# **National Economic Education Delegation**



#### Vision

- One day, the public discussion of policy issues will be grounded in an accurate perception of the underlying economic principles and data.

#### Mission

- NEED unites the skills and knowledge of a vast network of professional economists to promote understanding of the economics of policy issues in the United States.

#### NEED Presentations

- Are **nonpartisan** and intended to reflect the consensus of the economics profession.



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# **International Trade** and the Pandemic



Alan V. Deardorff **University of Michigan** 

For presentation to San Mateo Retirement Group February 10, 2021



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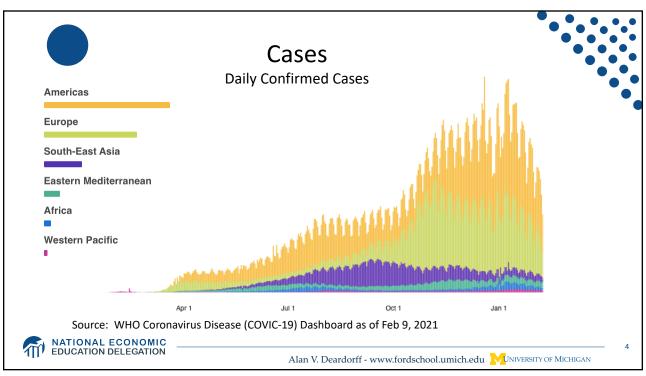
#### Cases

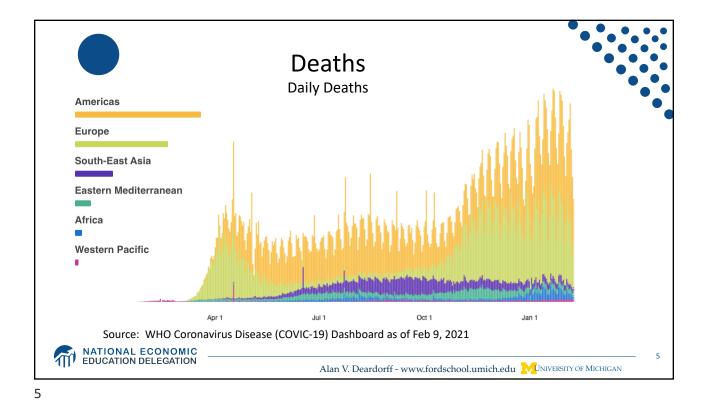
- Started in China
- Spread to the world in two (or three) waves, so far
- Hit the Americas and Europe especially hard
- Deaths surged early and then grew more slowly than cases as treatments improved



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Overview

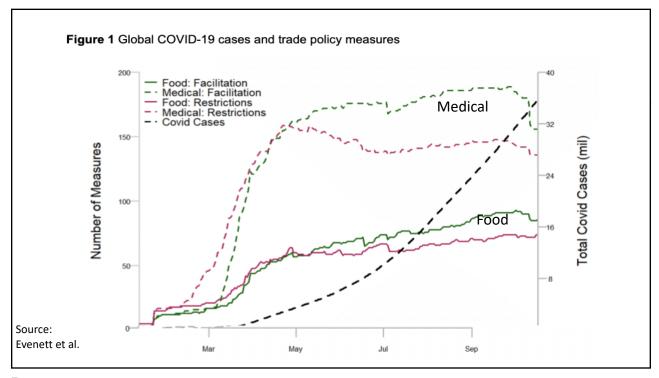


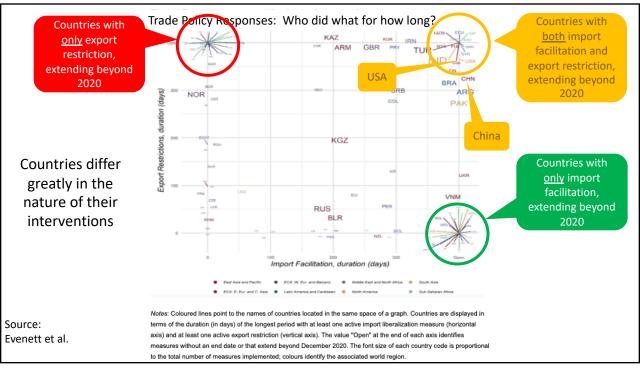
#### Trade Policies

- Included both
  - o Import facilitation, and
  - $\circ \, \text{Export restriction}$
- Both highest for medical and high for food
- Facilitation was somewhat more common than restriction
- Both began before cases surged



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### International Trade and the Pandemic



#### **Outline**

- Causes of the Pandemic
- Effects of the Pandemic
  - On Economies, Including Trade
  - On Trade Policies
- Role of Trade During the Pandemic



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# **Causes of the Pandemic**



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## Causes of the Pandemic



- No. These arise from mutations, often in animals and then spread to humans

#### Does trade spread infections?

- Yes. Trade requires movement of people across borders, carrying infections
- The Black Death (bubonic plague)
  - o "is believed to have been spread by both land and sea, originating in China and following the trade routes to Europe and the Middle East."
- The 1918 Spanish Flu: but spread more by soldiers than by trade



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# Causes of the Pandemic

#### Studies Relate Globalization and Spread of Pandemic

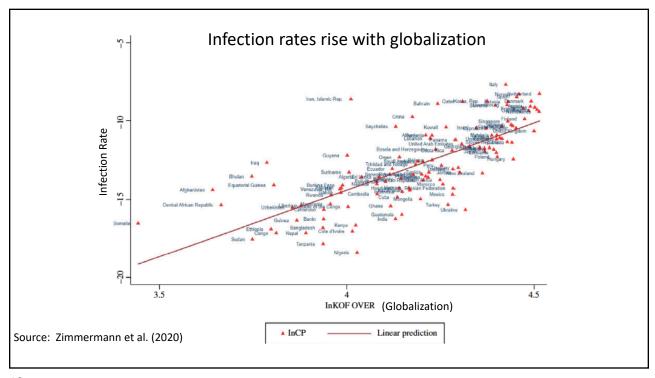
- Zimmermann et al. find, across countries:
  - Infection rate rises with globalization
  - Transmission speed rises with globalization
  - Fatalities fall with globalization
    - (but probably because globalization is correlated with higher incomes and thus better treatment)
- Farzanegan et al. report similarly

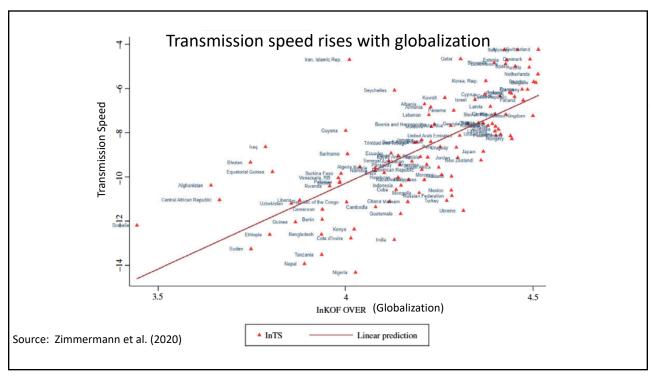


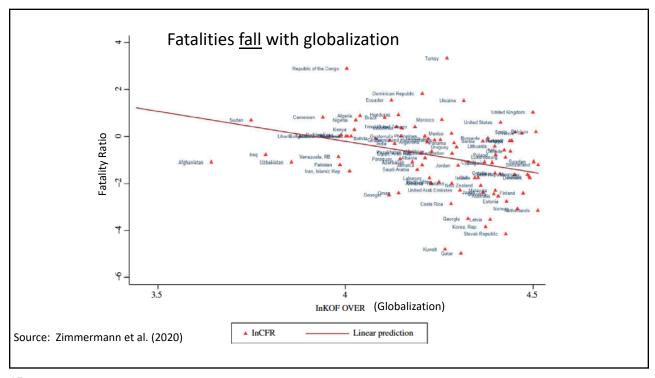
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# **Effects on Economies**



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# **Effects on Economies**



#### • Effects of the Pandemic on Economies

- Trade plummets
- Travel halted
- Shipping declines
- Supply chains interrupted



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# **Trade**



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## **Effects on Economies**



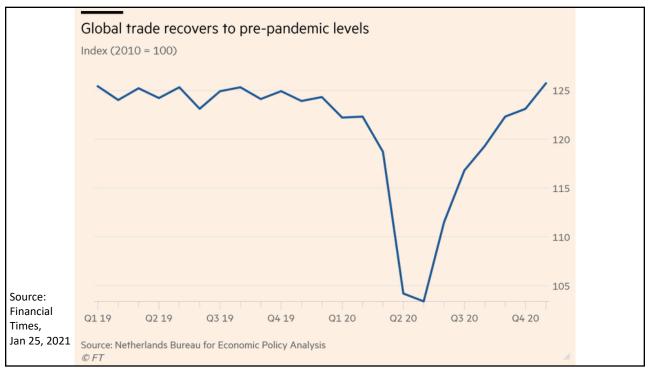
#### • Trade

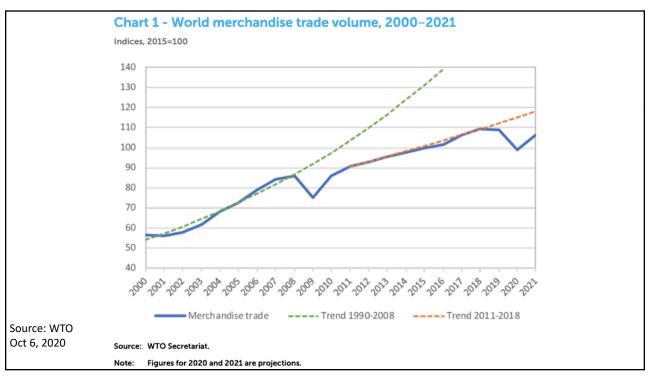
- Pandemic was expected to reduce world trade, and did
- US was typical; China, was not
- Trade with China was crucial for dealing with pandemic
- Trade in many products were affected
- Global trade has now recovered

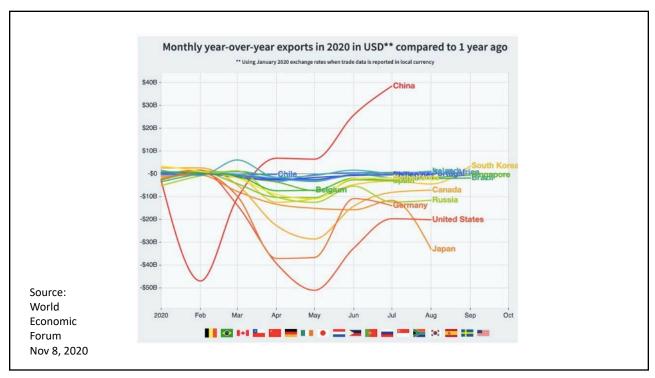


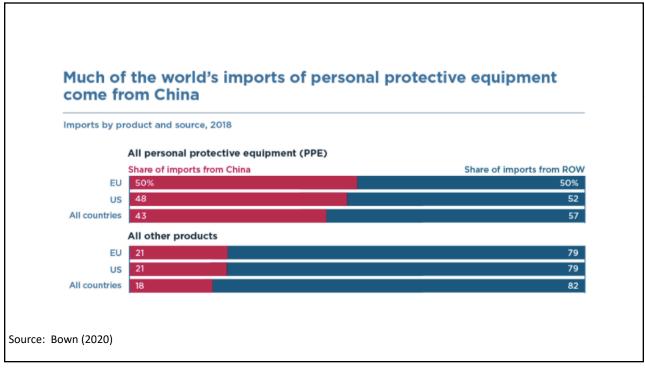
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# **Travel**



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## **Effects on Economies**

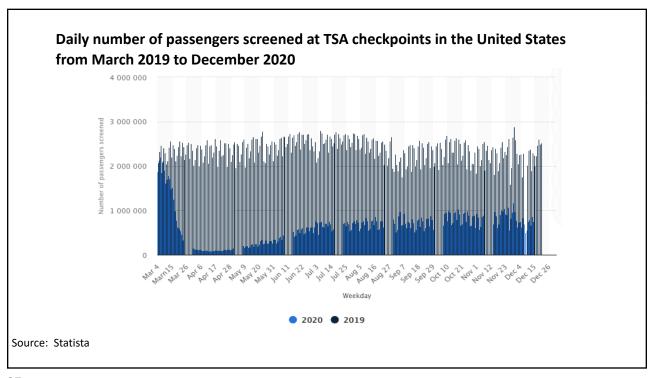
#### Travel

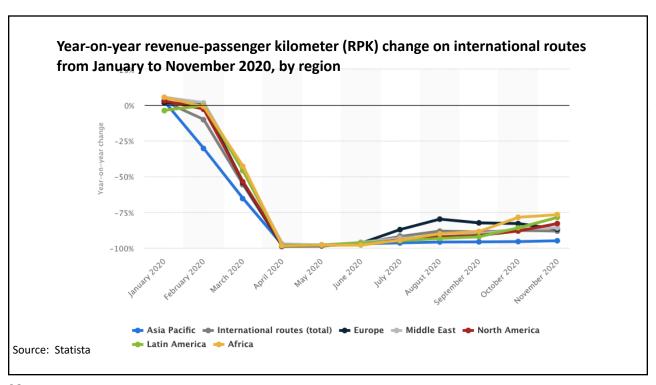
- Fell drastically and has only partially recovered
- Symptoms
  - o Passengers
  - o Airline stock prices
- Reasons:
  - o Travel restrictions and border closures
  - o Delays at border

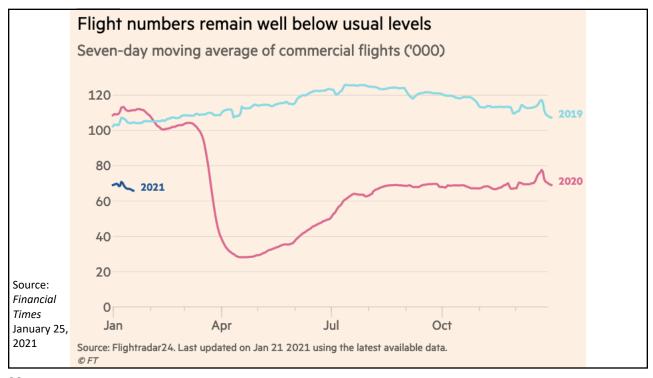


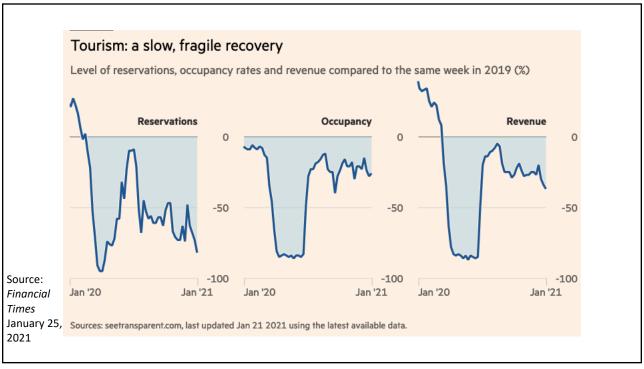
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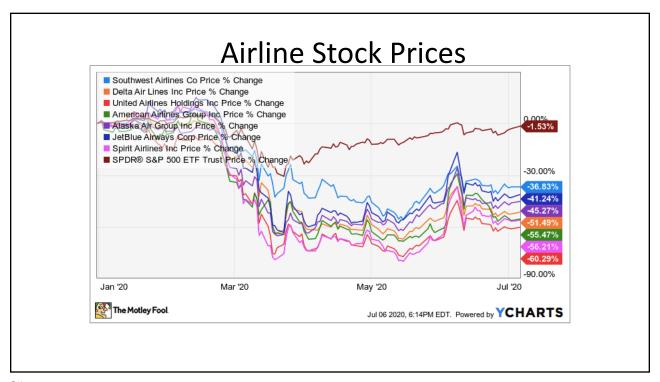


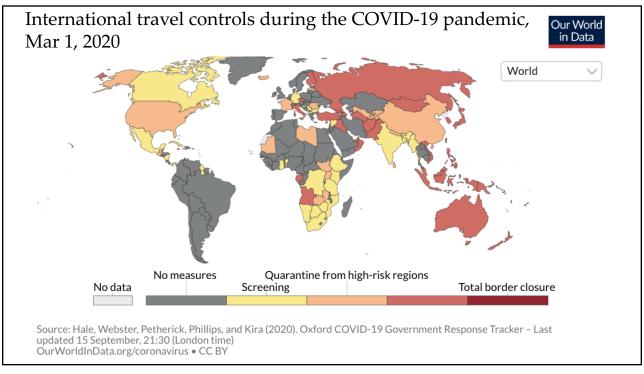


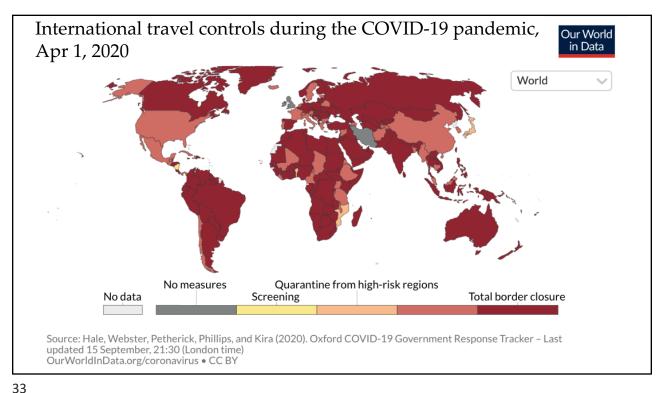


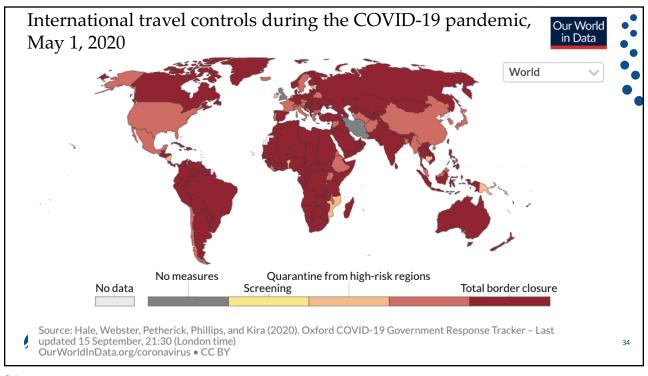


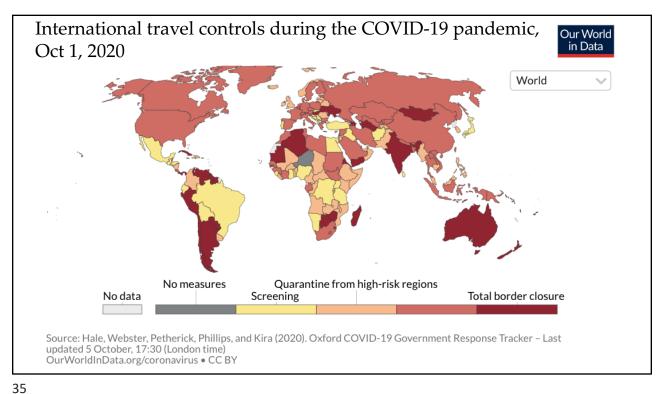


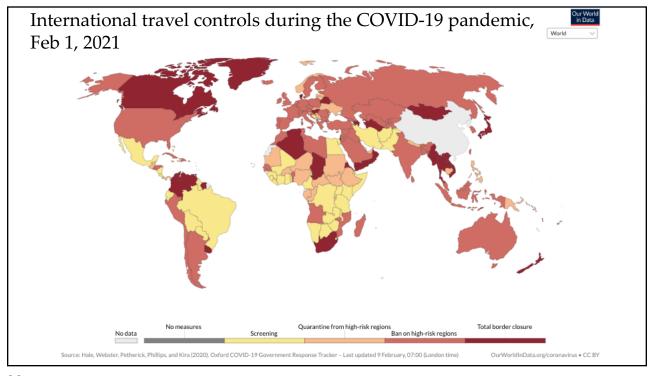
















# Shipping



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# **Effects on Economies**



#### Shipping by Sea

- Drop in trade reduced demand at first
  - oThen increased demand for restocking
- Pandemic added restrictions
  - At ports
  - o For crews
- Shipping rates rose



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#### Headlines on Shipping

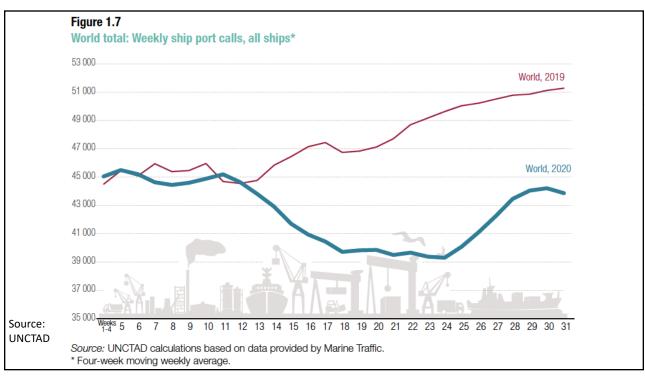
- Jan 4, 2021 WSJ: Covid-19 Shipping Problems Squeeze China's Exporters
- Dec 10 FT: Pandemic triggers 'perfect storm' for global shipping supply
- Nov 1 FT: An SOS for the stranded seafarers who ship global trade
- Oct 21 FT: China-US shipping costs soar on pandemic restocking
- Oct 10 Economist: How covid-19 put wind in shipping companies' sails
- Sep 14 (1): Trapped by Pandemic, Ships' Crews Fight Exhaustion and Despair
- Sep 5 FT: Covid-19 restrictions threaten shipping lanes and crew
- Jun 7 FT: Shipping industry warns of trade logjam as crews remain stranded
- May 13 FT: Maersk warns of 25% drop in shipping as virus snarls trade
- Mar 6 WSJ: Coronavirus Snarls Trans-Pacific Shipping and Ripples Through U.S. Business
- Feb 28 NYT: Virus Disrupts China's Shipping, and World Ports Feel the Impact"

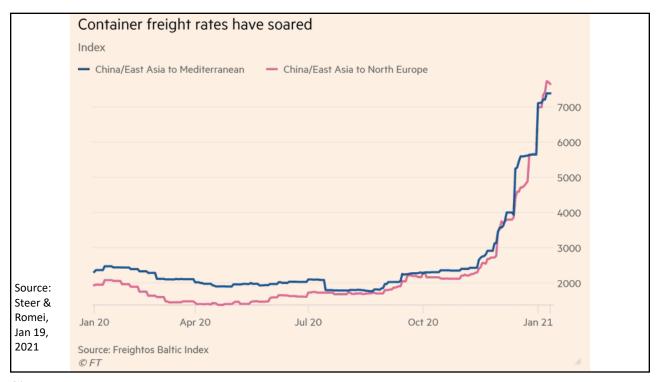


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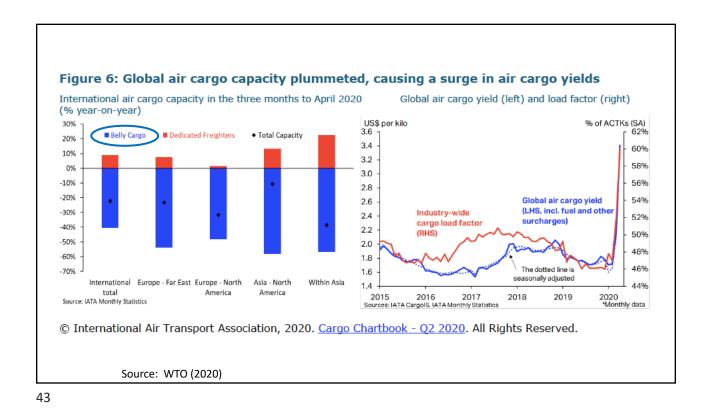


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### **Effects on Economies**



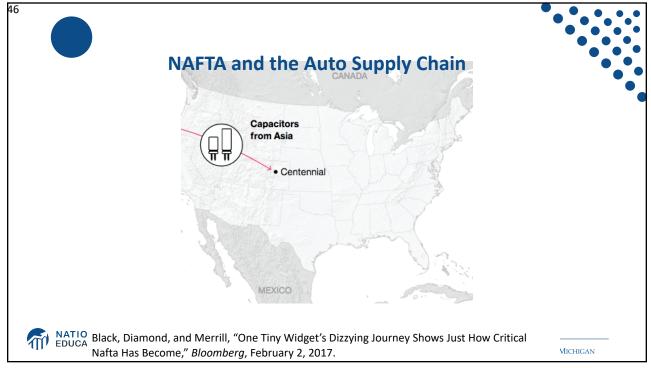
#### Supply Chains

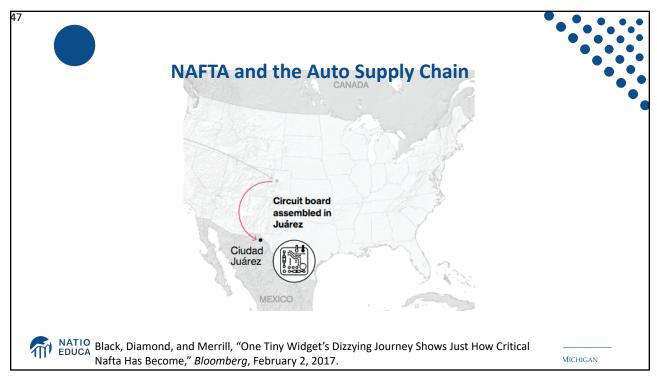
- Globalization has created long and complex international supply chains
- These are vulnerable to the shocks of the pandemic

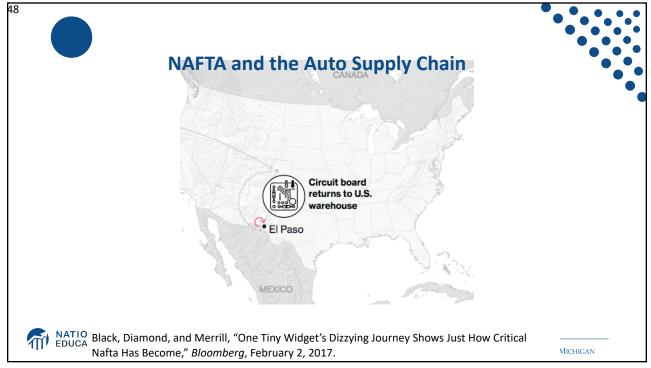


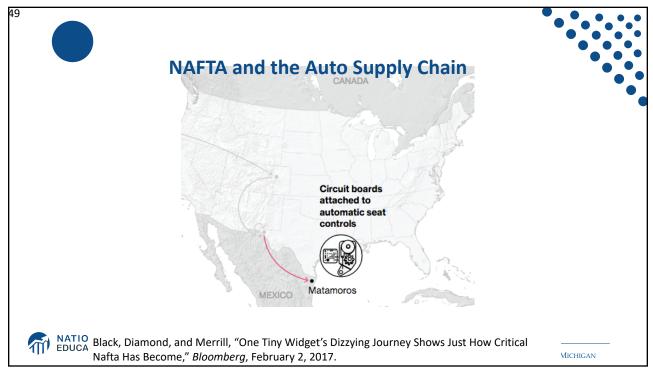
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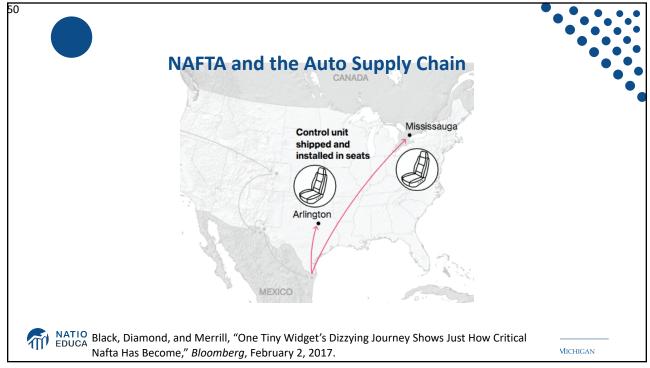
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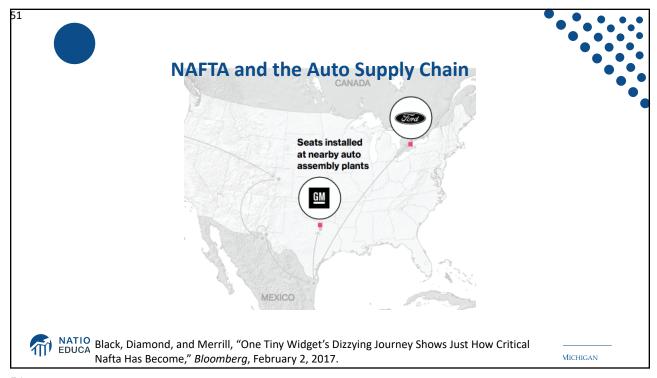


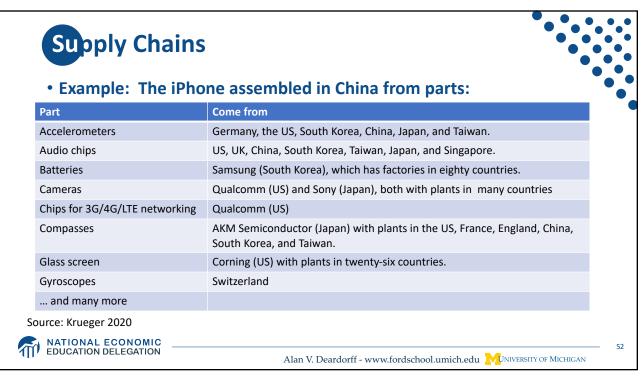












#### **Supply Chains**



- Is a wave of supply-chain reshoring around the corner? (Economist 12/19/20
- Pandemic triggers 'perfect storm' for global shipping supply chains (FT 12/10/20)
- Covid forces rewrite of academic textbooks on supply chains and logistics (FT 10/8/20)
- Stranded crews pose a risk to supply chains (FT 9/28/20)
- Covid-19 has exposed the world's fragile, complex food supply chains (FT
- Pandemic shows US must make vital products at home (Kevin McCarthy 8/23/20) [House Minority Leader]
- Covid-19 and other risks mean quarter of products could be sourced from new countries in 5 years (FT 8/8/20)
- Will coronavirus pandemic finally kill off global supply chains? (FT 5/28/20)
- Steep Drop in Trade Flows Shows Pitfalls of Cross-Border Supply Chains (WSJ 5/26/20)
- Covid-19 crisis has laid bare weaknesses in supply chains (FT 5/11/20)



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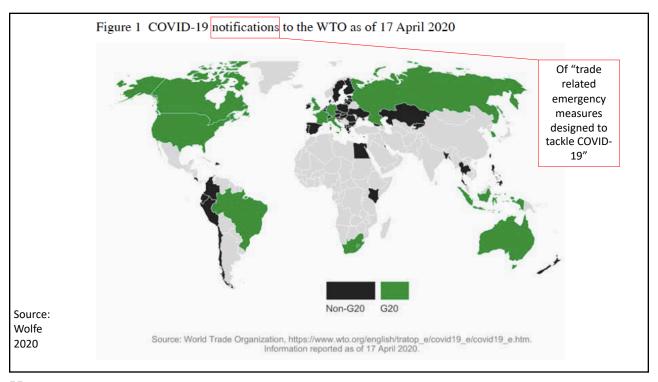


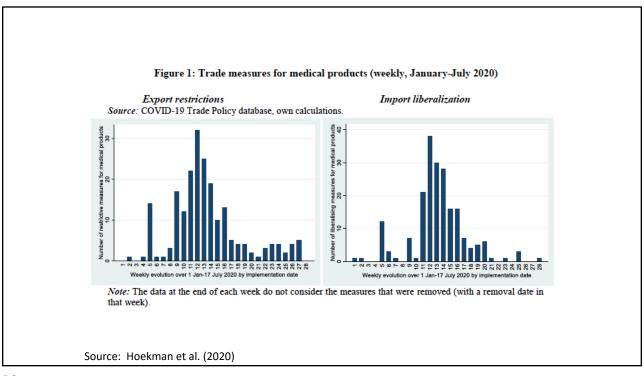
# **Effects on Trade Policies**



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- Effects of the Pandemic on Trade Policies
  - Export Policies
  - Import Policies



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# **Export Policies**



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#### **Effects on Export Policies**

#### Export Policies

- There were export bans by many countries
  - Medical supplies
  - o Food
  - ○Other
- Some were temporary, but many others were not
- Only a few countries had policies to encourage exports



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### **Effects on Export Policies**



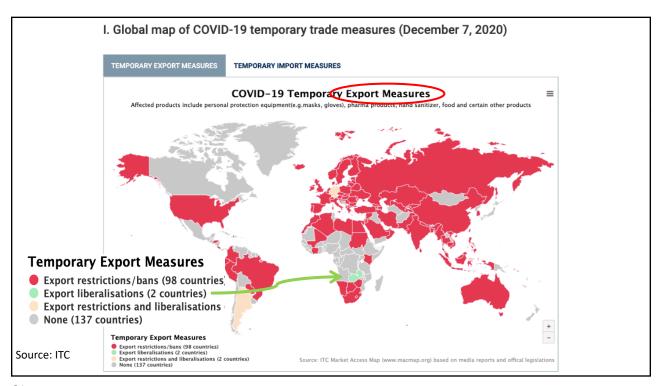
- Jun 24, NYT: Warren and Booker Press Meatpackers on Exports to China
- May 28, WSJ: 'Vaccine Nationalism': A New Dynamic in the Race to Quash Coronavirus
- Apr 11, WSJ: China Tightens Customs Checks for Medical **Equipment Exports**
- Apr 8, WSJ: U.S. to Restrict Mask, Glove Exports for Four Months **During Coronavirus Pandemic**
- Apr 8, WP: As borders harden during pandemic, some countries look to hold on to their own food
- Apr 3, Reuters: Trade Restrictions on Food Exports Due to the Coronavirus Pandemic
- Mar 19, VOX<sup>EU</sup>: Sickening thy neighbour: **Export restraints** on medical supplies during a pandemic



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### **Effects on Import Policies**



#### Effects of the Pandemic on Import **Policies**

- Import expansion
  - Tariff reductions
- Import contraction
  - Tariff increases
  - Import bans
  - Government procurement



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### **Effects on Import Policies**



- Headlines on Import Expansion
  - Apr 20 FT: Trump exempts virus-hit US businesses from import tariffs
  - Apr 13 WSJ: U.S. Tariffs Hamper Imports of Sanitizer, Disinfectants, Some Companies Say
  - Apr 2 NYT: Trump Rebuffs Demands to Lift Tariffs as Economy
  - Mar≪1 FT: Trump to suspend some tariffs for 90 days
  - Mar 26 WSJ: U.S. Will Approve Some Delays in Tariff Payments Amid Coronavirus Crisis
  - Mar 24 FT: Drop the tariffs and save some lives. Quick
  - Mar 19 WSJ: Trump Spurns Business Plea to Ease Tariffs Amid
  - Mar 16 NYT: U.S. Weighs Tariff Relief but Some Fear China Will Take Advantage



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#### **Effects on Import Policies**



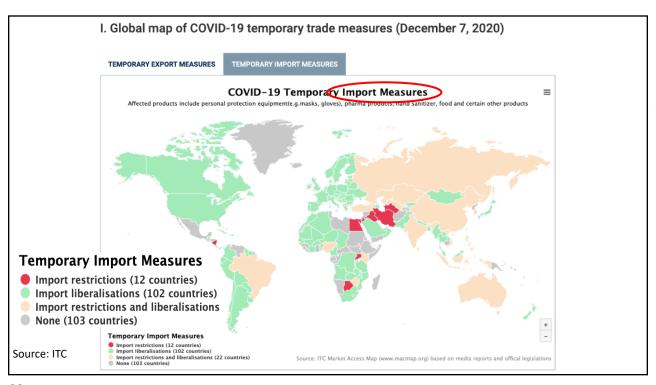
#### • Headlines on Import Contraction

- Aug 23 FT: McCarthy: Pandemic shows US must make vital products at home
- Aug 1/FT: Guangzhou bans frozen meat imports over virus fears
- Aug 6 FT: Donald Trump to order government to buy medicines from US companies
- May 36 WSI: Protectionism Spreads Globally With the New Coronavirus
- May 10 FT: U.S. Multinationals fear **rise in protectionism** because of pandemic



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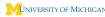




# **Trade during the Pandemic**



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## Role of Trade During Pandemic





- Largest importer was US, both before and during
- Largest exporter, after a lag, was China
- Facemasks
  - o Textile facemasks grew most
  - As did China's imports of the textiles
  - In spite of high import tariffs

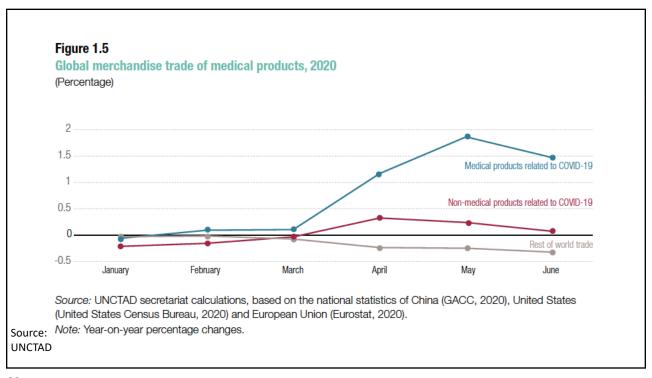


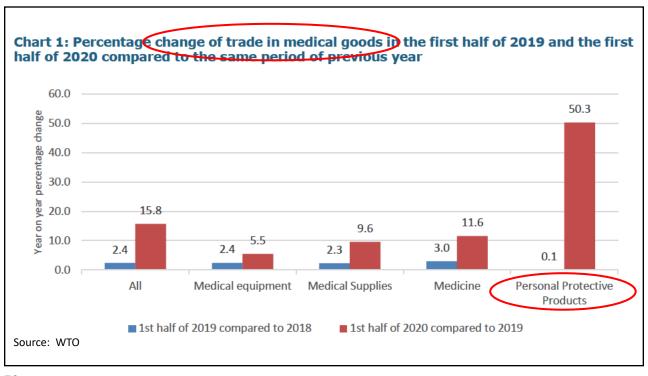
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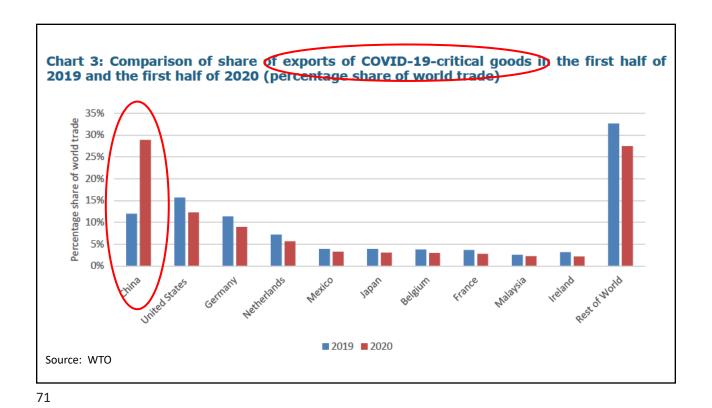












Role of Trade During Pandemic



#### Vaccines

- Industry relies heavily on trade
- Concerns
  - o Distribution to the poorest countries
  - o Reluctance to be vaccinated
  - Vaccine nationalism



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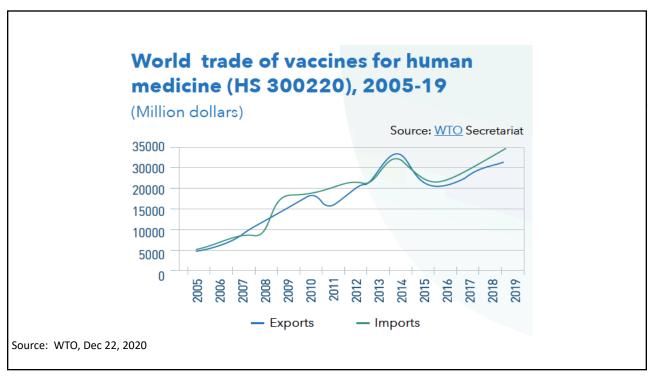


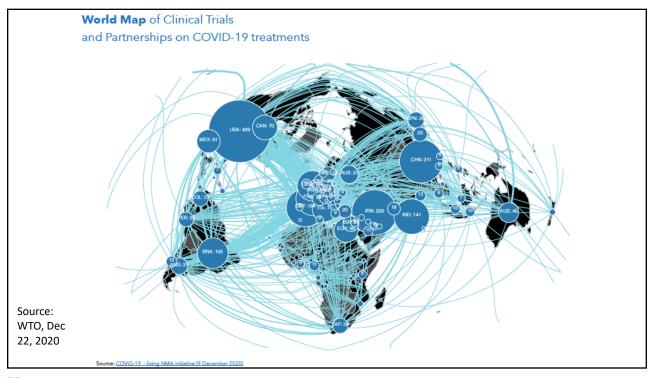
- Vaccine Development and Distribution
  - 1. Vaccine development
  - 2. Domestic approval manufacture
  - 3. Vaccine manufacture
  - Domestic approval importer
  - 5. International distribution
  - 6. Border clearance
  - 7. Domestic distribution and surveillance

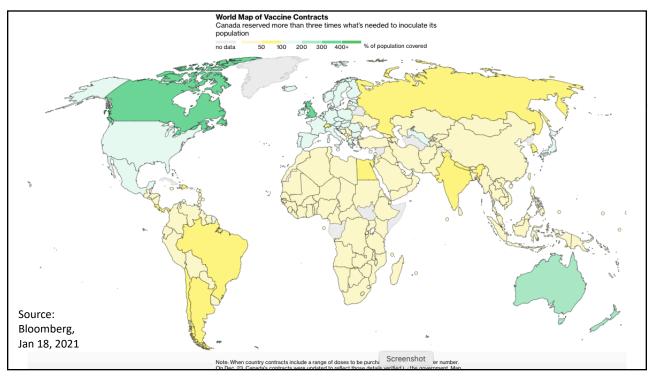


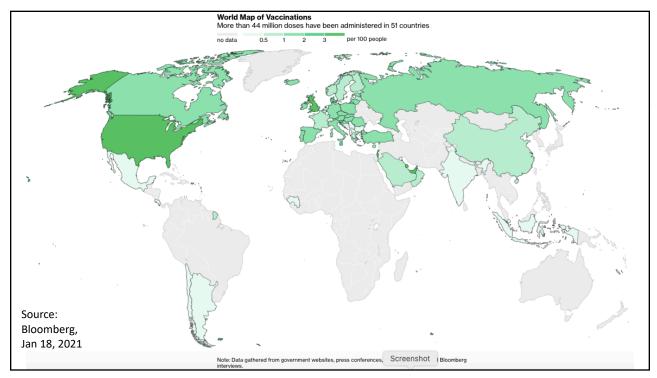
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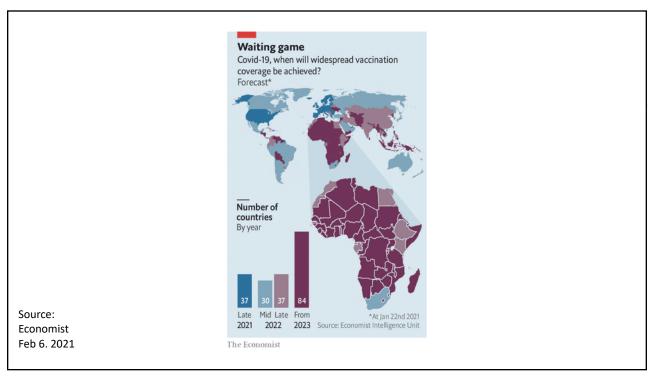
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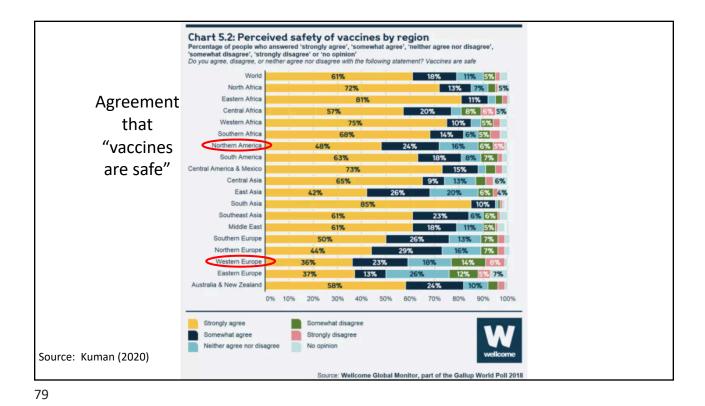
















- 1/25/21: Study shows vaccine nationalism could cost rich countries US\$4.5 trillion (ICC)
- 2/2/21: Vaccine Nationalism Harms Everyone and Protects No One (Foreign Policy)
- 2/2/21: 'Vaccine nationalism' echoes the disastrous mistakes made with HIV (The Guardian)
- 2/3/21: Vaccine nationalism will leave everyone more at risk of coronavirus (New Scientist)
- 1/31/21: How vaccine nationalism could extend the pandemic (Fortune)



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- The Covid-19 Pandemic has had
  - Devastating effects on the global economy
  - Serious effects on global trade
  - Mostly adverse effects on international trade policies
- How much of this will be permanent remains to be seen



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# Thank you! **Any Questions?**

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