

Osher Lifelong Learning Institute, Fall 2023 Contemporary Economic Policy

Eckerd College Fall, 2023

Jon Haveman, Ph.D. National Economic Education Delegation



1

Available NEED Topics Include:

- US Economy
- Healthcare Economics
- Climate Change
- Economic Inequality
- Economic Mobility
- Trade and Globalization
- Minimum Wages

- Immigration Economics
- Housing Policy
- Federal Budgets
- Federal Debt
- Black-White Wealth Gap
- Autonomous Vehicles
- US Social Policy



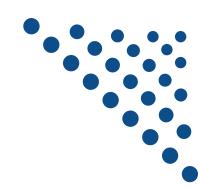




- Week 1 (10/10): Economic Update (Geoffrey Woglom Amherst College)
- Week 2 (10/17): International Institutions (Alan Deardorff U of Michigan)
- Week 3 (10/24): Economics of Immigration (Roger White Whitier College)
- Week 4 (10/31): Trade and Globalization (Avik Chakrabarti U Wisconsin Milwaukee)
- Week 5 (11/07): Economic Inequality (Roger White Whittier College)
- Week 6 (11/10): Federal Debt (Brian Peterson Lagrange College)







- A verbal Q&A session will follow this presentation.
- Slides will be available from the NEED website (https://needelegation.org/delivered_presentations.php)



4



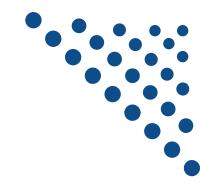
This slide deck was authored by:

- Avik Chakrabarti, University of Wisconsin-Milwaukee (UWM)
- Peter Eppinger, University of Tübingen
- James Lake, Southern Methodist University
- Michael Plouffe, University College London
- Swati Verma, ISID, New Delhi

• This slide deck was reviewed by:

- Alan Deardorff, University of Michigan
- Ed Leamer, UCLA
- Disclaimer
 - NEED presentations are designed to be nonpartisan.
 - It is, however, inevitable that the presenter will be asked for and will provide their own views.
 - Such views are those of the presenter and not necessarily those of the National Economic Education Delegation (NEED).







Trade and Globalization

OLLI – Eckerd College October 31, 2023





6



• The growing integration of the world's:

- Economies
- Cultures
- Populations

- Brought about by cross-border flows of:
 - Goods and services
 - Technology
 - Investment
 - People
 - Information







Foreign Direct Investment

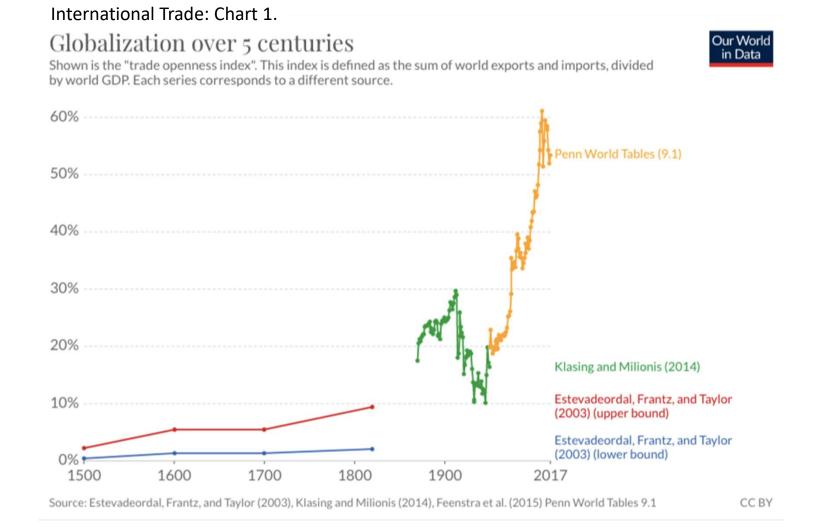
TRADE

Financial Flows

Migration

International Travel







International Trade: Chart 2. Volume of world merchandise trade, 2019Q1-2024Q4

Note: The shaded region represents both random variation and subjective assessment of risk. The dotted lines represent the confidence interval from the April 2023 trade forecast.

Source: WTO October 2023 Source: WTO and UNCTAD for historical data, WTO Secretariat estimates for forecasts.





- Reduction in Transportation Costs
- Advances in Technology
- Cooperation across Countries

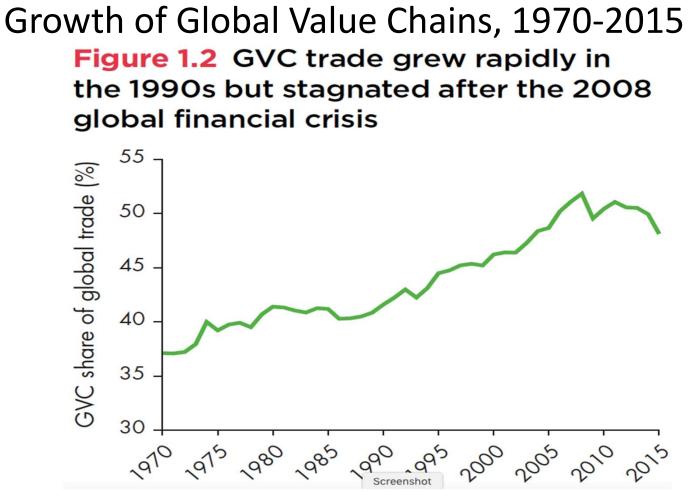




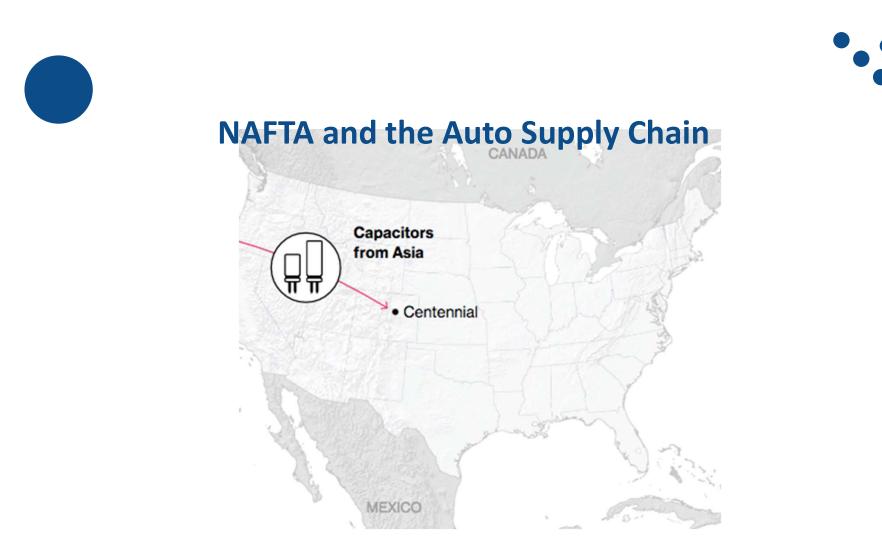


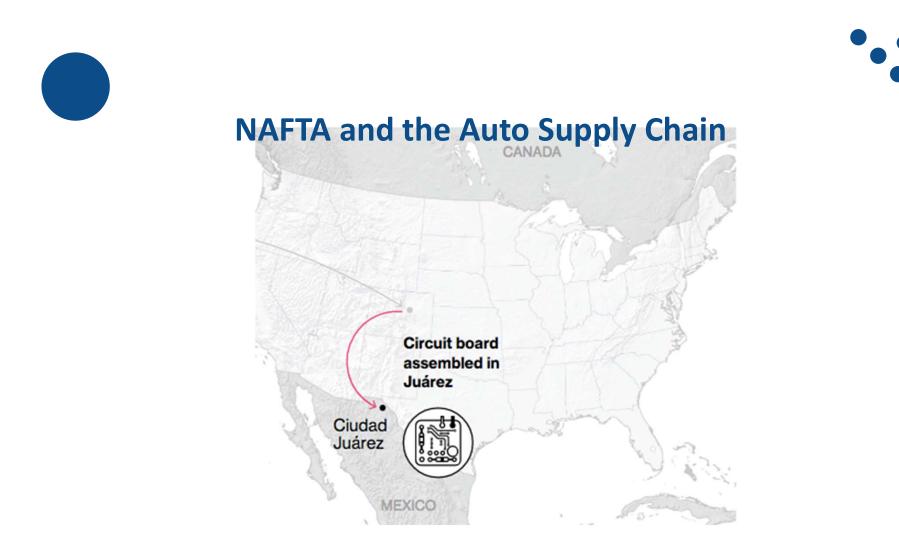
Global Value Chains (GVCs)

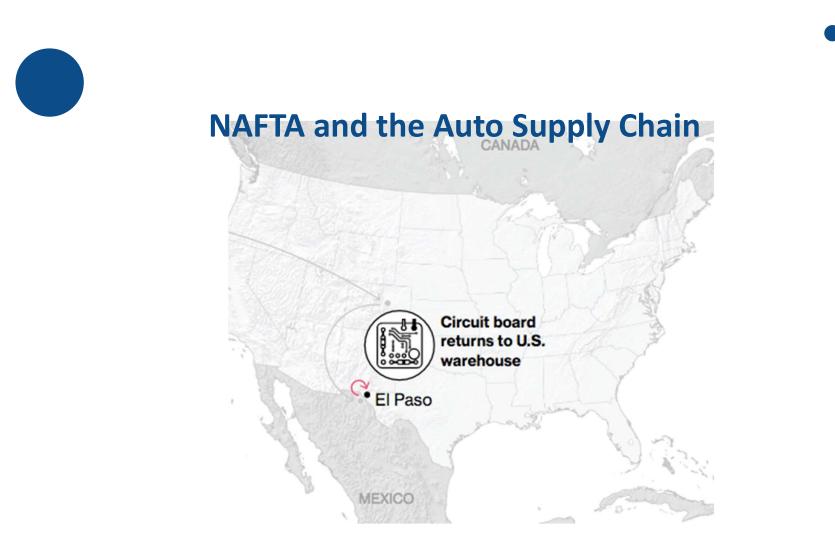


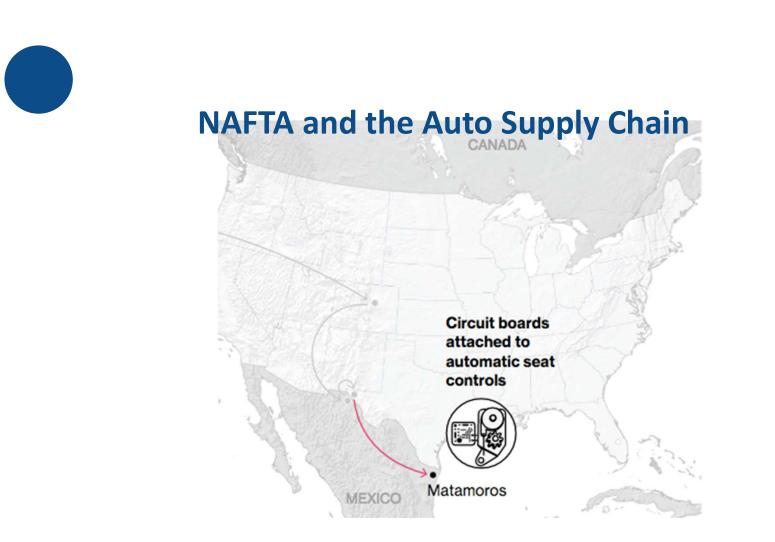


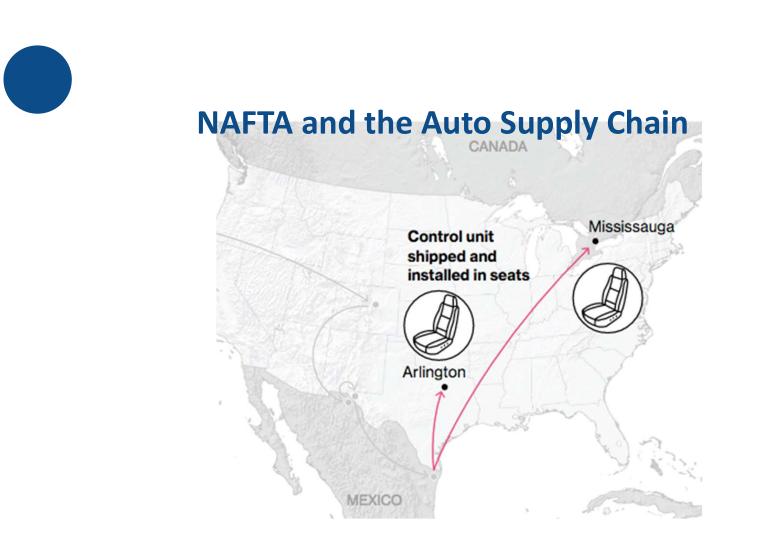
Source: World Development Report 2020



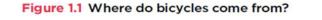


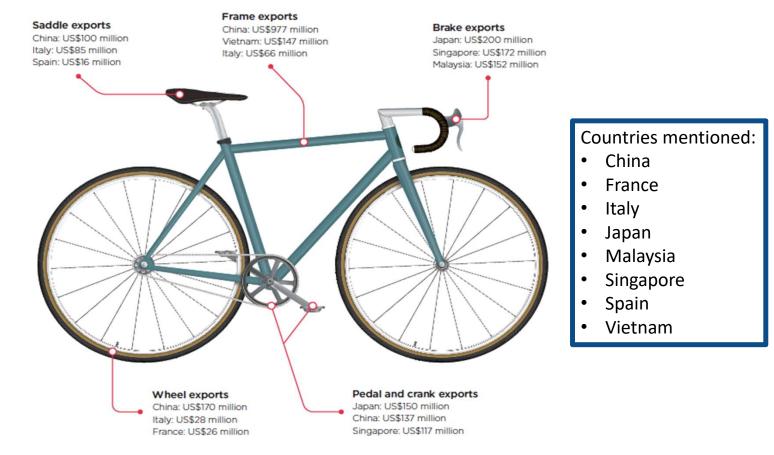












Source: World Development Report 2020





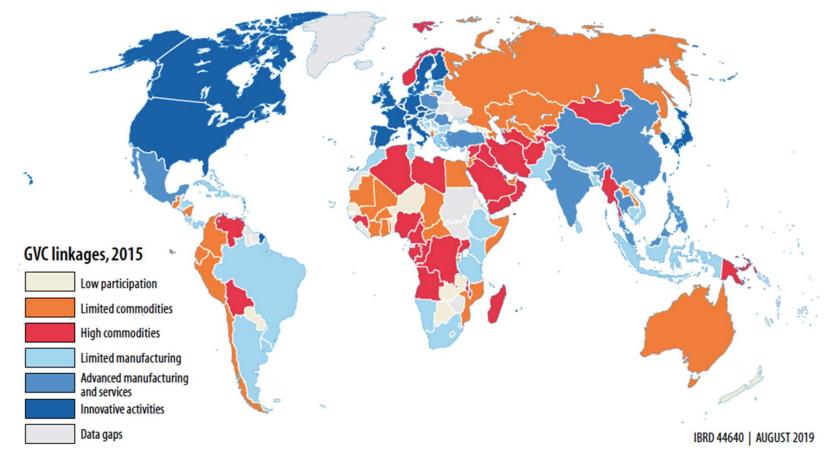
• Example: The iPhone assembled in China from parts:

Part	Come from	
Accelerometers	Germany, the US, South Korea, China, Japan, and Taiwan.	
Audio chips	US, UK, China, South Korea, Taiwan, Japan, and Singapore.	
Batteries	Samsung (South Korea), which has factories in eighty countries.	
Cameras	Qualcomm (US) and Sony (Japan), both with plants in many countries	
Chips for 3G/4G/LTE networking	Qualcomm (US)	
Compasses	AKM Semiconductor (Japan) with plants in the US, France, England, China, South Korea, and Taiwan.	
Glass screen	Corning (US) with plants in twenty-six countries.	
Gyroscopes	Switzerland	
and many more		

Source: Krueger 2020, International Trade (What Everyone Needs to Know), p. 254



NATIONAL ECONOMIC EDUCATION DELEGATION



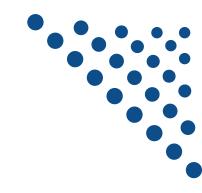
Map 1.1 All countries participate in GVCs-but not in the same way

Source: World Bank



Pros and Cons of Globalization

- Mutually Beneficial Trade
 - \circ Comparative Advantage
 - Other Sources of Gains from Trade
- Costs of Trade





Mutually Beneficial Trade based on Comparative Advantage





• The Principle of Comparative Advantage says:

- Countries can gain by
 - \circ Producing
 - More than they need of what they do relatively best, and
 - Less than they need of what they do relatively worst
 - $_{\odot}$ Exporting any excess to other countries in exchange for what they need
- All countries can
 - $_{\odot}$ Get more of everything, if that's what they want, and therefore
 - $_{\odot}$ Gain from trade



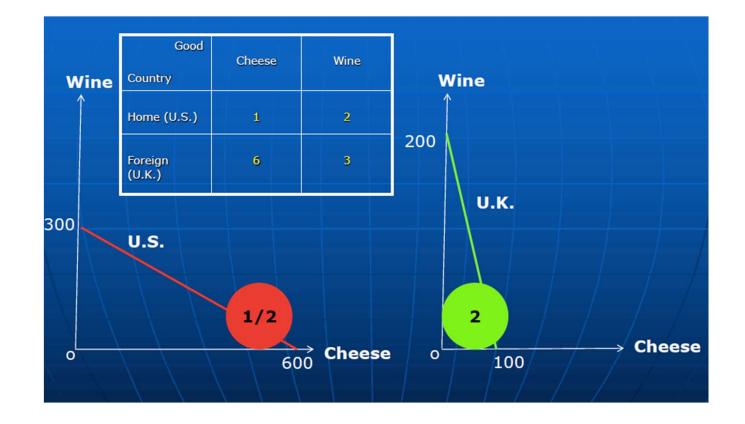
"I cannot offer any grand strategy for dealing with the aversion of intellectuals to Ricardo's difficult idea." Paul Krugman

Comparative Advantage

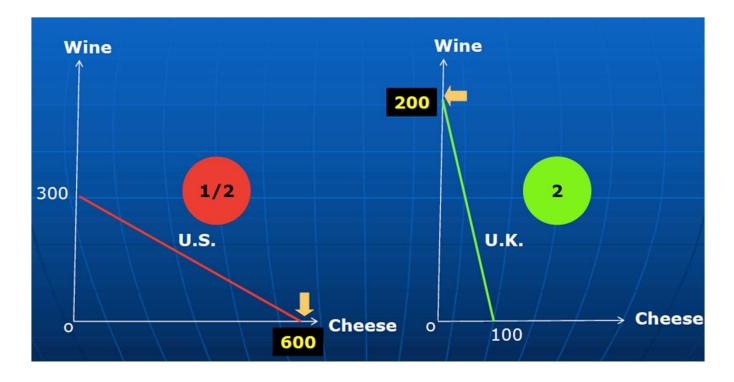
Paul Krugman's illustration of David Ricardo's Principle of Comparative Advantage

Good	Chasses	
Country	Cheese	Wine
Home (U.S.)	1	2
Foreign (U.K.)	6	3
Suppose each country	has an endowment c	of 600 hours of labor.

The Principle of Comparative Advantage

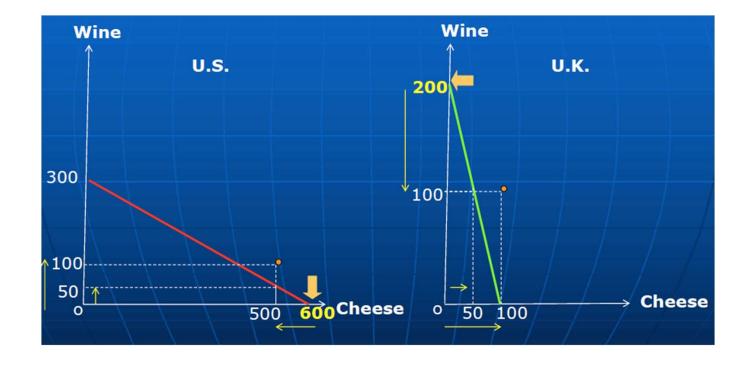






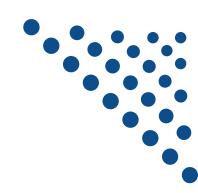












• Without a mechanism for redistribution ...

- Nothing in the theory says that everyone in each country gains
- Opening to trade requires
 - $_{\odot}$ Some industries to shrink or disappear while others expand
 - $_{\odot}$ Firms and workers in shrinking industries
 - Certainly lose during the transition
 - May be permanently worse off



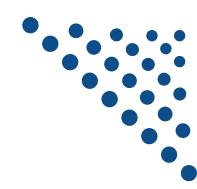




Gains from Trade Other sources of Gain from Trade







- Returns to scale (small countries can support larger firms)
- Increased competition (monopolies in small countries lose market power)
- Variety (buyers, both consumers and firms, can have more choices)
- Efficiency (relatively productive firms expand and export)
- Supply chains (firms can source parts from cheapest or best sources)
- Learning (firms can have access to foreign technology)

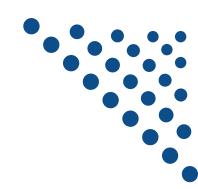


Other sources of Gain from Trade

Arkolakis, Costinot and Rodriguez-Clare "New Trade Models, Same Old Gains"

"Either the gains from trade are small for most countries or the workhorse models of trade fail to adequately capture those gains. This uncomfortable conclusion seems inevitable given recent results in quantitative trade theory."





Costs of Trade





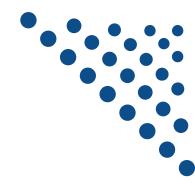
• Economic:

- When trade expands (or contracts)
 - $_{\odot}\,$ Some firms lose market share or shut down
 - \circ Other firms supplying inputs to those firms shrink or shut down
 - o Workers in <u>both</u> lose jobs
 - o And their communities lose customers
- Macroeconomic cost: Vulnerability to foreign recession/inflation
- Dependence on other countries' willingness to trade
- Vulnerability to trade disruption
 - o Crisis induced (earthquake, flood, disease, war)
 - Policy induced (sanctions, tariffs, export bans)

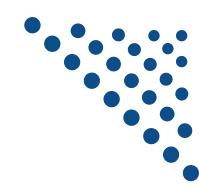
• Non-economic

- Loss of cultural differences
- Spread of invasive species and plant disease
- Spread of human disease









Trade Policies



Trade Policies that Affect Globalization

• Policies that Encourage It

- Tariff Reductions
- Trade Agreements
- Other

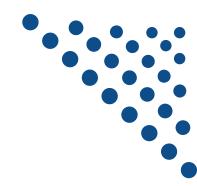
• Policies that <u>Dis</u>courage It

- Tariffs
- Trade War





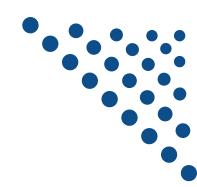




Trade Policies Encouraging Globalization

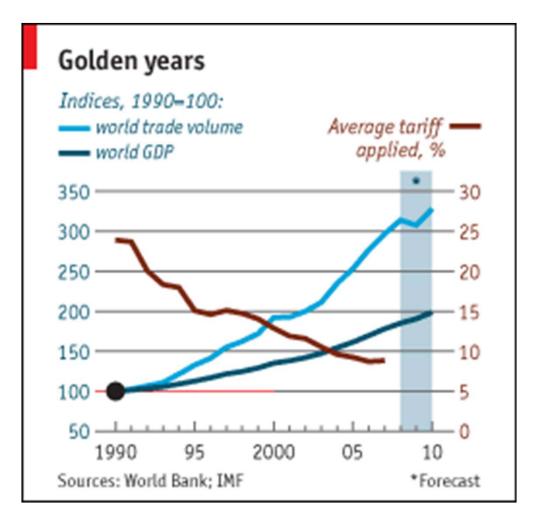




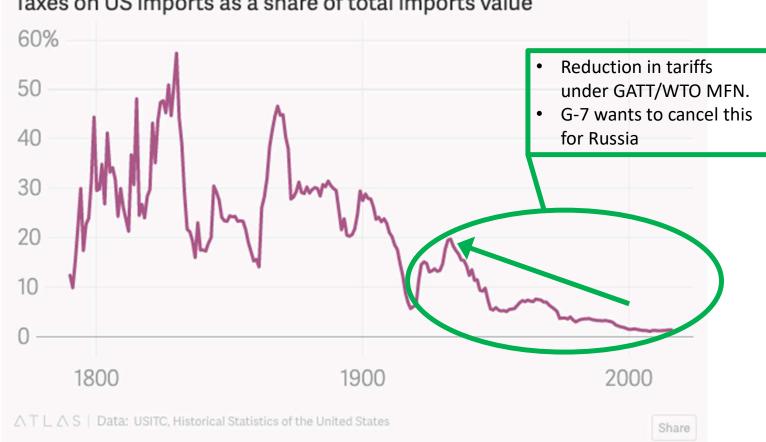


Tariff Reductions





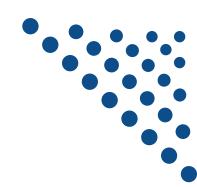
Source: Economist



Taxes on US imports as a share of total imports value

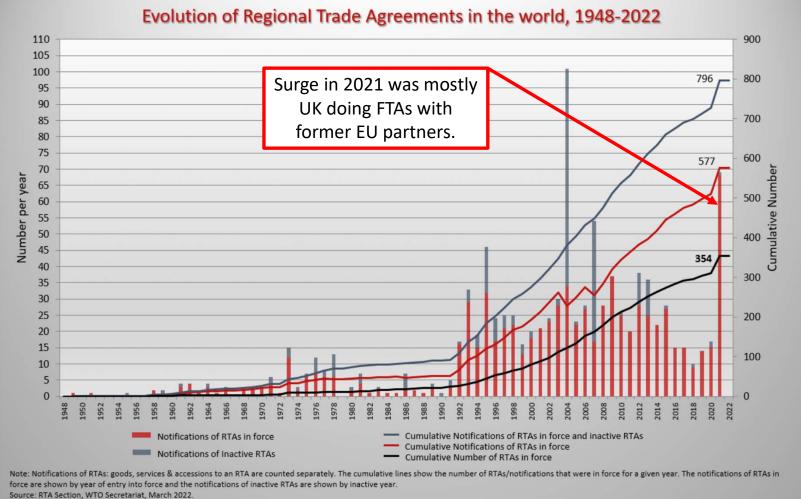
Source: Quartz 2018





Trade Agreements





Source: WTO

European Union



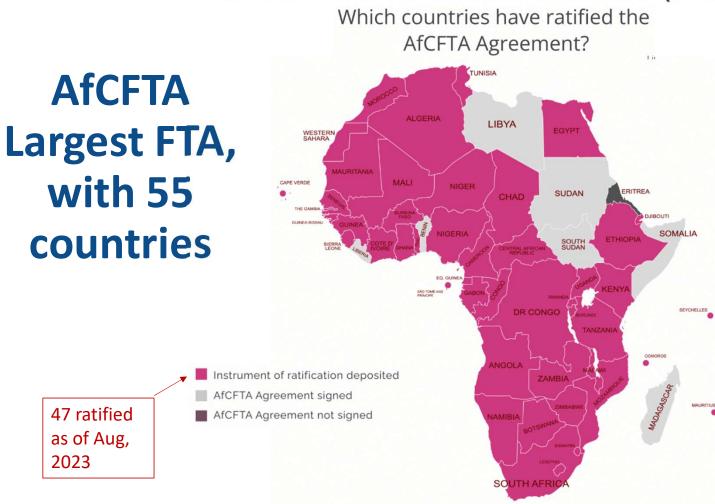
Source: Europa.eu

NAFTA (now USMCA)



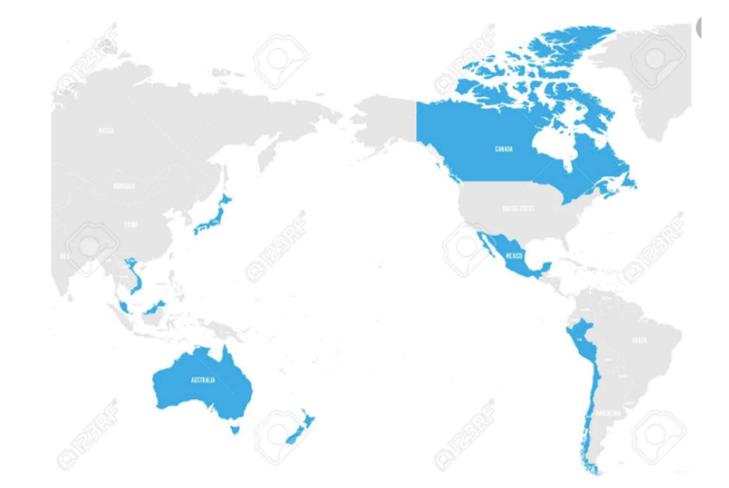
MERCOSUR





THE AFRICAN CONTINENTAL FREE TRADE AREA (AFCFTA)

CPTPP = Trans-Pacific Partnership minus US



RCEP = Regional Comprehensive Economic Partnership



Other Policies to <u>En</u>courage Globalization

• IMF/World Bank

- Policy advice to open markets (the "Washington Consensus")
- Loans to countries conditional on
 - $\circ\,$ Reducing trade barriers
 - $_{\odot}$ Permitting capital flows

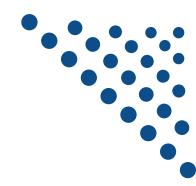
GATT/WTO (World Trade Organization)

- Negotiate reciprocal trade liberalization
- Settlement of trade disputes (usually about interfering with trade)







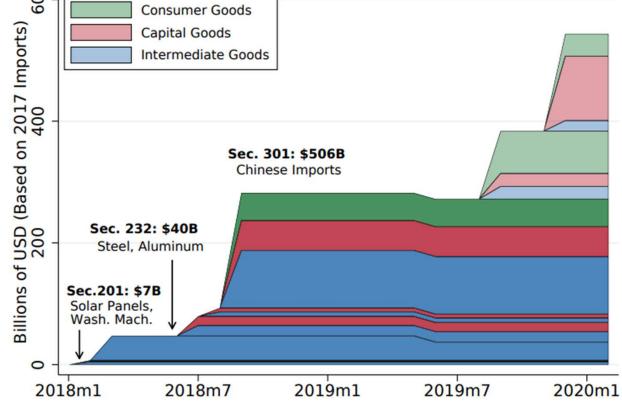


Trade Policies Discouraging Globalization





Figure B1: Composition of New U.S. Import Tariffs: 2018-2019



Source: Flaan & Pierce 2020

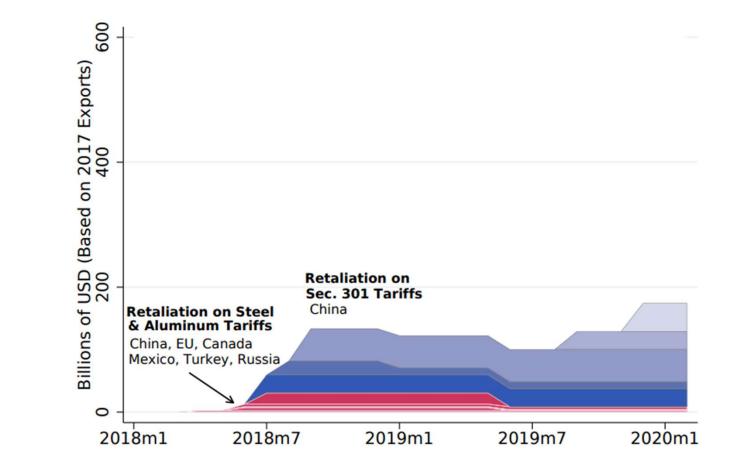
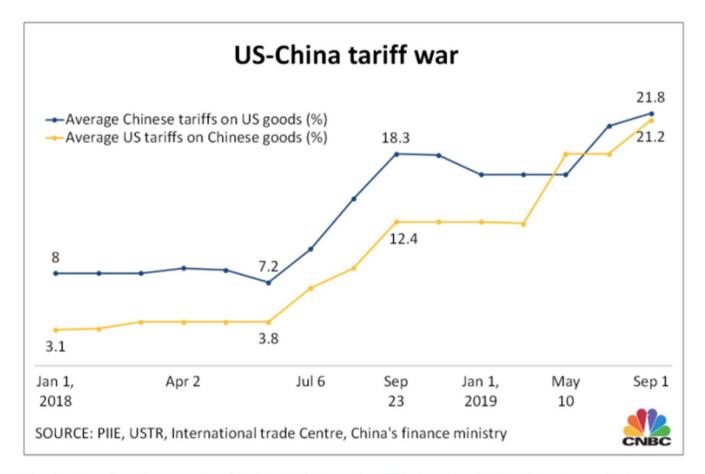


Figure 3: Timeline of Retaliatory Tariffs on U.S. Exports: 2018-2019

Source: Flaan & Pierce 2020



The first trade salvo was fired by the U.S. in early 2018, but the bilateral trade war between the U.S. and China really kicked into a higher gear in July 2018.

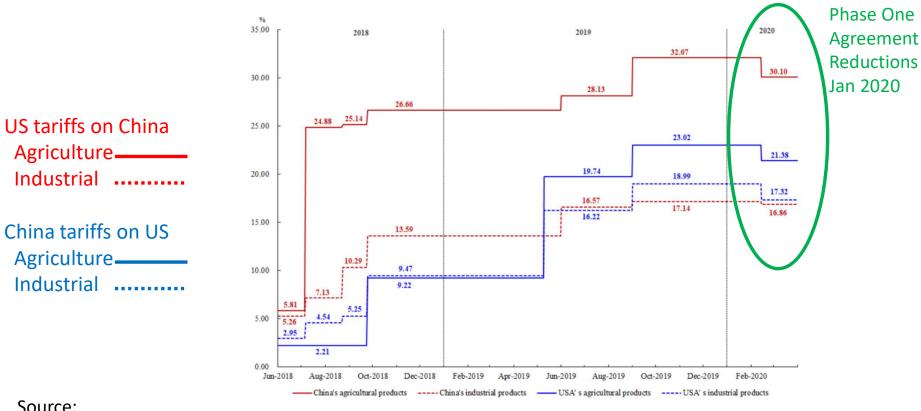
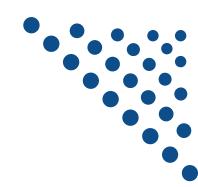


Figure 1. China-US bilateral import tariff increases, percentage points.

Source: Zheng et al. Oct 2021

Source: GTAP database and the list of additional tariffs published by China and the United States





Effects of Tariffs





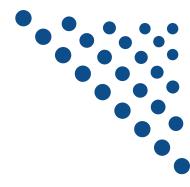
• A tariff is a tax on imports. It causes

- A rise in the price of the imported good in the importing country
- A fall in the price of the imported good in the exporting country
- The quantity imported to fall
- The revenue of the tariff-levying government to rise

• Almost always: the rise at home is much larger than the fall abroad

- That's especially true if importing country is small
- But it's also true if importing country is as large as the U.S.
- Example: President Trump's tariffs caused US prices to rise, with hardly any perceptible fall in prices abroad.



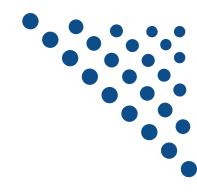




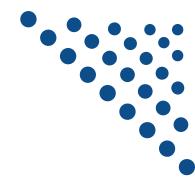
• The rise in price in the importing country causes

- A rise in price of competing goods produced there
- Benefits to those producers
- Harm to buyers of <u>both</u> the import and the competing goods
 - $\,\circ\,$ Including producers that use the higher-priced goods as inputs
 - Their prices also rise, hurting their buyers
- Employment changes:
 - $\,\circ\,$ Increase in the protected industry
 - $_{\odot}\,$ Decrease in industries that use the protected product as inputs
- Example: President Trump's 25% tariff on steel
 - $_{\odot}\,$ Helped US steel firms and their workers
 - $_{\odot}\,$ Hurt US auto firms and workers
 - and many other industries that use steel









• The fall in price in the exporting country causes

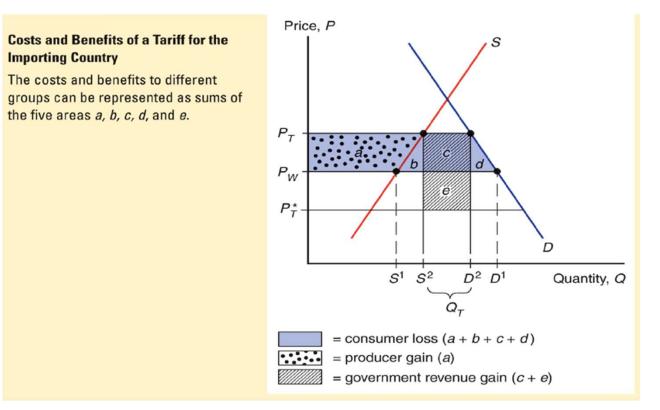
- Harm to sellers there
- Benefit to buyers there
- Shift of sales to other countries

• If the tariff is on exports from only one country (e.g, China)

- Buyers shift to imports from other, more costly, countries (e.g., Vietnam)



Costs and Benefits of Tariffs: Paul Krugman's Illustration



Arguments for tariffs

Jobs

- Government Revenue
- National Security
- Protect against cheap foreign labor
- Fairness in trade
- Protect domestic standard of living
- Equalization of production costs
- Political and social reasons
- Infant-industry protection





Arguments <u>against</u> tariffs

- Foregone gains from trade
- Tariffs prompt retaliation
- Even when beneficial, tariffs are politically hard to remove



Co-Creation: The Future of Trade and Globalization

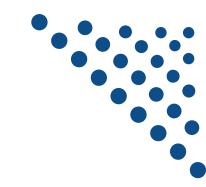


Co-creation is a process of jointly creating mutually valuable experience(s).

Ref. Chakrabarti, A. and Ramaswamy, V.. Rethinking Ricardian'Sum of Enjoyments': Gains from Trade in a Co-Creational Economy. Ross School of Business Paper No. 1211.



Any Questions?



www.NEEDEcon.org Avik Chakrabarti, Ph.D. chakra@uwm.edu

Contact NEED: info@NEEDEcon.org

Submit a testimonial: www.NEEDEcon.org/testimonials.php

Become a Friend of NEED: www.NEEDEcon.org/friend.php

