoff	1.353	2.999	4.567	6.171	7.753	9.386	Avg.(trade) in countries above cutoff	2.235	4.833	7.330	9.976	12.614	15.169
Avg.(trade) in countries below cutoff	1.097	1.726	2.770	3.752	4.612	5.475	Avg.(trade) in countries below cutoff	1.025	1.258	2.134	2.946	4.301	6.157
Panal at Samiaas							Popel of Services						
ATE AIDW High	0 701***	1 062***	1 276***	0.047***	1 216***	0.921	ATE AIDW High	0.422***	0.440***	0.605***	0.883***	1 029***	1.016***
ATE-AII W Ingi	(0.004)	(0.151)	(0.220)	(0.252)	(0.462)	-0.831	ATE-An wingi	(0.085)	(0.142)	(0.212)	(0.280)	(0.285)	(0.220)
ATE-AIPW Low	-0 231**	-2 085***	-2 602***	-3.086***	-4 256***	-5 150***	ATE-AIPW Low	0.223*	-1 303***	-2 183***	-2 714***	-3 220***	-3 260***
ATE-AR () DOW	(0.094)	(0.175)	(0.266)	(0.371)	(0.476)	(0 543)	ATE-AR () LOW	(0.119)	(0.153)	(0.218)	(0.285)	(0.393)	(0.342)
P-value High=Low	0.000	0.000	0.000	0.000	0.000	0.000	P-value High=Low	0.000	0.000	0.000	0.000	0.000	0.000
Avg.(trade) in countries above cutoff	0.699	1.518	2.466	3.496	4.434	5.500	Avg.(trade) in countries above cutoff	0.570	1.278	2.073	2.952	3.742	4.571
Avg.(trade) in countries below cutoff	0.727	1.183	1.679	2.140	2.851	3.328	Avg.(trade) in countries below cutoff	0.438	0.682	0.830	1.045	1.456	1.872
Observations	579	579	579	579	579	579	Observations	579	579	579	579	579	579
# of Crises	14	14	14	14	14	14	# of Crises	14	14	14	14	14	14
Cutoff of channel variable, median	-2.225	-2.225	-2.225	-2.225	-2.225	-2.225	Cutoff of channel variable, median	-2.225	-2.225	-2.225	-2.225	-2.225	-2.225
							sares of channel (artuble, incular						

<u>Curves or channet variables, median</u> -2.225 -2.25 -

Table A.20c: Channels, Cumulative trade losses over five years after currency crises with higher and lower evolution of gross capital inflows

Panel	I: Exports	s (% of pre	-crisis GD	P)			Pane	l II: Impor	ts (% of pr	e-crisis GD	P)		
	(1)	(2)	(3)	(4)	(5)	(6)		(1)	(2)	(3)	(4)	(5)	(6)
	h=0	h=1	h=2	h=3	h=4	h=5		h=0	h=1	h=2	h=3	h=4	h=5
	Panel C:	Currency	crises				-	Panel C	Currency	crises			
Panel a: Total							Panel a: Total						
ATE-AIPW High	-1.391***	-3.473***	-4.683***	-5.104***	-5.993***	-5.173***	ATE-AIPW High	-5.233***	-6.613***	-8.501***	-9.139***	-8.097***	-4.712***
	(0.314)	(0.473)	(0.672)	(0.812)	(0.978)	(1.212)		(0.522)	(0.685)	(1.013)	(1.150)	(1.397)	(1.747)
ATE-AIPW Low	-3.920***	-3.825***	-3.451***	-4.278***	-7.463***	-11.400***	ATE-AIPW Low	-7.220***	-8.368***	-8.167***	-8.152***	-9.938***	-13.246***
	(0.443)	(0.529)	(0.694)	(0.843)	(0.974)	(1.172)		(0.620)	(0.718)	(0.951)	(1.152)	(1.447)	(1.704)
P-value High=Low	0.000	0.280	0.002	0.095	0.010	0.000	P-value High=Low	0.000	0.000	0.540	0.081	0.007	0.000
Avg.(trade) in countries above cutoff	3.116	6.885	10.831	14.932	18.658	22.547	Avg.(trade) in countries above cutoff	3.736	8.616	13.472	18.537	23.372	28.228
Avg.(trade) in countries below cutoff	2.594	4.403	6.742	9.167	11.856	14.477	Avg.(trade) in countries below cutoff	2.651	3.743	5.446	7.450	10.028	12.806
Panel b: Agriculture							Panel b: Agriculture						
ATE-AIPW High	0.022	-0.453***	-0.216*	-0.548***	-0.352**	-0.523**	ATE-AIPW High	-0.516***	-0.702***	-0.881***	-1.061***	-0.786***	-0.478**
	(0.058)	(0.080)	(0.110)	(0.137)	(0.169)	(0.213)		(0.100)	(0.092)	(0.144)	(0.138)	(0.168)	(0.209)
ATE-AIPW Low	-0.152**	-0.157	0.508**	0.547**	0.191	-0.144	ATE-AIPW Low	-0.486***	-0.446***	-0.647***	-0.617***	-0.734***	-0.971***
	(0.069)	(0.116)	(0.250)	(0.242)	(0.208)	(0.227)		(0.099)	(0.089)	(0.137)	(0.136)	(0.172)	(0.190)
P-value High=Low	0.000	0.002	0.002	0.000	0.000	0.010	P-value High=Low	0.373	0.000	0.000	0.000	0.461	0.000
Avg.(trade) in countries above cutoff	0.331	0.850	1.350	1.871	2.325	2.859	Avg.(trade) in countries above cutoff	0.324	0.720	1.161	1.660	2.112	2.670
Avg.(trade) in countries below cutoff	0.368	0.510	0.841	1.183	1.563	1.942	Avg.(trade) in countries below cutoff	0.296	0.513	0.668	0.888	1.163	1.400
Panel c: Mining							Panel c: Mining						
ATE-AIPW High	-0.050	-0.916***	-1.732***	-1.444***	-2.146***	-2.086***	ATE-AIPW High	-1.311***	-1.649***	-2.671***	-2.818***	-2.972***	-2.470***
<u>a</u>	(0.170)	(0.186)	(0.297)	(0.364)	(0.425)	(0.497)		(0.117)	(0.167)	(0.253)	(0.283)	(0.347)	(0.410)
ATE-AIPW Low	-0.792***	-1.139***	-1.147***	-2.281***	-3.745***	-4.119***	ATE-AIPW Low	-1.337***	-1.571***	-1.514***	-2.131***	-2.994***	-3.550***
	(0.172)	(0.191)	(0.275)	(0.349)	(0.390)	(0.462)		(0.134)	(0.162)	(0.191)	(0.237)	(0.288)	(0.350)
P-value High=Low	0.000	0.002	0.003	0.000	0.000	0.000	P-value High=Low	0.812	0.337	0.000	0.000	0.914	0.000
Avg.(trade) in countries above cutoff	0.722	1.424	2.247	3.125	3.864	4.460	Avg.(trade) in countries above cutoff	0.603	1.550	2.502	3.501	4.334	5.057
Avg.(trade) in countries below cutoff	0.371	0.782	1.216	1.702	2.246	2.942	Avg.(trade) in countries below cutoff	0.591	0.748	1.055	1.311	1.684	2.037
Panel d: Manufacturing							Panel d: Manufacturing						
ATE-AIPW High	-0.669***	-1.470***	-2.130***	-2.236***	-2.385***	-1.582**	ATE-AIPW High	-2.766***	-3.239***	-3.645***	-3.967***	-3.393***	-1.120
	(0.166)	(0.268)	(0.358)	(0.441)	(0.532)	(0.633)		(0.315)	(0.402)	(0.554)	(0.660)	(0.794)	(0.975)
ATE-AIPW Low	-2.052***	-2.146***	-2.463***	-2.967***	-4.076***	-5.641***	ATE-AIPW Low	-4.405***	-5.394***	-5.114***	-4.667***	-5.449***	-7.367***
	(0.272)	(0.320)	(0.369)	(0.458)	(0.556)	(0.672)		(0.375)	(0.436)	(0.565)	(0.688)	(0.853)	(0.998)
P-value High=Low	0.000	0.003	0.112	0.008	0.000	0.000	P-value High=Low	0.000	0.000	0.000	0.036	0.000	0.000
Avg.(trade) in countries above cutoff	1.359	3.053	4.692	6.315	7.855	9.512	Avg.(trade) in countries above cutoff	2.242	5.021	7.664	10.315	13.014	15.730
Avg.(trade) in countries below cutoff	1.145	1.922	2.961	4.052	5.153	6.151	Avg.(trade) in countries below cutoff	1.292	1.745	2.736	3.959	5.502	7.232
Panel e: Services							Panel e: Services						
ATE-AIPW High	-0.694***	-0.634***	-0.605***	-0.875***	-1.110***	-0.982**	ATE-AIPW High	-0.641***	-1.024***	-1.305***	-1.293***	-0.947***	-0.644*
	(0.100)	(0.163)	(0.234)	(0.296)	(0.346)	(0.440)		(0.090)	(0.144)	(0.196)	(0.215)	(0.277)	(0.347)
ATE-AIPW Low	-0.924***	-0.384***	-0.349	0.423	0.168	-1.496***	ATE-AIPW Low	-0.992***	-0.957***	-0.892***	-0.736***	-0.761***	-1.358***
	(0.102)	(0.145)	(0.216)	(0.296)	(0.349)	(0.414)		(0.099)	(0.148)	(0.187)	(0.221)	(0.271)	(0.304)
P-value High=Low	0.001	0.043	0.155	0.000	0.000	0.175	P-value High=Low	0.000	0.463	0.001	0.000	0.387	0.015
Avg.(trade) in countries above cutoff	0.704	1.557	2.542	3.621	4.614	5.716	Avg.(trade) in countries above cutoff	0.567	1.324	2.145	3.060	3.912	4.771
Avg.(trade) in countries below cutoff	0.710	1.190	1.724	2.230	2.894	3.443	Avg.(trade) in countries below cutoff	0.473	0.737	0.988	1.292	1.679	2.137
Observations	579	579	579	579	579	579	Observations	579	579	579	579	579	579
# of Crises	15	15	15	15	15	15	# of Crises	15	15	15	15	15	15
Cutoff of channel variable, median	-1.371	-1.371	-1.371	-1.371	-1.371	-1.371	Cutoff of channel variable, median	-1.371	-1.371	-1.371	-1.371	-1.371	-1.371

**Exercise channet variables, median** -1.5/1

Table A.21a: Channels, Cumulative trade losses over five years after debt crises with higher and lower evolution of investors' credit ratings risks

Panel	Panel II: Imports (% of pre-crisis GDP)													
	(1)	(2)	(3)	(4)	(5)	(6)		(1)	(2)	(3)	(4)	(5)	(6)	
	h=0	h=1	h=2	h=3	h=4	h=5		h=0	h=1	h=2	h=3	h=4	h=5	
Panel A: Debt crises							Panel A: Debt crises							
Panel a: Total							Panel a: Total							
ATE-AIPW High	-0.921***	-1.214***	-1.386**	-3.828***	-3.383***	-2.395*	ATE-AIPW High	-1.601***	-2.344***	-1.690*	-0.923	-1.036	1.391	
	(0.321)	(0.416)	(0.610)	(0.859)	(1.111)	(1.398)		(0.426)	(0.580)	(0.896)	(1.197)	(1.470)	(1.977)	
ATE-AIPW Low	-0.812***	-3.913***	-6.050***	-8.587***	-9.814***	-10.174***	ATE-AIPW Low	-4.820***	-10.537***	-12.064***	-14.338***	-16.217***	-17.600***	
	(0.282)	(0.412)	(0.607)	(0.861)	(1.056)	(1.277)		(0.536)	(0.619)	(0.941)	(1.218)	(1.418)	(1.713)	
P-value High=Low	0.697	0.000	0.000	0.000	0.000	0.000	P-value High=Low	0.000	0.000	0.000	0.000	0.000	0.000	
Avg.(trade) in countries above cutoff	2.978	6.358	10.305	14.546	18.777	23.345	Avg.(trade) in countries above cutoff	3.788	8.141	12.819	17.750	22.800	28.183	
Avg.(trade) in countries below cutoff	0.231	-0.010	1.075	2.520	3.834	5.983	Avg.(trade) in countries below cutoff	-1.147	-2.884	-2.379	-0.824	0.693	2.899	
Panel b: Agriculture							Panel b: Agriculture							
ATE-AIPW High	-0.118	0.608***	0.969***	1.295***	$2.104^{***}$	3.875***	ATE-AIPW High	-0.097	-0.225**	-0.092	-0.117	-0.222	0.295	
	(0.141)	(0.151)	(0.179)	(0.295)	(0.405)	(0.680)		(0.116)	(0.110)	(0.141)	(0.188)	(0.161)	(0.201)	
ATE-AIPW Low	0.068	-0.259**	-0.464***	-0.142	-0.133	0.274	ATE-AIPW Low	-0.166	-1.021***	-1.148***	-1.609***	-1.798***	-1.954***	
	(0.062)	(0.107)	(0.143)	(0.196)	(0.238)	(0.323)		(0.122)	(0.115)	(0.146)	(0.195)	(0.168)	(0.202)	
P-value High=Low	0.177	0.000	0.000	0.000	0.000	0.000	P-value High=Low	0.142	0.000	0.000	0.000	0.000	0.000	
Avg.(trade) in countries above cutoff	0.358	0.794	1.295	1.793	2.316	2.947	Avg.(trade) in countries above cutoff	0.342	0.716	1.160	1.629	2.107	2.627	
Avg.(trade) in countries below cutoff	0.155	0.074	0.301	0.712	1.042	1.583	Avg.(trade) in countries below cutoff	-0.105	-0.157	-0.091	0.065	0.172	0.373	
Descher Minime							Densites MC-2							
Panel c: Mining	0.000	0.401**	0.157	0.027***	0.052	0.057	Panel c: Mining	0.00/***	0.502***	0.075***	0.022***	0.544*	0.241	
ATE-AIPW High	0.080	0.491**	0.150	-0.85/****	0.052	0.856	ATE-AIP w High	-0.580****	-0.503****	-0.805****	-0.932***	-0.544*	-0.541	
	(0.201)	(0.200)	(0.251)	(0.324)	(0.417)	(0.548)		(0.095)	(0.144)	(0.197)	(0.275)	(0.326)	(0.448)	
ATE-AIF W LOW	(0.154)	-0.775+++	-0.955****	-1.903++++	-1.890***	-1.000++++	ATE-AIF W LOW	-0.405++++	(0.127)	-1.210+++	-2.100+++	-2.008++++	-2.004	
D volue High-L ov	0.206	0.000	0.000	0.000	0.000	0.000	D volue High-L or	0.000	0.000	0.008	0.000	0.000	0.000	
r-value High=Low	0.500	1.022	1.000	0.000	0.000	0.000	r-value High=Low	0.009	1.000	0.008	0.000	0.000	1.000	
Avg.(trade) in countries above cuton	0.451	1.032	1.808	2.691	3.388	4.476	Avg.(trade) in countries above cutoff	0.540	1.223	2.023	2.956	3.912	4.900	
Avg.(trade) in countries below cutoff	-0.247	-0.498	-0.542	-0.595	-0.569	-0.325	Avg.(trade) in countries below cuton	-0.197	-0.406	-0.158	0.016	0.020	0.228	
Panel d: Manufacturing							Panel d: Manufacturing							
ATE-AIPW High	-0 710***	-1 565***	-2 010***	-3 354***	-4 374***	-5.061***	ATE-AIPW High	-0 754***	-1 064***	0.060	0.962	0.519	2 077	
in the second second	(0.128)	(0.214)	(0.323)	(0.424)	(0.545)	(0.650)	interim () ingu	(0.256)	(0.366)	(0.560)	(0.748)	(0.953)	(1.314)	
ATE-AIPW Low	-0.601***	-1 196***	-2 437***	-3 856***	-4 750***	-5 512***	ATE-AIPW Low	-2 893***	-6 238***	-7 030***	-7 858***	-8 661***	-9 637***	
	(0.120)	(0.212)	(0.311)	(0.419)	(0.529)	(0.637)		(0.316)	(0.371)	(0.561)	(0.708)	(0.829)	(0.975)	
P-value High=Low	0.056	0.000	0.000	0.000	0.022	0.017	P-value High=Low	0.000	0.000	0.000	0.000	0.000	0.000	
Avg.(trade) in countries above cutoff	1.265	2.710	4.328	6.099	7.849	9.740	Avg.(trade) in countries above cutoff	2.204	4.739	7.389	10.093	12.882	15.881	
Avg.(trade) in countries below cutoff	0.267	0.290	0.993	1.693	2.233	3.020	Avg.(trade) in countries below cutoff	-0.658	-1.872	-1.579	-0.675	0.447	1.776	
Panel e: Services							Panel e: Services							
ATE-AIPW High	-0.173**	-0.749***	-0.502**	-0.931***	-1.165***	-2.064***	ATE-AIPW High	-0.164*	-0.552***	-0.793***	-0.836***	-0.789***	-0.639**	
0	(0.084)	(0.143)	(0.204)	(0.260)	(0.302)	(0.354)	0	(0.094)	(0.125)	(0.173)	(0.210)	(0.248)	(0.279)	
ATE-AIPW Low	-0.565***	-1.684***	-2.194***	-2.624***	-3.042***	-3.330***	ATE-AIPW Low	-1.358***	-2.274***	-2.670***	-2.704***	-3.149***	-3.406***	
	(0.086)	(0.137)	(0.195)	(0.246)	(0.291)	(0.352)		(0.116)	(0.125)	(0.172)	(0.209)	(0.245)	(0.286)	
P-value High=Low	0.000	0.000	0.000	0.000	0.000	0.000	P-value High=Low	0.000	0.000	0.000	0.000	0.000	0.000	
Avg.(trade) in countries above cutoff	0.905	1.822	2.873	3.963	5.024	6.183	Avg.(trade) in countries above cutoff	0.696	1.463	2.247	3.072	3.900	4.775	
Avg.(trade) in countries below cutoff	0.055	0.124	0.324	0.708	1.128	1.706	Avg.(trade) in countries below cutoff	-0.188	-0.449	-0.551	-0.230	0.054	0.521	
Observations	627	627	627	627	627	627	Observations	627	627	627	627	627	627	
# of Crises	18	18	18	18	18	18	# of Crises	18	18	18	18	18	18	
Cutoff of channel variable, median	-5.567	-5.567	-5.567	-5.567	-5.567	-5.567	Cutoff of channel variable, median	-5.567	-5.567	-5.567	-5.567	-5.567	-5.567	
N														

Notes: Robust standard errors clustered at the country-level in parentheses.\* p < 0.1, \*\* p < 0.05, \*\*\* p < 0.01. IPW estimates. The dependent variables are 100 times the cumulative change of agricultural, mining, manufacturing, services, and total exports and imports relative to the year prior to the onset of the crisis for years 1-5 after the onset of the crisis, scaled pre-crisis GDP. Accumulated costs over five years. Observations in the treated and control groups are weighted by the propensity scores predicted in the treatment model. Maximum weights truncated at 10.

Table A.21b: Channels, Cumulative trade losses over five years after banking crises with higher and lower evolution of investors' credit ratings risks

Panel	I: Export	s (% of pre	-crisis GD	P)			Panel II: Imports (% of pre-crisis GDP)						
	(1)	(2)	(3)	(4)	(5)	(6)		(1)	(2)	(3)	(4)	(5)	(6)
	h=0	h=1	h=2	h=3	h=4	h=5		h=0	h=1	h=2	h=3	h=4	h=5
	Panel B	: Banking c	rises					Panel B	: Banking	crises			
Panel a: Total							Panel a: Total						
ATE-AIPW High	-0.580	-2.438***	-3.889***	-3.848***	-5.909***	-5.329***	ATE-AIPW High	-1.111**	-2.971***	-4.883***	-6.376***	-7.466***	-7.985***
	(0.400)	(0.492)	(0.576)	(0.788)	(0.962)	(1.190)		(0.542)	(0.736)	(0.943)	(1.213)	(1.520)	(1.773)
ATE-AIPW Low	0.005	-6.781***	-6.752***	-6.508***	-10.713***	-12.620***	ATE-AIPW Low	-2.091***	-12.004***	-13.464***	-13.384***	-16.763***	-19.355***
	(0.440)	(0.514)	(0.601)	(0.800)	(0.910)	(1.144)		(0.569)	(0.735)	(0.922)	(1.213)	(1.470)	(1.711)
P-value High=Low	0.024	0.000	0.000	0.000	0.000	0.000	P-value High=Low	0.010	0.000	0.000	0.000	0.000	0.000
Avg.(trade) in countries above cutoff	3.219	6.821	11.233	15.863	20.400	25.571	Avg.(trade) in countries above cutoff	4.194	9.173	14.933	20.582	26.050	32.097
Avg.(trade) in countries below cutoff	1.433	2.971	4.873	7.251	9.741	12.156	Avg.(trade) in countries below cutoff	1.069	1.807	2.689	4.869	7.713	10.531
Panel b. Agriculture							Panel h. Agriculture						
ATE-AIPW High	0.151**	-0.087	-0.249*	-0.465***	-1.131***	-1.561***	ATE-AIPW High	-0.187**	-0.115	-0.277**	-0.542***	-0.847***	-1.079***
·····	(0.071)	(0.102)	(0.134)	(0.169)	(0.193)	(0.225)		(0.076)	(0.107)	(0.129)	(0.150)	(0.176)	(0.187)
ATE-AIPW Low	-0.015	-0.636***	-0.675***	-0.669***	-0.458**	-0.860***	ATE-AIPW Low	-0.241***	-0.826***	-1.044***	-1.321***	-1.654***	-1.953***
	(0.066)	(0.086)	(0.116)	(0.161)	(0.207)	(0.243)		(0.061)	(0.087)	(0.109)	(0.144)	(0.170)	(0.189)
P-value High=Low	0.004	0.000	0.000	0.090	0.000	0.000	P-value High=Low	0.411	0.000	0.000	0.000	0.000	0.000
Avg.(trade) in countries above cutoff	0.382	0.839	1.365	1.894	2.464	3.157	Avg.(trade) in countries above cutoff	0.353	0.778	1.303	1.841	2.351	2.921
Avg.(trade) in countries below cutoff	0.231	0.427	0.771	1.173	1.526	1.996	Avg.(trade) in countries below cutoff	0.148	0.256	0.388	0.597	0.868	1.166
Panel c: Mining	0.170	0 (10***	1.407***	2.057***	2.020***	2.11/***	Panel c: Mining	0.427844	0.750***	1.240***	1.70/***	2.245***	0.001++++
ATE-AIPW High	-0.178	-0.049***	-1.406***	-2.05/***	-3.038****	-2.116***	ATE-AIPW High	-0.430***	-0.758****	-1.540****	-1./80***	-2.245****	-2.551***
ATE AIDWL	(0.230)	(0.208)	(0.226)	(0.280)	(0.554)	(0.474)	ATTE A IDW/ Low	(0.120)	(0.149)	(0.184)	(0.229)	(0.276)	(0.542)
ATE-AIF W LOW	(0.254)	-0.902+++	-0.521**	-0.494	-1.980***	-2.033++++	ATE-AIF W LOW	-0.181	(0.152)	-1.788****	(0.228)	(0.284)	-5.081***
P-value High=Low	0.000	0.005	0.000	0.000	0.000	0.790	P-value High=Low	0.000	0.000	0.000	0 544	0.007	0.000
Avg (trade) in countries above cutoff	0.534	1 155	1 993	2 894	3 769	4 751	Avg (trade) in countries above cutoff	0.596	1 371	2 370	3 392	4 368	5 500
Avg.(trade) in countries below cutoff	0.013	0.195	0.530	1.016	1.622	2.072	Avg.(trade) in countries below cutoff	0.159	0.295	0.482	0.941	1.490	1.887
<u></u>									0.270				
Panel d: Manufacturing							Panel d: Manufacturing						
ATE-AIPW High	0.027	-0.047	-0.185	0.161	0.272	0.628	ATE-AIPW High	-0.602*	-1.684***	-2.213***	-2.834***	-2.774***	-2.400**
	(0.208)	(0.289)	(0.399)	(0.519)	(0.612)	(0.768)		(0.317)	(0.444)	(0.559)	(0.723)	(0.932)	(1.098)
ATE-AIPW Low	0.093	-2.984***	-2.935***	-2.376***	-4.201***	-5.268***	ATE-AIPW Low	-1.303***	-7.810***	-8.507***	-7.986***	-9.632***	-10.738***
	(0.223)	(0.280)	(0.330)	(0.453)	(0.546)	(0.680)		(0.346)	(0.450)	(0.557)	(0.721)	(0.875)	(1.026)
P-value High=Low	0.632	0.000	0.000	0.000	0.000	0.000	P-value High=Low	0.001	0.000	0.000	0.000	0.000	0.000
Avg.(trade) in countries above cutoff	1.313	2.853	4.696	6.635	8.546	10.685	Avg.(trade) in countries above cutoff	2.502	5.448	8.733	11.834	14.863	18.177
Avg.(trade) in countries below cutoff	0.783	1.490	2.301	3.316	4.278	5.239	Avg.(trade) in countries below cutoff	0.501	0.759	1.217	2.425	4.086	5.807
<b>D</b>							<b>.</b>						
Panel e: Services	0.500000			1.10.0000	2 012000		Panel e: Services	0.11.1	0.111000	1.0500000	1.015000	1 (0000000	
ATE-AIPW High	-0.580***	-1.656***	-2.049***	-1.486***	-2.012***	-2.281***	ATE-AIPW High	0.114	-0.414***	-1.052***	-1.215***	-1.600***	-1.955***
ATE ADDIVI.	(0.108)	(0.179)	(0.238)	2.060***	(0.414)	(0.347)	ATE ADWIN	(0.115)	(0.155)	(0.215)	(0.258)	(0.266)	(0.525)
ATE-AIF W LOW	-0.595+++	(0.140)	-2.022+++	-2.909****	(0.227)	-4.439+++	ATE-AIF W LOW	-0.300+++	(0.125)	(0.187)	-2.540***	-2.912+++	-2.982***
P-value High=Low	0.873	0.000	0.001	0.000	0.000	0.000	P-value High=Low	0.000	0.000	0.000	0.000	0.000	0.000
Avg.(trade) in countries above cutoff	0.990	1.974	3.180	4.440	5.621	6.978	Avg.(trade) in countries above cutoff	0.743	1.576	2.528	3.514	4.468	5.500
Avg.(trade) in countries below cutoff	0.406	0.860	1.271	1.746	2.315	2.850	Avg.(trade) in countries below cutoff	0.260	0.498	0.602	0.907	1.270	1.672
Observations	628	628	628	628	628	628	Observations	628	628	628	628	628	628
# of Crises	17	17	17	17	17	17	# of Crises	17	17	17	17	17	17
Cutoff of channel variable, median	0.267	0.267	0.267	0.267	0.267	0.267	Cutoff of channel variable, median	0.267	0.267	0.267	0.267	0.267	0.267

Notes: Robust standard errors clustered at the country-level in parentheses.\* p < 0.1, \*\* p < 0.05, \*\*\* p < 0.01 IPW estimates. The dependent variables are 100 intest the cumulative change of agricultural, mining, manufacturing, services, and total exports and imports relative to the year prior to the onset of the crisis for years 1-5 after the onset of the crisis, scaled pre-crisis GDP. Accumulated costs over five years. Observations in the treated and control groups are weighted by the propensity scores predicted in the treatment model. Maximum weights truncated at 10.

Table A.21c: Channels, Cumulative trade losses over five years after currency crises with higher and lower evolution of investors' credit ratings risks

$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Panel	I: Exports	s (% of pre	-crisis GD	P)			Panel II: Imports (% of pre-crisis GDP)						
		(1)	(2)	(3)	(4)	(5)	(6)		(1)	(2)	(3)	(4)	(5)	(6)
Panel : Currency crises         Panel : Total           The dist Total           Colspan="2">The dist Total           Colspan="2">The dist Total           Colspan="2">Colspan="2"           Colspan="2">Colspan="2">Colspan="2"           Colspan="2">Colspan="2">Colspan="2"           Colspan="2">Colspan="2"           Colspan="2">Colspan="2"           Colspan="2">Colspan="2"           Colspan="2">Colspan="2"           Colspan="2"           Colspan="2"           Colspan="2"           Colspan="2"           Colspan="2"           Colspan="2"           Colspan="2"           Colspan="2"           Colspan="2"		h=0	h=1	h=2	h=3	h=4	h=5		h=0	h=1	h=2	h=3	h=4	h=5
Panel a: Total         Panel A: Total         Panel A: Total         Panel A: Total           ATE-AIPW High         0.686**         2.03**         3.048****         3.048****		Panel C:	Currency	crises					Panel C	Currency	crises			
ATE-AIPW High       0.668***       2.209***       3.31***       5.229***       6.311***       5.29****       6.311***       5.29****       6.311***       5.29****       6.311***       5.29****       6.311***       5.29****       6.311***       5.29****       6.311***       5.29****       6.311***       5.29****       6.311***       5.29****       6.311***       5.29****       6.311***       5.29****       6.311***       5.29****       6.311***       5.311***	Panel a: Total							Panel a: Total						
(0.325)         (0.432)         (0.452)         (0.453) <t< th=""><th>ATE-AIPW High</th><th>-0.686**</th><th>-2.269***</th><th>-3.408***</th><th>-3.764***</th><th>-5.295***</th><th>-6.311***</th><th>ATE-AIPW High</th><th>-3.086***</th><th>-4.540***</th><th>-6.405***</th><th>-8.495***</th><th>-8.893***</th><th>-6.775***</th></t<>	ATE-AIPW High	-0.686**	-2.269***	-3.408***	-3.764***	-5.295***	-6.311***	ATE-AIPW High	-3.086***	-4.540***	-6.405***	-8.495***	-8.893***	-6.775***
ATE-ATFW Low       3-485***       3-395****       1-372****       1-372****       1-372****       9-381****       1-302****       1-723***         P-aloe High-Low       0.000      <		(0.325)	(0.432)	(0.578)	(0.763)	(0.882)	(1.115)		(0.463)	(0.612)	(0.882)	(1.078)	(1.283)	(1.580)
(0.45)         (0.453)         (0.453)         (0.453)         (0.453)         (0.453)         (0.453)         (0.453)         (0.453)         (1.55)         (1.57)         (0.57) <t< th=""><th>ATE-AIPW Low</th><th>-3.485***</th><th>-3.967***</th><th>-4.424***</th><th>-6.777***</th><th>-10.375***</th><th>-13.722***</th><th>ATE-AIPW Low</th><th>-7.322***</th><th>-9.207***</th><th>-9.981***</th><th>-10.584***</th><th>-13.025***</th><th>-17.237***</th></t<>	ATE-AIPW Low	-3.485***	-3.967***	-4.424***	-6.777***	-10.375***	-13.722***	ATE-AIPW Low	-7.322***	-9.207***	-9.981***	-10.584***	-13.025***	-17.237***
P-alue High-Low         0.00         0.00         0.000		(0.405)	(0.454)	(0.663)	(0.819)	(0.952)	(1.175)		(0.571)	(0.684)	(0.885)	(1.151)	(1.388)	(1.753)
Arg.(trade) in countries above cutoff       2.92       6.70       10.572       14.938       19.333       24.125       Arg.(trade) in countries above cutoff       0.852       8.450       13.474       18.622       23.806       29.408         Panel b: Agr.(trade) in countries above cutoff       0.938       1.257       2.425       4.075       5.444       7.228       Arg.(trade) in countries above cutoff       0.857       0.0337       2.221       4.302         Panel b: Agr.(tallure       Panel b: Agr.(tallure)       Panel b: Agr.(tallure)       Panel b: Agr.(tallure)       0.0136       0.0138       0.0138       0.0136       0.0138       0.0238       0.0338       0.0440       0.0138       0.0238       0.0238       0.0238       0.0238       0.0238       0.0238       0.0238       0.0238       0.0238       0.0238       0.0238       0.0238       0.0238       0.0238       0.0238	P-value High=Low	0.000	0.000	0.024	0.000	0.000	0.000	P-value High=Low	0.000	0.000	0.000	0.001	0.000	0.000
Arg.(trade) in countries below cutoff       0.938       1.257       2.425       4.075       5.444       7.228         Panel b: Agriculture       Arg.(trade) in countries below cutoff       0.059       -1.161       0.337       2.221       4.302         The AIPW High       0.187*       0.222**       0.108       0.0191       0.0157       0.0281       0.034       0.034       0.034       0.034       0.034       0.036       0.0345       0.0345       0.0331       0.0187       0.221**       0.018       0.0191       0.0175       0.0183       0.0183       0.0183       0.0183       0.0183       0.0183       0.0183       0.0183       0.0181       0.021***       1.58**         Paule High-Low       0.009       0.006       0.000       0.756       0.335       0.734       1.205       1.105       0.335       0.218       2.277       Arg.(trade) in countries below cutoff       0.034       0.075       0.135       0.228**       3.155*         The IE Wingh       0.044       0.057       0.085       0.091       0.033       0.404       Arg.(trade) in countries below cutoff       0.034       0.075       0.283*       0.283**       0.283**       0.283**       0.283**       0.283**       0.283***       0.283**       0.2	Avg.(trade) in countries above cutoff	2.992	6.470	10.572	14.938	19.333	24.126	Avg.(trade) in countries above cutoff	3.852	8.450	13.474	18.622	23.806	29.408
Panel b: Agriculture           ATE-AIPW High         0.187**         0.222**         0.108         0.944***         0.163         0.114           ATE-AIPW Low         0.005         0.0089         0.0119         0.0150         0.0250         0.0270         0.0266***         0.0275         0.0118         0.0146         0.0164         0.018         0.0146         0.0164         0.0185         0.0185         0.0275         0.0379         Arg.(trade) in countries below cutoff         0.034         0.034         0.034         0.034         0.034         0.034         0.034         0.034         0.033         0.0275         0.0339         0.0451         0.0275         0.0339         0.0451         0.0275         0.0339         0.0451         0.0275         0.033         0.034         0.034         0.034         0.034         0.034         0.034         0.034         0.0345         0.033         0.0233 <th< th=""><th>Avg.(trade) in countries below cutoff</th><th>0.938</th><th>1.257</th><th>2.425</th><th>4.075</th><th>5.444</th><th>7.228</th><th>Avg.(trade) in countries below cutoff</th><th>-0.059</th><th>-1.225</th><th>-1.161</th><th>0.337</th><th>2.221</th><th>4.302</th></th<>	Avg.(trade) in countries below cutoff	0.938	1.257	2.425	4.075	5.444	7.228	Avg.(trade) in countries below cutoff	-0.059	-1.225	-1.161	0.337	2.221	4.302
Pande is Agriculture         O.033         O.634         O.134         O.135         O.035         O.634         O.837*         O.631*         O.035         O.634*         O.837*         O.834*         O.834*         O.344*         O.034         O.634*         O.837*         O.835*         O.035         O.634*         O.837*         O.835*         O.035*														
ATE-AIPW High       0.178* 0.222* 0.108       0.349** 0.163       0.163       0.163       0.163       0.146       ATE-AIPW Low       0.039       0.119       0.145       0.0137       0.225*       0.341         ATE-AIPW Low       0.005       0.009       0.566*       0.450*       0.096       0.421       0.0033       0.01083       0.0148       0.145       0.118       0.145       0.146       0.145       0.146       0.145       0.146       0.145       0.145       0.145       0.145       0.145       0.145       0.145       0.145       0.145       0.145       0.145       0.145       0.145       0.145       0.145       0.145       0.145       0.145	Panel b: Agriculture							Panel b: Agriculture						
(0.075)       (0.089)       (0.187)       (0.245)       (0.083)       (0.083)       (0.123)       (0.145)       (0.173)         ATE-AIPW Low       (0.066)       (0.130)       (0.233)       (0.277)       (0.265)       (0.341)       (0.075)       (0.073)       (0.113)       (0.113)       (0.123)       (0.145)       (0.113)         Paule High-Low       0.000       0.021       (0.060)       (0.000)       (0.075)       (0.33)       (0.113)       (0.113)       (0.123)       (0.145)       (0.113)       (0.113)       (0.123)       (0.145)       (0.113)       (0.123)       (0.145)       (0.113)       (0.123)       (0.145)       (0.113)       (0.123)       (0.145)       (0.145)       (0.163)       (0.113)       (0.123)       (0.145)       (0.145)       (0.163)       (0.113)       (0.123)       (0.145)       (0.161)	ATE-AIPW High	0.187**	-0.222**	-0.108	-0.394***	-0.163	-0.146	ATE-AIPW High	-0.286***	-0.437***	-0.631***	-0.873***	-0.686***	-0.344**
ATE-AIPV Low         0.005         0.005         0.056***         0.456***         0.025**         0.031***         0.517*** <t< th=""><th></th><th>(0.075)</th><th>(0.089)</th><th>(0.119)</th><th>(0.150)</th><th>(0.187)</th><th>(0.245)</th><th></th><th>(0.093)</th><th>(0.083)</th><th>(0.108)</th><th>(0.123)</th><th>(0.145)</th><th>(0.173)</th></t<>		(0.075)	(0.089)	(0.119)	(0.150)	(0.187)	(0.245)		(0.093)	(0.083)	(0.108)	(0.123)	(0.145)	(0.173)
Conders         Conders <t< th=""><th>ATE-AIPW Low</th><th>0.005</th><th>-0.093</th><th>0.566**</th><th>0.450*</th><th>-0.096</th><th>-0.421</th><th>ATE-AIPW Low</th><th>-0.517***</th><th>-0.584***</th><th>-0.851***</th><th>-1.001***</th><th>-1.103***</th><th>-1.581***</th></t<>	ATE-AIPW Low	0.005	-0.093	0.566**	0.450*	-0.096	-0.421	ATE-AIPW Low	-0.517***	-0.584***	-0.851***	-1.001***	-1.103***	-1.581***
Pradue High=Low       0.009       0.291       0.006       0.000       0.032       0.000       0.032       0.000       0.032       0.000       0.032       0.000       0.032       0.000       0.032       0.000       0.032       0.000       0.032       0.000       0.032       0.001       0.002       0.001       0.001       0.002       0.001		(0.066)	(0.130)	(0.253)	(0.267)	(0.265)	(0.341)		(0.091)	(0.076)	(0.103)	(0.118)	(0.146)	(0.161)
Arg_(trade) in countries above cutoff       0.364       0.799       1.292       1.783       2.315       2.970       Arg_(trade) in countries above cutoff       0.345       0.734       1.205       1.700       2.183       2.727         Arg_(trade) in countries above cutoff       0.0181       0.253       0.593       1.405       1.405       1.855         Panel c: Mining	P-value High=Low	0.009	0.291	0.006	0.000	0.756	0.359	P-value High=Low	0.000	0.004	0.000	0.032	0.000	0.000
Arg_(trade) in countries below cutoff       0.181       0.253       0.593       1.065       1.405       1.855         Panel c: Mining	Avg.(trade) in countries above cutoff	0.364	0.799	1.292	1.783	2.315	2.970	Avg.(trade) in countries above cutoff	0.345	0.734	1.205	1.700	2.183	2.727
Panel c: Mining           ATE-AIPW High         0.004         0.074***-0.971***-1.980***-2.426***           ATE-AIPW Law         0.0233         (0.323)         (0.324)         (0.214)         (0.214)         (0.214)         (0.214)         (0.214)         (0.214)         (0.214)         (0.214)         (0.214)         (0.214)         (0.214)         (0.214)         (0.214)         (0.214)         (0.214)         (0.214)         (0.214)         (0.214)	Avg.(trade) in countries below cutoff	0.181	0.253	0.593	1.065	1.405	1.855	Avg.(trade) in countries below cutoff	0.006	0.006	0.050	0.175	0.359	0.541
Particle 2: Mining       -0.004       -0.794***       -0.087***       -1.987***       -1.980***       -2.426***         MTE-AIPW High       -0.014       (0.185)       (0.232)       (0.185)       (0.242)       (0.309)       (0.300)       (0.300)       (0.344)       (0.104)       (0.145)       (0.202)       (0.231)       (0.277)       (0.331)         ATE-AIPW High       -0.026       (0.196)       (0.000       0.000       0.000       (0.144)       (0.145)       (0.202)       (0.248)       (0.227)       (0.321)         Avg(trade) in countries above cutoff       0.000	Banal as Mining							Banal as Mining						
ATE-AIPW High $40.04 + 0.094^{-0} + 0.094^{-0} + 0.094^{-0} + 0.090^{-0} + 0.000^{-0} + $	ATE ADW High	0.004	0.704***	0.071***	1.007***	1 090***	2.426888	ATE ADW High	0.926888	1 160888	2 170***	0 <i>477</i> ***	2 2298888	2 155***
ATE-AIPW Low $(0.123)^{-0}$ $(0.133)^{-0}$ $(0.242)^{-0}$ $(0.233)^{-0}$ $(0.143)^{-0}$ $(0.248)^{-0}$ $(0.248)^{-0}$ $(0.248)^{-0}$ $(0.248)^{-0}$ $(0.248)^{-0}$ $(0.248)^{-0}$ $(0.248)^{-0}$ $(0.310)^{-0}$ $(0.31)^{-0}$ $(0.31)^{-0}$ $(0.32)^{-0}$ $(0.444)^{-0}$ $(0.444)^{-0}$ $(0.444)^{-0}$ $(0.444)^{-0}$ $(0.444)^{-0}$ $(0.444)^{-0}$ $(0.448)^{-0}$ $(0.248)^{-0}$ $(0.248)^{-0}$ $(0.248)^{-0}$ $(0.248)^{-0}$ $(0.248)^{-0}$ $(0.248)^$	ATE-AIF W High	-0.004	-0.794	-0.971+++	-1.08/****	-1.980***	-2.420+++	ATE-AIF W High	-0.820+++	-1.109+++	-2.1/9+++	-2.077+++	-3.228+++	-5.155****
Albest       0.000       0.001       0.121       0.003       0.021       0.003       0.021       0.021       0.024       0.0248	ATE AIDWI ow	0.407**	0.655***	1 219***	1 999***	2 205***	2 2/2***	ATE AIDW Low	1 1/2***	1 211***	1 270***	1 916***	2 712***	2 251***
P-value High=Low         (0.022)         (0.101)         (0.203)         (0.303)         (0.304)         (0.304)         (0.324)         (0.124)         (0.000         (0.000         (0.000         (0.000         (0.000         (0.000         (0.000         (0.000         (0.000         (0.014)         (0.124)         (0.124)         (0.124)         (0.124)         (0.124)         (0.124)         (0.124)         (0.014)         <	ATE-AII W LOW	(0.222)	(0.161)	(0.266)	(0.202)	(0.252)	(0.406)	ATE-AII W LOW	(0.124)	(0.152)	(0.186)	(0.248)	(0.287)	(0.424)
Pranel might Low       0.000 <th>P value High-Low</th> <th>0.000</th> <th>0.206</th> <th>0.106</th> <th>0.000</th> <th>0.000</th> <th>0.000</th> <th>P value High-Low</th> <th>0.004</th> <th>0.697</th> <th>0.000</th> <th>0.000</th> <th>0.010</th> <th>0.704</th>	P value High-Low	0.000	0.206	0.106	0.000	0.000	0.000	P value High-Low	0.004	0.697	0.000	0.000	0.010	0.704
Arg:(trade) in countries above cutoff       0.001       1.000       1.0111       1.010       1.010 </th <th>Avg (trade) in countries above outoff</th> <th>0.000</th> <th>1.050</th> <th>1 947</th> <th>2.766</th> <th>2 722</th> <th>4.686</th> <th>Avg (trade) in countries above sutoff</th> <th>0.004</th> <th>1 275</th> <th>2 1 2 9</th> <th>2.074</th> <th>4.044</th> <th>5.004</th>	Avg (trade) in countries above outoff	0.000	1.050	1 947	2.766	2 722	4.686	Avg (trade) in countries above sutoff	0.004	1 275	2 1 2 9	2.074	4.044	5.004
Argentiate/information       Argentiate/information       Argentiate/information       Argentiate/information       Argentiate/information       Argentiate/information         Panel d: Manufacturing       ATE-AIPW Ligh $0.554^{+++}$ $1.074^{+++}$ $2.147^{+++}$ $2.499^{+++}$ $3.571^{+++}$ $0.622$ $0.623$	Avg.(trade) in countries below cutoff	-0.000	-0.153	-0.065	-0.019	-0.073	0.047	Avg.(trade) in countries below cutoff	0.013	-0.190	-0.033	0.203	0.499	0.635
Panel d: Manufacturing ATE-AIPW High         -0.554*** -1.074*** -2.147*** -2.499*** -3.146*** -3.571***         Panel d: Manufacturing ATE-AIPW High         -1.538*** -2.314*** -2.946*** -4.364*** -4.606*** -3.002*           ATE-AIPW High         -0.554*** -1.916*** -2.19*** -1.916*** -2.219*** -3.191*** -4.404*** -5.756***         (0.282)         (0.368)         (0.511)         (0.639)         (0.764)         (0.923)           ATE-AIPW Low         -1.673*** -1.916*** -2.219*** -3.191*** -4.404*** -5.756***         (0.282)         (0.368)         (0.511)         (0.639)         (0.764)         (0.932)           P-value High=Low         0.000         0.000         0.009         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.0200         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.021         0.0271         0.315         0.319         0.252         0.343         0.446         0.438         0.193         1.638         Arg.(trade) in countries above cutoff         0.028         0.0255         0.337         0.275 <td< th=""><td>rigi(trade) in countries below cuton</td><td>0.077</td><td>0.125</td><td>0.005</td><td>0.017</td><td>0.075</td><td>0.017</td><th>rigi(trade) in countries below cuton</th><td>0.015</td><td>0.170</td><td>0.055</td><td>0.275</td><td>0.177</td><td>0.055</td></td<>	rigi(trade) in countries below cuton	0.077	0.125	0.005	0.017	0.075	0.017	rigi(trade) in countries below cuton	0.015	0.170	0.055	0.275	0.177	0.055
ATE-AIPW High         -0.554***         -1.074***         -2.147***         -2.499***         -3.146***         -3.571***           MTE-AIPW High         (0.242)         (0.242)         (0.232)         (0.426)         (0.519)         (0.622)           ATE-AIPW Low         -1.653***         -2.19***         -3.191***         -4.064***         -5.756***           ATE-AIPW Low         0.0221)         (0.242)         (0.313)         (0.428)         (0.529)         (0.611)         (0.639)           Avg.(trade) in countries above cutoff         0.000 <td< th=""><th>Panel d: Manufacturing</th><th></th><th></th><th></th><th></th><th></th><th></th><th>Panel d: Manufacturing</th><th></th><th></th><th></th><th></th><th></th><th></th></td<>	Panel d: Manufacturing							Panel d: Manufacturing						
o         (0.133)         (0.242)         (0.322)         (0.426)         (0.622)         (0.622)         (0.282)         (0.368)         (0.511)         (0.691)         (0.932)           ATE-AIPW Low         -1.673*** -1.916*** -2.219*** -3.919*** -4.404*** -5.756***         -0.6711         (0.322)         (0.282)         (0.368)         (0.511)         (0.691)         (0.624)         (0.932)           Arg.trade in countries above cutoff         0.000         <	ATE-AIPW High	-0.554***	-1.074***	-2.147***	-2.499***	-3.146***	-3.571***	ATE-AIPW High	-1.538***	-2.314***	-2.946***	-4.364***	-4.606***	-3.002***
ATE-AIPW Low       -1.673***       -1.916***       -2.219***       -3.191***       -4.404***       -5.756***       ATE-AIPW Low       -4.558***       -5.753***       -6.005***       -5.682***       -6.911***       -9.234*         P-value High=Low       0.000       0.000       0.009       0.009       0.000		(0.133)	(0.242)	(0.322)	(0.426)	(0.519)	(0.622)		(0.282)	(0.368)	(0.511)	(0.639)	(0.764)	(0.932)
(0.21)         (0.245)         (0.313)         (0.428)         (0.542)         (0.671)           P-value High=Low         0.000         0.00	ATE-AIPW Low	-1.673***	-1.916***	-2.219***	-3.191***	-4.404***	-5.756***	ATE-AIPW Low	-4.558***	-5.753***	-6.005***	-5.682***	-6.911***	-9.234***
P-value High=Low         0.000		(0.221)	(0.245)	(0.313)	(0.428)	(0.542)	(0.671)		(0.344)	(0.418)	(0.529)	(0.691)	(0.846)	(1.043)
Avg.(trade) in countries above cutoff       1.249       2.744       4.460       6.287       8.086       10.057         Avg.(trade) in countries above cutoff       0.620       0.815       1.319       2.052       2.706       3.430         Avg.(trade) in countries above cutoff       0.620       0.815       1.319       2.052       2.706       3.430         Panel       Services       Panel       Services       Panel       Services       Panel       Services       Panel       Services	P-value High=Low	0.000	0.000	0.701	0.009	0.000	0.000	P-value High=Low	0.000	0.000	0.000	0.000	0.000	0.000
Arg_(trade) in countries below cutoff       0.620       0.815       1.319       2.052       2.706       3.430         Arg_(trade) in countries below cutoff       0.620       0.815       1.319       2.052       2.706       3.430         Arg_(trade) in countries below cutoff       0.085       0.015       1.319       2.052       2.706       3.430         Arg_(trade) in countries below cutoff       0.081       0.115       0.215       -0.006       -0.905       -0.905       -0.906       -0.907       -0.109       1.077       2.466         Arg_(trade) in countries below cutoff       0.015       0.015       0.0260       0.0240       (0.024)       0.0140       (0.027)       0.0162       (0.0194)       (0.0231)       (0.2210)	Avg.(trade) in countries above cutoff	1.249	2.744	4.460	6.287	8.086	10.057	Avg.(trade) in countries above cutoff	2.254	4.930	7.800	10.639	13.497	16.585
Panel e: Services         Panel e: Services           ATE-AIPW High         -0.315*** -0.179         -0.182         0.215         -0.006         -0.169           (0.083)         (0.145)         (0.208)         (0.296)         (0.342)         (0.416)           ATE-AIPW Low         -1.320*** -1.533*** -2.148*** -2.581***         -2.202***         ATE-AIPW Low         -0.169           (0.084)         (0.138)         (0.194)         (0.295)         (0.342)         (0.416)           P-value High=Low         0.000         0.000         0.000         0.000         0.000         0.000           Arg.(trade) in countries above cutoff         0.236         0.342         5.199         6.412           Arg.(trade) in countries below cutoff         0.236         0.578         0.976         1.406         1.896           Observations         627         627         627         627         627         627	Avg.(trade) in countries below cutoff	0.620	0.815	1.319	2.052	2.706	3.430	Avg.(trade) in countries below cutoff	-0.086	-0.905	-0.976	-0.190	1.077	2.466
Panel:         Services         Panel:         Services         Panel:         Services         Panel:         Services         Panel:         Services         Servicres         Services         Serv														
ATE-AIPW High         -0.315***         -0.179         -0.182         0.215         -0.006         -0.16         ATE-AIPW High         -0.436***         -0.620***         -0.620***         -0.620***         -0.520***         -0.520**         -0.537         -0.275           ATE-AIPW Low         -1.320***         -1.30***         -0.286         -0.342         -0.416         -0.275         -0.276         -0.275         -0.275         -0.276         -0.206         -0.206	Panel e: Services							Panel e: Services						
ATE-AIPW Low         (0.083)         (0.145)         (0.296)         (0.329)         (0.245)         (0.216)         (0.077)         (0.126)         (0.149)         (0.211)         (0.372)         (0.316)           ATE-AIPW Low         (1.320***+1.533***+2.148***+2.581***+4.202***         (0.362)         (0.177)         (0.126)         (0.149)         (0.211)         (0.272)         (0.316)           P-value High=Low         0.000	ATE-AIPW High	-0.315***	-0.179	-0.182	0.215	-0.006	-0.169	ATE-AIPW High	-0.436***	-0.620***	-0.648***	-0.580**	-0.373	-0.275
ATE-AIPW Low         -1.320***         -1.333***         -1.48***         -2.581***         -2.281***         -2.202***           MTE-AIPW Low         (0.084)         (0.183)         (0.191)         (0.249)         (0.235)         (0.362)         (0.091)         (0.133)         (0.183)         (0.122)         (0.246)         (0.280)           P-value High=Low         0.000         0.00		(0.083)	(0.145)	(0.208)	(0.296)	(0.342)	(0.416)		(0.077)	(0.126)	(0.194)	(0.231)	(0.272)	(0.316)
(0.084)         (0.138)         (0.191)         (0.249)         (0.259)         (0.362)         (0.091)         (0.133)         (0.189)         (0.222)         (0.246)         (0.280)           P-value High=Low         0.000	ATE-AIPW Low	-1.320***	-1.303***	-1.553***	-2.148***	-2.581***	-4.202***	ATE-AIPW Low	-1.104 ***	-1.659***	-1.854***	-2.084***	-2.299***	-3.171***
P-value High=Low         0.000		(0.084)	(0.138)	(0.191)	(0.249)	(0.295)	(0.362)		(0.091)	(0.133)	(0.189)	(0.222)	(0.246)	(0.280)
Arg_(trade) in countries above cutoff         0.918         1.877         2.97         4.102         5.199         6.412         Arg_(trade) in countries above cutoff         0.707         1.511         2.341         3.209         4.082         5.002           Arg_(trade) in countries above cutoff         0.236         0.342         0.578         0.976         1.406         1.896         Arg_(trade) in countries above cutoff         0.007         1.511         2.341         3.209         4.082         5.002           Observations         627 <th>P-value High=Low</th> <th>0.000</th> <th>0.000</th> <th>0.000</th> <th>0.000</th> <th>0.000</th> <th>0.000</th> <th>P-value High=Low</th> <th>0.000</th> <th>0.000</th> <th>0.000</th> <th>0.000</th> <th>0.000</th> <th>0.000</th>	P-value High=Low	0.000	0.000	0.000	0.000	0.000	0.000	P-value High=Low	0.000	0.000	0.000	0.000	0.000	0.000
Avg.(trade) in countries below cutoff         0.236         0.342         0.578         0.976         1.406         1.896         Avg.(trade) in countries below cutoff         0.008         -0.137         -0.202         0.060         0.287         0.660           Observations         627	Avg.(trade) in countries above cutoff	0.918	1.877	2.972	4.102	5.199	6.412	Avg.(trade) in countries above cutoff	0.707	1.511	2.341	3.209	4.082	5.002
Observations         627 <t< th=""><th>Avg.(trade) in countries below cutoff</th><th>0.236</th><th>0.342</th><th>0.578</th><th>0.976</th><th>1.406</th><th>1.896</th><th>Avg.(trade) in countries below cutoff</th><th>0.008</th><th>-0.137</th><th>-0.202</th><th>0.060</th><th>0.287</th><th>0.660</th></t<>	Avg.(trade) in countries below cutoff	0.236	0.342	0.578	0.976	1.406	1.896	Avg.(trade) in countries below cutoff	0.008	-0.137	-0.202	0.060	0.287	0.660
	Observations	627	627	627	627	627	627	Observations	627	627	627	627	627	627
# of Crises 18 18 18 18 18 18 # of Crises 18 18 18 18 18 18	# of Crises	18	18	18	18	18	18	# of Crises	18	18	18	18	18	18
Cutoff of channel variable, median         -3.509         -3.	Cutoff of channel variable, median	-3.509	-3.509	-3.509	-3.509	-3.509	-3.509	Cutoff of channel variable, median	-3.509	-3.509	-3.509	-3.509	-3.509	-3.509

Notes: Robust standard errors clustered at the country-level in parentheses.\* p < 0.1, \*\* p < 0.05, \*\*\* p < 0.01. IPW estimates. The dependent variables are 100 times the cumulative change of agricultural, mining, manufacturing, services, and total exports and imports relative to the year prior to the onset of the crisis for years 1-5 after the onset of the crisis, scaled pre-crisis GDP. Accumulated costs over five years. Observations in the treated and control groups are weighted by the propensity scores predicted in the treatment model. Maximum weights truncated at 10.