

# China's debt relief actions overseas: Patterns, interactions with other creditors, and macro implications

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\* The views expressed in this presentation are our own and not necessarily those of the Bank for International Settlements and other institutions.

### Introduction

- Move from China as a sovereign lender to China as a debt relief provider
- Insight from recent case studies (Bon and Cheng (2020)) and a new database
- Aim to extract structured evidence on the patterns and macro impact of Chinese restructurings overseas with a focus on
  - Restructuring terms
  - Interactions between China and other creditors







# 1. Data and stylised facts

### A new database of China's debt relief actions in 2000-2019

#### **Building blocs of our database**

140 restructuring cases between 2000 and 2019 in 64 countries, 125 cases used for stylised facts and empirical analysis



#### Towards debt rescheduling in recent years

2020

Graph 3

USD bn

20

15

10

### Interactions between China and other creditors

- China's debt relief has been a complement with / substitute to that of the Paris Club in 2000-2019
- The size of Chinese restructurings has been dwarfed by other creditors' actions
- In a four-year window, 1/3 of Chinese restructurings were accompanied by a Paris Club treatment, with a principal haircut more likely
- The interactions between China and private creditor were less obvious



Occurrence of Paris Club and private restructurings around a Chinese debt relief



**BIS** <sup>1930</sup> 2020

### Interactions with IMF programmes

- More than half of observations were accompanied by the start of an IMF programme in either the same year or one year after the restructuring
- Debt forgiveness was mostly associated with IMF PRGF
- IMF EFF was exclusively associated with debt rescheduling cases
- Countries with an IMF SBA registered the highest face-value reduction from China, on average 3.06% of GDP

Number of cases						Table 6	
		Debt forgiveness				Debt rescheduling	
		Principal haircut		Arrears cancellation			
Extended Credit Facility (ECF)		1		5		2	
Extended Fund Facility (EFF)		0		0		6	
Poverty Reduction and Growth Facility (PRGF)		34		4		2	
Policy Support Instrument (PSI)		2		5		1	
Stand-By Arrangement (SBA)		3		0		0	
Total		40		14		11	
Size of debt relief and IN	/IF programm	es <sup>1</sup>				Table 7	
	Total sample	with IMF	PRGF	ECF&EFF	SBA	PSI	
Total debt treated (% GDP)	1.95	1.57	0.91	3.98	3.06	2.83	
	(4.320)	(3.323)	(1.044)	(5.826)	(4.847)	(6.104)	
Face-value reduction (% GDP)	1.15	0.79	0.91	0.07	3.06	0.28	
	(3.217)	(1.368)	(1.046)	(0.168)	(4.847)	(0.216)	
Observations	115	62	40	18	3	6	

Chinese debt restructurings and IMF financial assistance

<sup>1</sup> Mean coefficients with standard deviation in parentheses. PRGF = Poverty Reduction and Growth Facility; ECF = Extended Credit Facility; EFF = Extended Fund Facility; SBA = Stand-By Arrangement; PSI = Policy Support Instrument.

Source: authors' calculations.



# 2. Empirical strategy and results

## Methodology – Local projection (Jordà 2005)

- We study causal effects of Chinese restructurings on recipient countries' economy  $\Delta Y_{i,t+h}$ 
  - $= \alpha_{i,h} + \beta_h China_{i,t} + \Phi_h(L) \Delta Y_{i,t} + \Psi_h(L) X_{i,t} + \theta_h IMF_{i,t\pm s} + \eta_h Paris_{i,t\pm s} + \zeta_h Private_{i,t\pm s} + \mu_{i,t,h}$
  - h-step direct forecast controlling for dynamic feedback effects
  - $\Delta Y_{i,t+h}$  is the cumulative change in  $Y_{i,t}$ , since the shock up to time t + h;  $\Phi_h(L)$  include two lags of the dependent variable
  - China<sub>i,t</sub> is the treatment effect for Chinese restructuring
- Testing the effects of different restructuring terms: principal haircut, arrears cancellation and debt rescheduling
- Dealing with endogeneity
  - Narrative approach Reinhart and Trebesch (2016) and Cheng et al. (2018, 2019)
  - Empirical approach Augmented Inverse Probability Weighting

### Growth prospects after a Chinese debt restructuring

- Both real GDP growth and per capita real GDP growth seem to deteriorate after a Chinese restructuring
- Faint and short-lived improvements in debt forgiveness cases
- Worst performance associated with debt rescheduling cases
- In a stark contrast with Reinhart and Trebesch (2016) and Cheng et al (2018, 2019)
- Sample too small? China's relief too limited?







## Macro channels of transmission

- Fixed capital investment tumbled, especially in debt rescheduling cases by 5% of GDP
- Fiscal tightening in debt forgiveness cases, with a surge in fiscal surplus for debt rescheduling cases in year 4
  - Related to IMF programme requirements?
- Trade balance improvements largely contributed to GDP growth
  - Imports and exports may react differently



## Debt dynamics after the restructuring

- Are debt issues solved?
  - Debt stock and debt service reduced?
  - New financing still flowing in?
- Fall in debt stock and decrease in debt service costs for arrears cancellation cases
- Debt stock on the rise with high debt service costs for rescheduling cases
- China's credit still flows in for forgiveness cases but contracted by 5% for rescheduling cases (also more recent cases 2010-2019)





# Conclusion

### Avenues for future studies

- Other possible macro channels of transmission?
  - Domestic consumption? Exchange rates?
- Further distinction between different Chinese lenders providing debt relief or new financing
  - Government vs policy banks vs. commercial banks
- Alternative methods to evaluate Chinese interventions?
  - Synthetic control method
- Digging into the rationale for debt relief initiatives?
  - Political motives vs economic motives?
- Future data improvement
  - More cases with the DSSI and subsequent initiatives?



#### Work cited

- Asonuma, T and C Trebesch (2016): "Sovereign debt restructurings: preemptive or post-default", Journal of the European Economic Association, 14, pp 175–214.
- Bon, G and G Cheng (2020): "A case study approach to China's sovereign debt restructurings", EconomiX Working Paper 2020–22.
- Brautigam, D and J Hwang (2016): "Eastern promises: new data on Chinese loans in Africa, 2000 to 2014", China Africa Research Initiative Working Paper 4.
- Cheng, G, J Díaz-Cassou and A Erce (2018): "Official debt restructurings and development", World Development, vol 111, no C, pp 181–195.
- Cheng, G, J Díaz-Cassou and A Erce (2019): "The macroeconomic effects of official debt restructuring: evidence from the Paris Club", Oxford Economic Papers, vol 71, no 2, pp 344–363.
- Cruces, J and C Trebesch (2014): "The price of haircuts", American Economic Journal: Macroeconomics, vol 5, no 30, pp 85–117.
- Horn, S, C Reinhart and C Trebesch (2019): "China's overseas lending", NBER Working Paper no 26050.
- Hurley, J, S Morris and G Portelance (2018): "Examining the debt implications of the Belt and Road Initiative from a Policy Perspective", Center for Global Development Policy Paper 121, March.
- Jordà, Ò (2005): "Estimation and inference of impulse responses by local projections", American Economic Review, vol 95, no 1, pp 161–182.
- Kratz, A, A Feng and L Wright (2019): "New data on the 'debt trap' question", Rhodium Group, https://rhg.com/research/new-dataon-the-debt-trap-question/
- Reinhart, C and C Trebesch (2016): "Sovereign debt relief and its aftermath", Journal of the European Economic Association, vol 14, issue 1, February.
- Rose, A (2005): "One reason countries pay their debts: renegotiation and international trade", Journal of Development Economics vol 77, pp 189–206.

