wiiw Global Economy Lecture 2020 2020

"Globalization and Pandemics"

Pol Antràs (Harvard)

Road Map

- □ Review recent trends in the global economy
 - Have we entered a phase of de-globalization?
 - Are global value chains retrenching?
- □ Study trade and GVC dynamics during the COVID-19 health crisis
- □ Discuss the interplay between globalization and pandemics
- □ Speculate on the future of globalization and of GVCs
- □ Organize the presentation around 10 points with a theoretical interlude

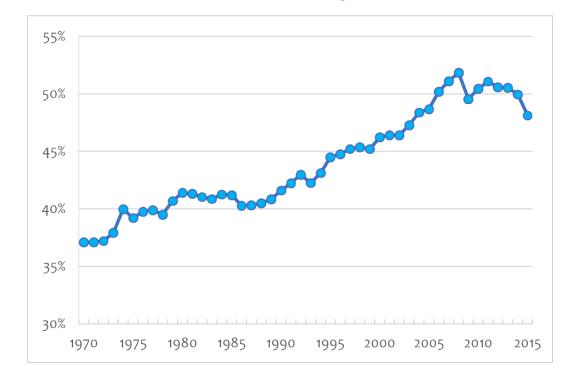
De-Globalization? The Facts

Point #1: Slowbalization not De-Globalization

Chart 1. World Trade over World GDP (1970-2018)

Source: World Bank's World Development Indicators (link)

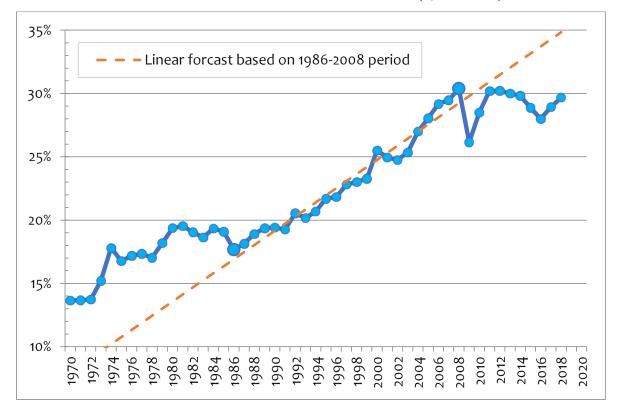




Source: Borin and Mancini (2019), as reported in World Development Report (2020)

Point #2: Slowbalization Was Inevitable

Chart 1. World Trade over World GDP (1970-2018)



Source: World Bank's World Development Indicators (link)

The Period of Hyperglobalization

Point #3: Three Key Drivers of Hyperglobalization

- 1. Technology: Information and Communication Technology Revolution
- 2. Policy: Acceleration in multilateral and regional trade liberalization
- 3. **Politics:** Political developments that brought about a remarkable increase in capitalist "labour" force
- □ Implication: Disintegration of production across borders

De-Globalization and Technological Factors



Point #4: Technology Will Continue to Foster Trade

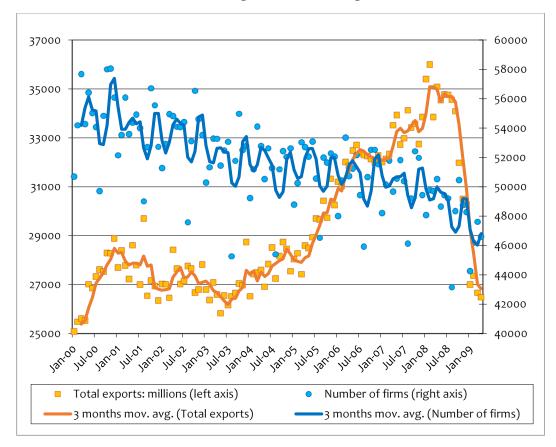
- □ The ICT revolution certainly did
- □ Significant new technological developments:
 - Automation / Industrial Robots
 - 3D Printing
 - Digital technologies
 - Open distributed ledgers (Blockchain)
- □ Although some appear to substitute for labor, they tend to generate increased demand for traded goods (e.g., automation)

Point #5: Fixed and Sunk Costs and GVC Stickiness

- Fixed costs of offshoring generate scale economies (firms rationalize global strategies)
- □ Fixed costs are also often sunk in nature
- □ This has important implications:
 - *Ex-ante* decision to offshore $\neq ex-post$ decision to reshore
 - Only persistent shocks generate large relocation

Stickiness: Evidence

Chart 9. The Extensive Margin of Trade during the Great Recession



Source: Bricongne et al. (2012, Figure 1)

De-Globalization and Policy Factors

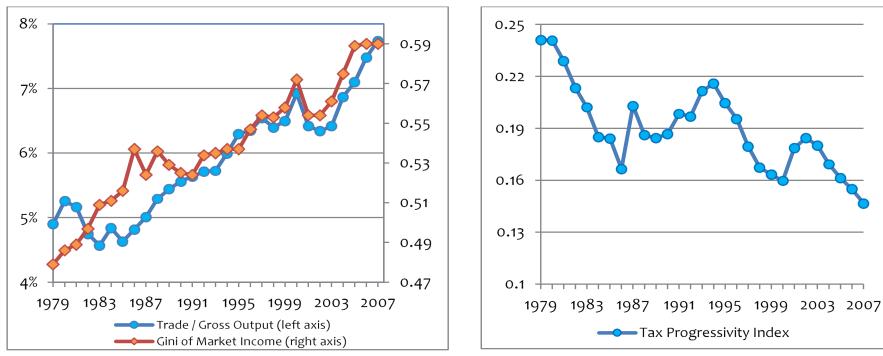


Point #6: There Are Signs of Growing Protectionism

- □ Three particularly worrisome developments:
- 1. Multilateral liberalization agenda under the umbrella of the WTO is at an impasse
- 2. Process of regional liberalization has also largely stalled, and shows signs of being in retreat (Brexit, USMCA)
- 3. Recent U.S.-China trade war

Point #7: Inequality Caused Backlash

Chart 15. Inequality and Redistribution in the United States



Panel A. U.S. Trade Openness and Gini Coefficient

Panel B. Index of U.S Tax Progressivity

Source: Antràs, de Gortari and Itskhoki (2017).

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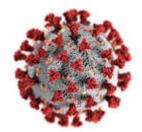
Point #8: Underlying Forces Will Not Go Away

□ We are likely to continue to see trade-induced inequality

 Automation, digital technologies might give globalization a second wind, but they will also increase inequality

Will redistribution systems to a better job of compensating the losers from globalization? Unlikely

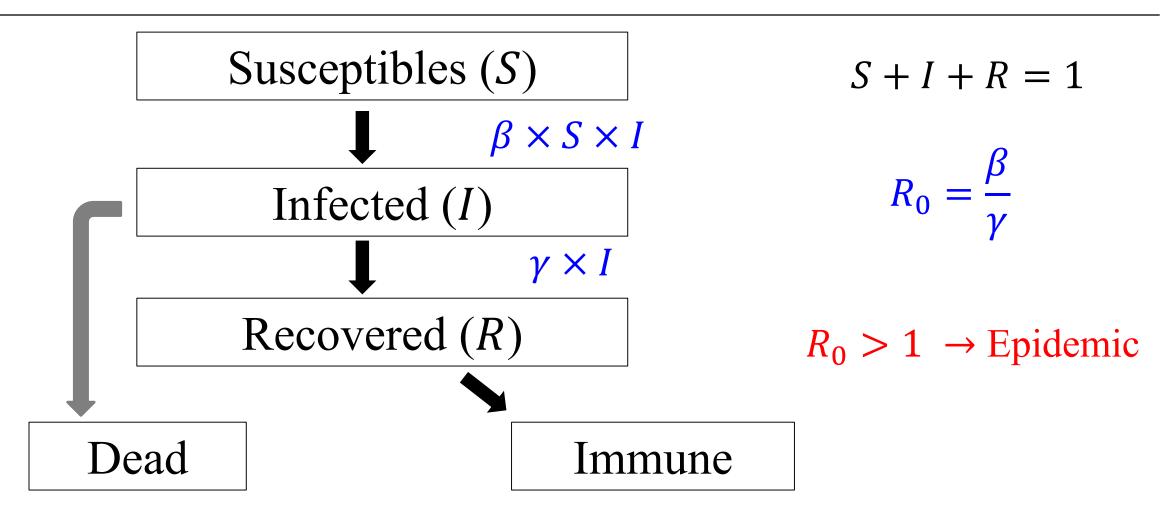
Globalization and Pandemics



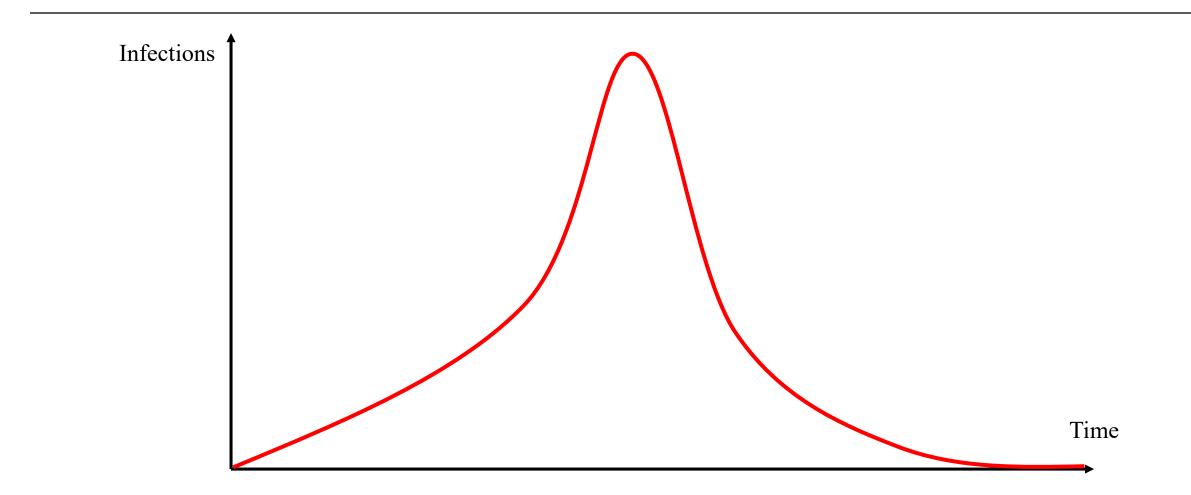
Antràs, Redding and Rossi-Hansberg (2020)

- □ What is the relationship between globalization and pandemics
 - Does globalization make societies more vulnerable to pandemics?
 - How do pandemics affect globalization (present and future)?
- We develop a model in which trade involves human interaction and human interaction transmits disease
 - Gravity model of trade
 - R_0 and disease dynamics are endogenous to trade
- Health policy externalities between countries
 - Good domestic policy may not stem an epidemic in the face of bad foreign policy
 - But (in some cases): unilateral incentive to liberalize vis à vis high-risk countries

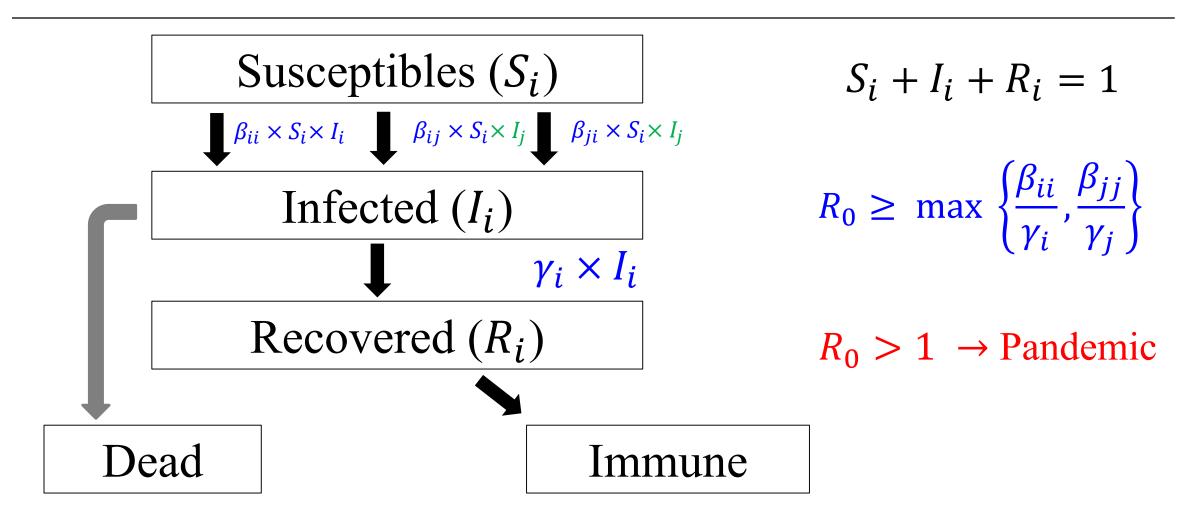
SIR Model: Closed-Economy Dynamics



SIR Model: Closed-Economy Dynamics



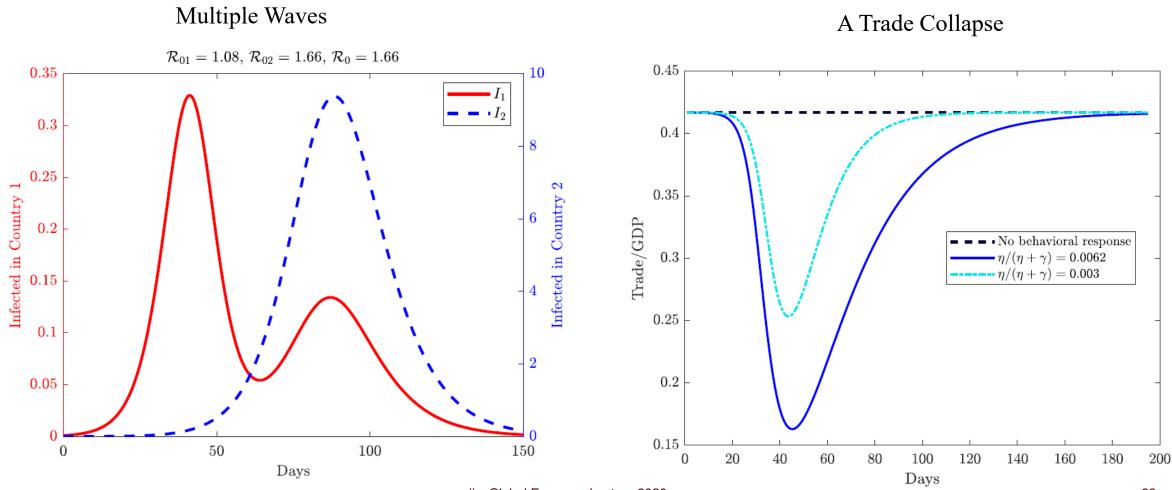
SIR Model: Open-Economy Dynamics



Four Main Results

- □ Globalization increases likelihood and severity of pandemics if countries are sufficiently symmetric
- □ Globalization reduces likelihood and severity of pandemics if countries are sufficiently asymmetric in their health environment
- Open-economy disease dynamics can exhibit multiple waves even in the absence of lockdowns or social distancing
- During a pandemic, the ratio of trade to output is expected to fall and then recover, with no long-term effects

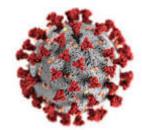
Illustrations



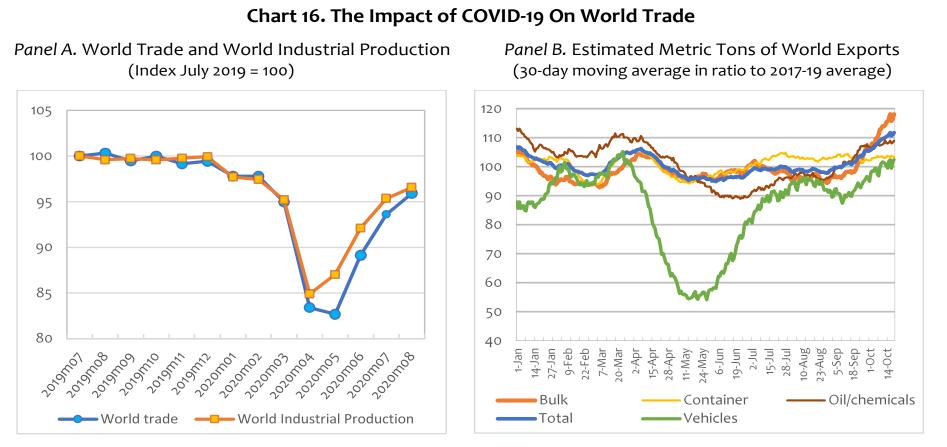
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The COVID-19 Crisis and the Future of GVCs



Point #9: COVID Halted Trade but Fast Recovery



Source: CPB World Trade Monitor (<u>link</u>)

Source: Cerdeiro, Komaromi, Liu and Saeed (2020); AIS data collected by MarineTraffic (link)

Point #10: COVID-19 and Trade in the Long Run

- Decline in face-to-face interactions is likely to persist (though obviously in a less dramatic manner)
- But technical change might make virtual interactions a better substitute for face-to-face interactions
- □ More worrisome is the political landscape post COVID
 - Diplomatic tensions ("China/Wuhan" virus), EU tensions
 - Effects of the pandemic on inequality \rightarrow populism

Conclusions

- Not obvious that world economy is de-globalizing, though there are clear signs of "slowbalization"
- Hard to conclude that technological developments or COVID-19 are likely to fuel an era of de-globalization
- Main challenge for the future of globalization is likely to be institutional and political in nature