## 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.







### **Globalization:** Its Rise and Perhaps Its Fall

### Alan V. Deardorff **University of Michigan**

NEED Webinar April 24, 2020





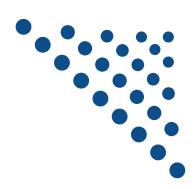




- What is Globalization?
- Pros and Cons
- Policies
- Effects of the Pandemic
- Globalization's Future?

## What Globalizations Is

- Growth over time of many interactions between countries
  - Trade
  - Global Value Chains
  - Foreign Direct Investment
  - Financial Flows
  - Migration
  - International Travel







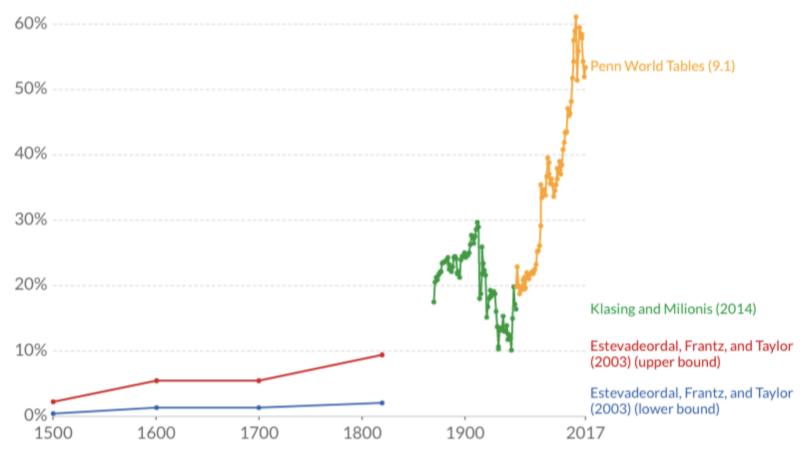
## Trade



#### Globalization over 5 centuries



Shown is the "trade openness index". This index is defined as the sum of world exports and imports, divided by world GDP. Each series corresponds to a different source.



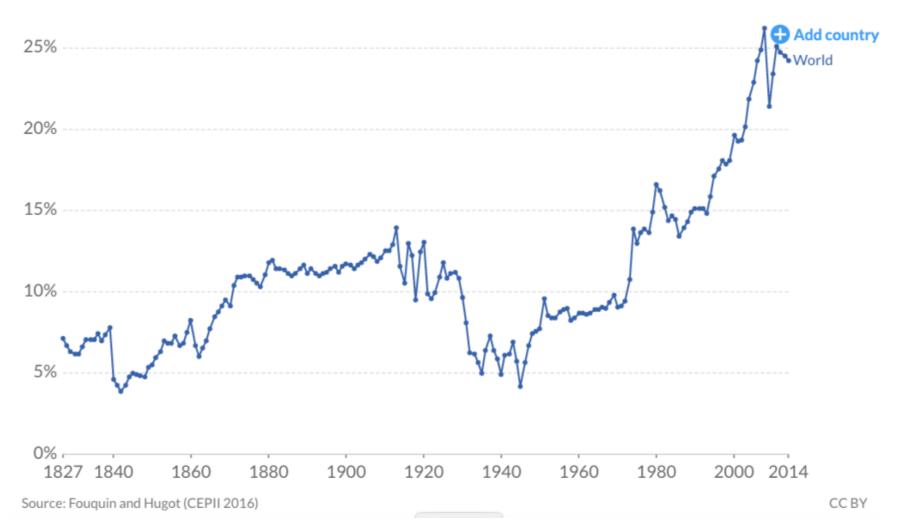
Source: Estevadeordal, Frantz, and Taylor (2003), Klasing and Milionis (2014), Feenstra et al. (2015) Penn World Tables 9.1

CC BY

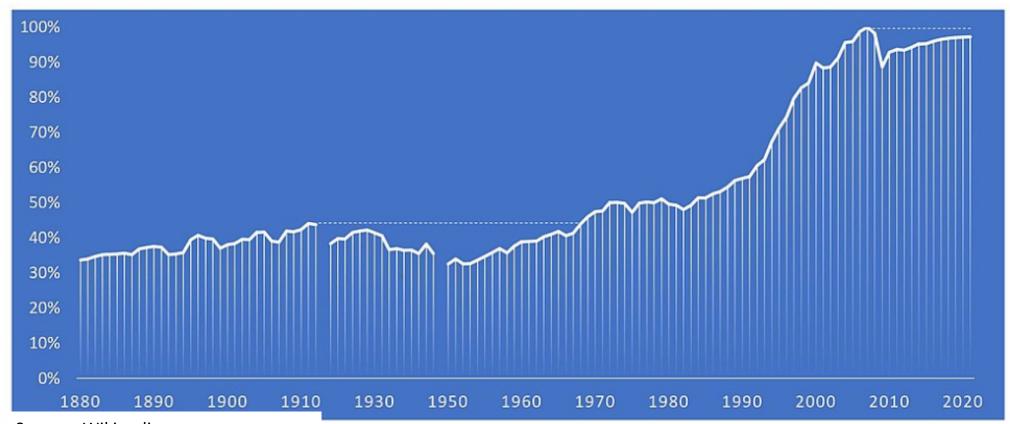
### Value of exported goods as share of GDP

Our World in Data

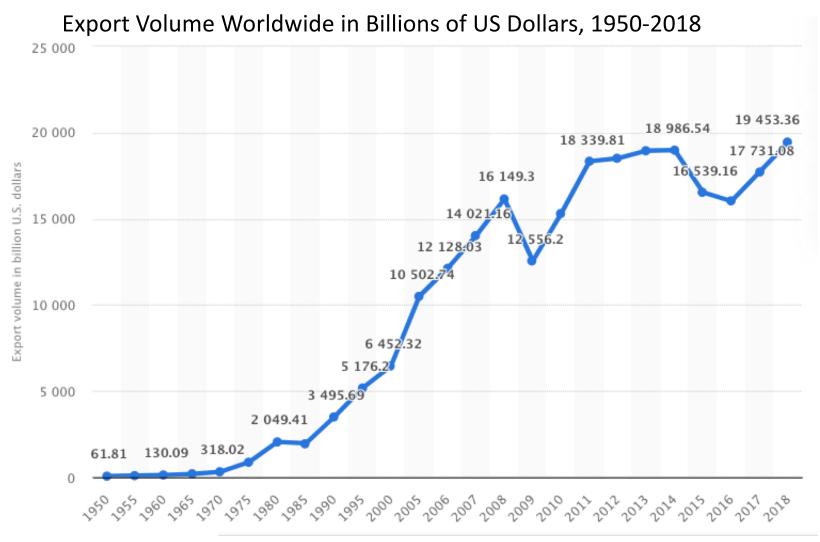
Estimates correspond to merchandise export-to-GDP ratios.



# Globalization and Deglobalization 1880-2022 (Openness of the world economy index numbers 2008=100)



Source: Wikipedia



Source: Statista



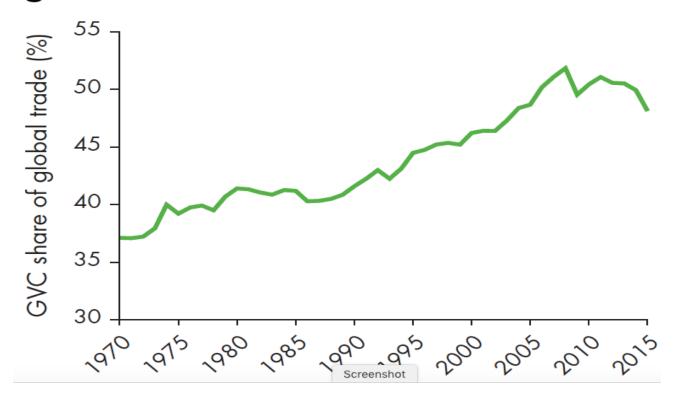
## **Global Value Chains**





Growth of Global Value Chains, 1970-2015

Figure 1.2 GVC trade grew rapidly in
the 1990s but stagnated after the 2008
global financial crisis

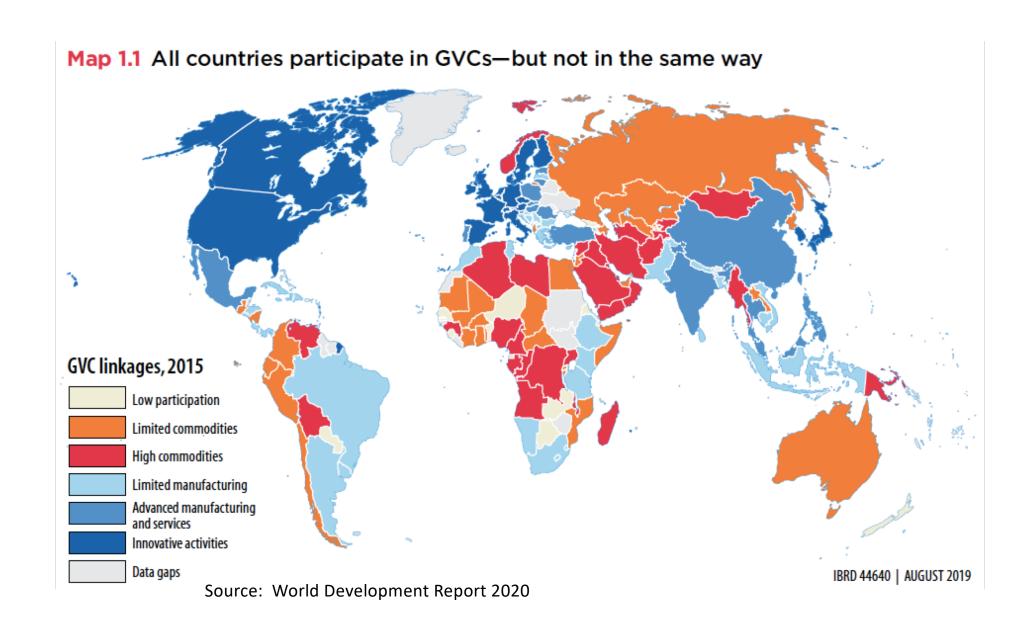


Source: World Development Report 2020

Frame exports Saddle exports Brake exports China: US\$977 million China: US\$100 million Japan: US\$200 million Vietnam: US\$147 million Italy: US\$85 million Singapore: US\$172 million Italy: US\$66 million Spain: US\$16 million Malaysia: US\$152 million Wheel exports Pedal and crank exports China: US\$170 million Japan: US\$150 million China: US\$137 million Italy: US\$28 million Singapore: US\$117 million France: US\$26 million

Figure 1.1 Where do bicycles come from?

Source: World Development Report 2020



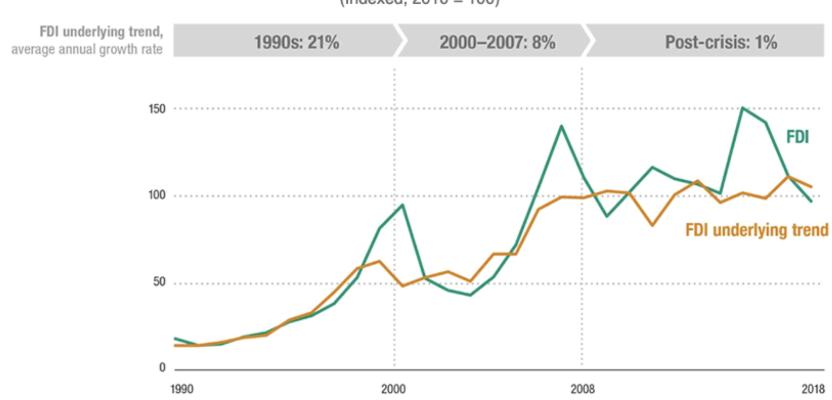


# Foreign Direct Investment (i.e., multinational companies)



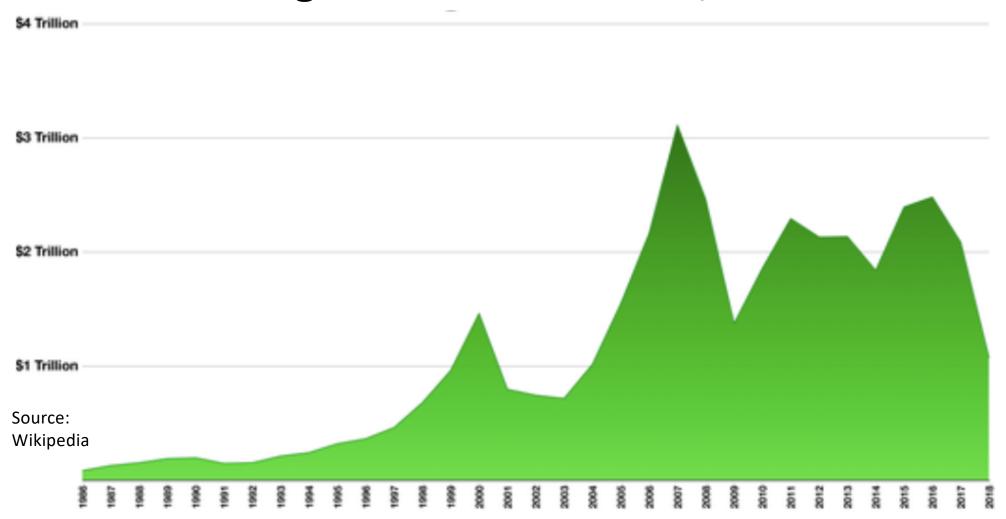


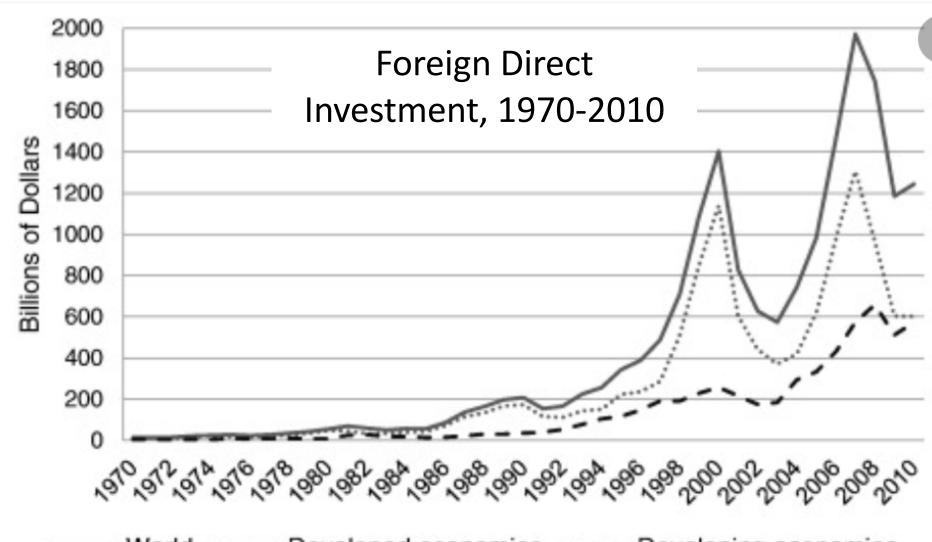
### FDI inflows and the underlying trend, 1990-2018 (Indexed, 2010 = 100)



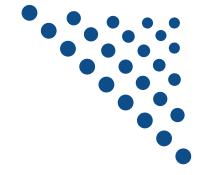
Source: UNCTAD

## World Foreign Direct Investment, 1986-2016





Source: ScienceDirect.com Developed economies - - - Developing economies



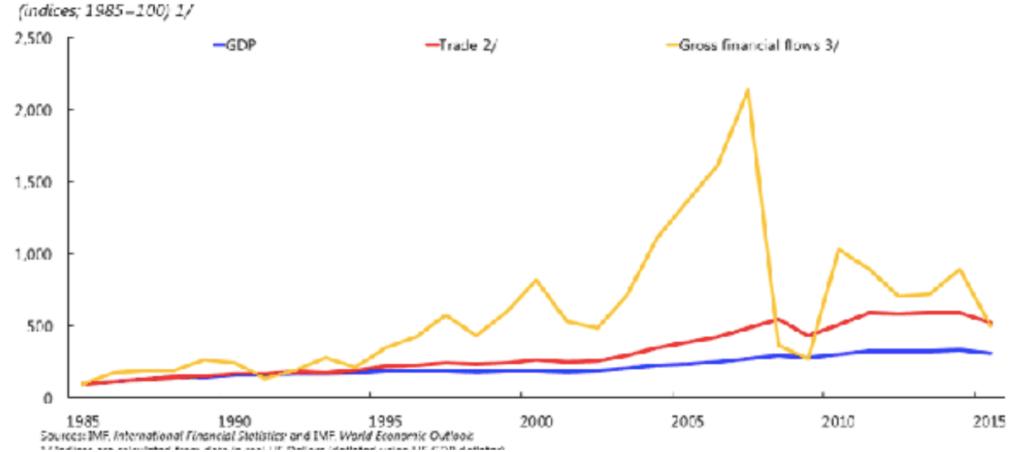
## **Financial Flows**



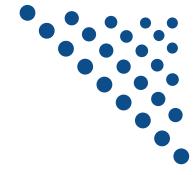


#### Figure 7: Global capital flows peaked before the GFC

Evolution of global GDP, trade in goods and services, and financial flows

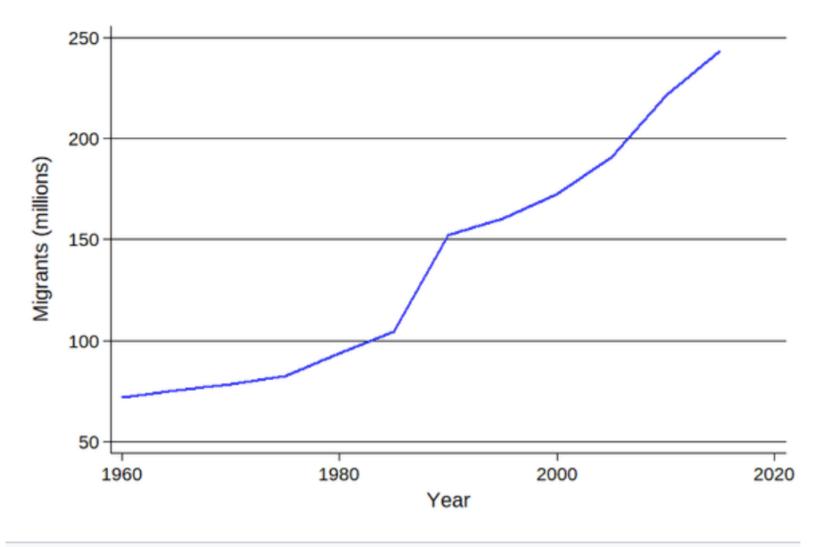


Source: Obstfeld 2017



# Migration





Source: Wikipedia

The number of migrants in the world 1960–2015.[8]

### International migrants, 1970–2015<sup>[16]</sup>

| Year | Number of migrants | Migrants as a % of the world's population |
|------|--------------------|---|
| 1970 | 84,460,125         | 2.3%                                      |
| 1975 | 90,368,010         | 2.2%                                      |
| 1980 | 101,983,149        | 2.3%                                      |
| 1985 | 113,206,691        | 2.3%                                      |
| 1990 | 153,011,473        | 2.9%                                      |
| 1995 | 161,316,895        | 2.8%                                      |
| 2000 | 173,588,441        | 2.8%                                      |
| 2005 | 191,615,574        | 2.9%                                      |
| 2010 | 220,781,909        | 3.2%                                      |
| 2015 | 248,861,296        | 3.4%                                      |
| 2019 | 271,642,105        | 3.5%                                      |

Source: Wikipedia

### Level of Migration to America Not Unprecedented

Foreign-born population in the U.S. 1850 – 2015 (total & percentage share)

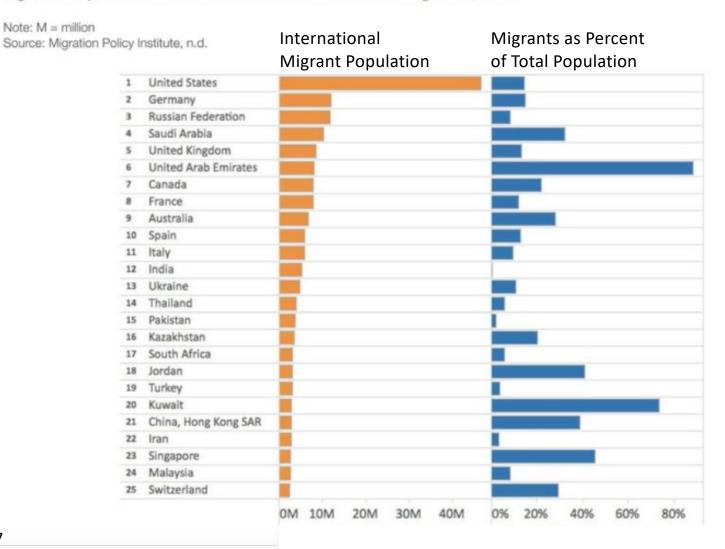


Source: Statista The term foreign-born refers to people residing in the United States who were not U.S. citizens at birth.

StatistaCharts Source: Migration Policy Institute



Figure 8: Top 25 Destination Countries for International Migration, 2015



Source: Gray 2017

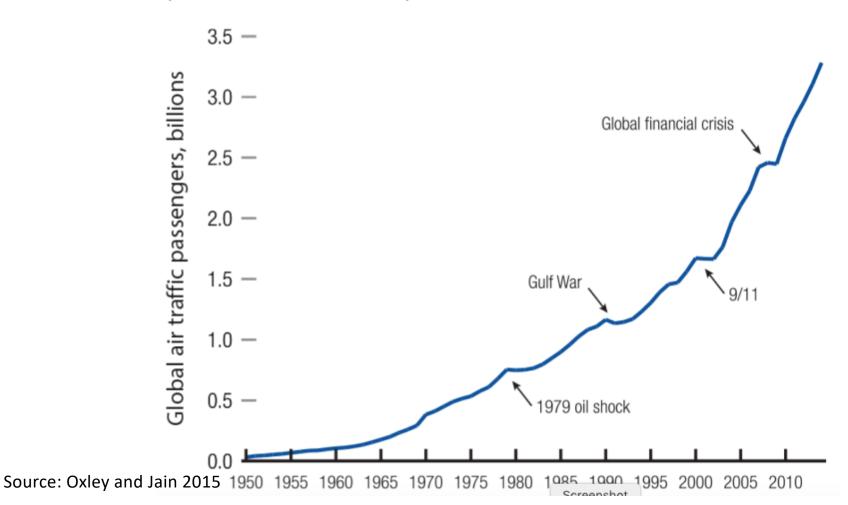


## **International Travel**



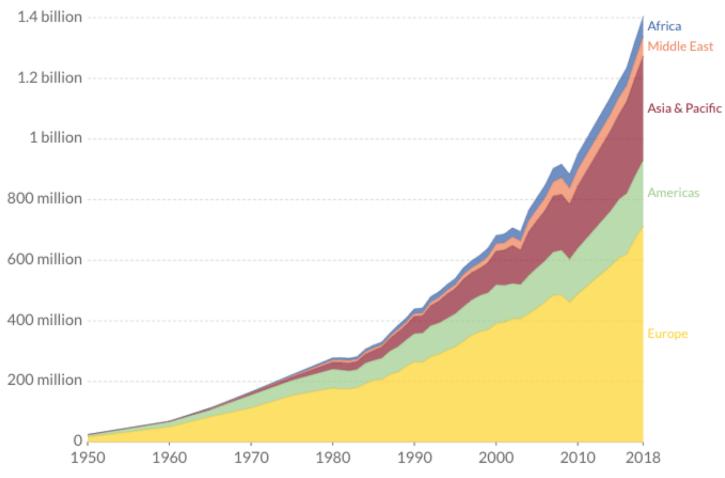


Figure 1: Global air passenger traffic trend, 1950-2014 (IATA Forecast for 2014)



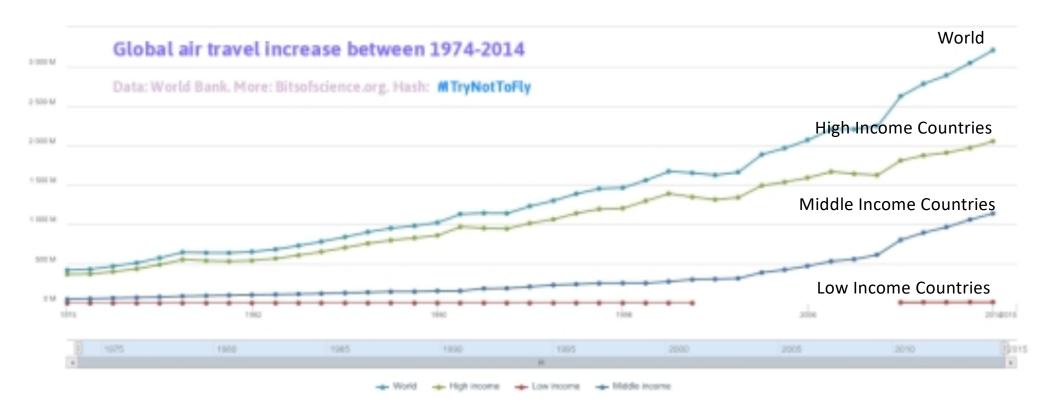






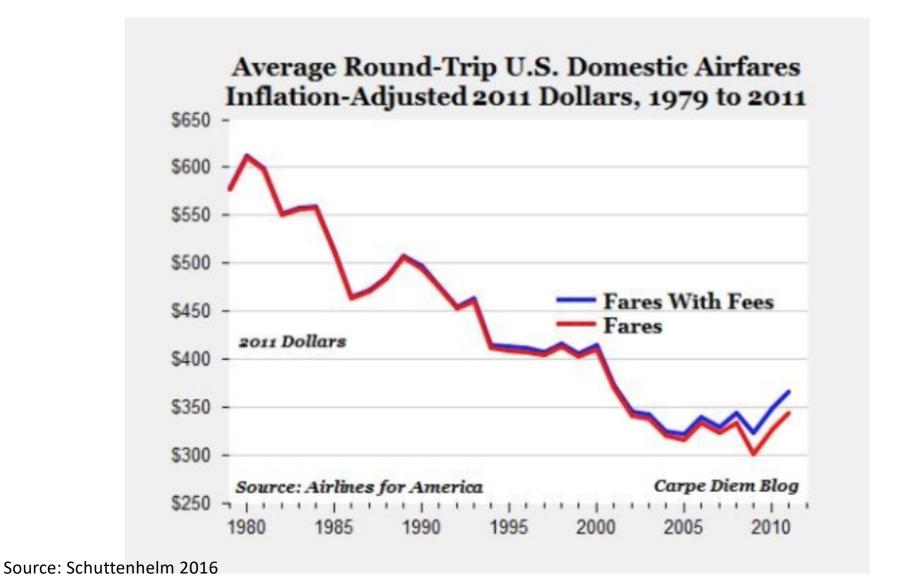
Source: United Nations World Tourism Organization - World Tourism Barometer (2019)

CCBY



Series : Air transport, passengers carried Source: World Development Indicators Created on: 02/24/2016

Source: Schuttenhelm 2016



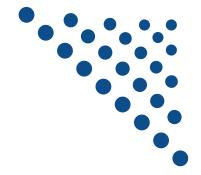
## Pros and Cons of Globalization



### Pros and Cons of Globalization

- Gains from Trade
  - Theory of Comparative Advantage
  - Other Sources of Gain from Trade
- Costs of Trade





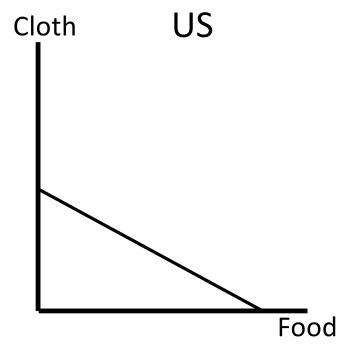
## **Gains from Trade Theory of Comparative Advantage**

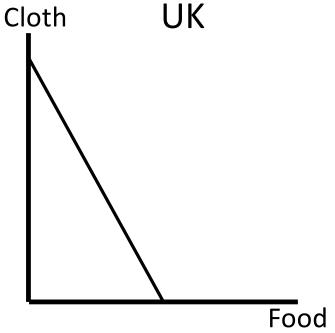




## Comparative Advantage If US & UK differ in what they can produce...



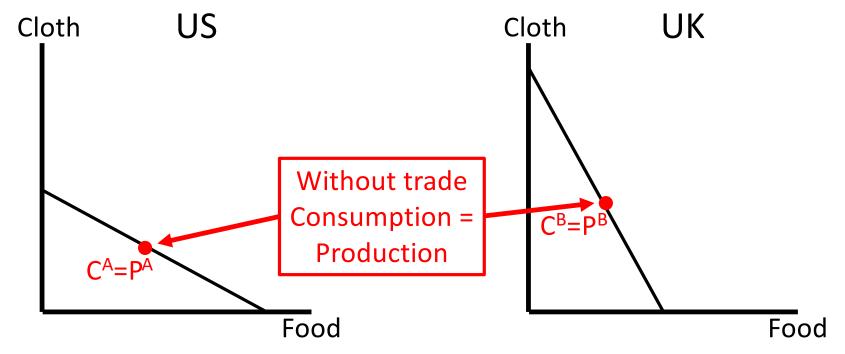






### **Comparative Advantage**

... Without trade, their consumption will also differ...

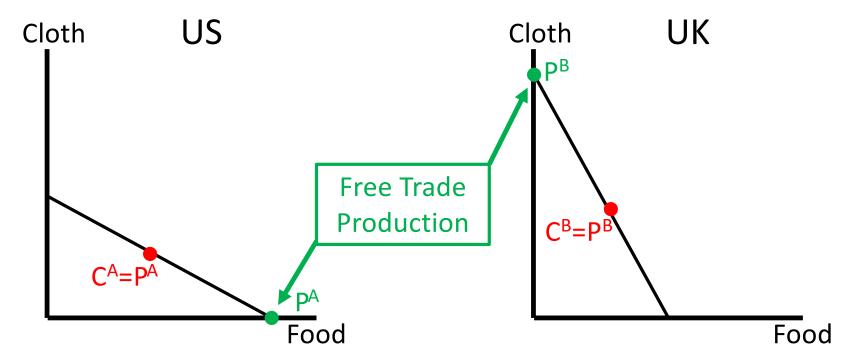






### **Comparative Advantage**

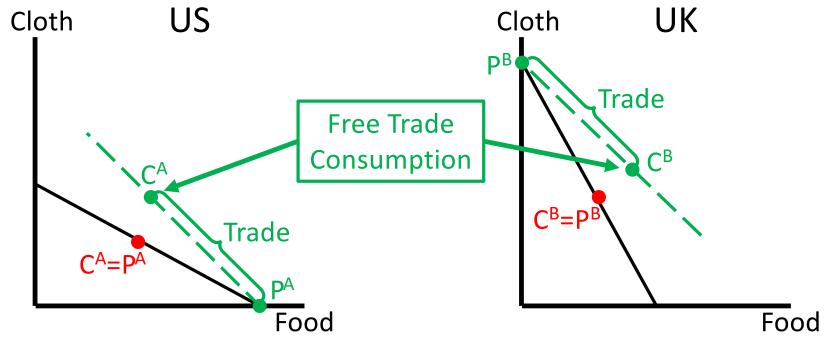
... With free trade, they specialize in what they do best...





### **Comparative Advantage** ... And can consume more by trading.

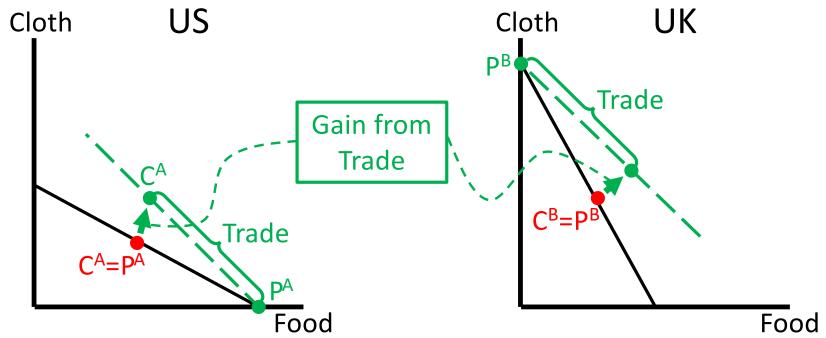




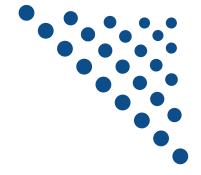


### **Comparative Advantage** Thus countries both Gain from Trade









## **Gains from Trade Other Sources of Gain from Trade**





## Other sources of Gain from Trade



- Productivity (most productive firms expand and export)
- Returns to scale (small countries can support larger firms)
- Competition (monopolies in small countries lose market power)
- Variety (buyers can access more choices)
- Supply chains (firms source parts from cheapest sources)
- Technology (producers access foreign technologies)







## **Costs of Trade**





## **But there are Costs**

#### Economic:

- When trade expands (or contracts)
  - Some firms lose market share or shut down
  - Their workers lose jobs
  - Their communities lose customers
- Vulnerability to foreign recession/inflation

#### Non-economic

- Dependence on other countries
- Vulnerability to trade disruption
  - Crisis induced (earthquake, flood, disease)
  - Policy induced (sanctions, tariffs, export bans)







### Policies that Affect Globalization

- Policies that Affect Globalization
  - That Encourage It
    - Tariff Reductions
    - Trade Agreements
    - o Other
  - That Discourage It
    - Trump's Tariffs
    - o Trade War

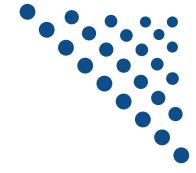






# Policies that **Encourage** Globalization

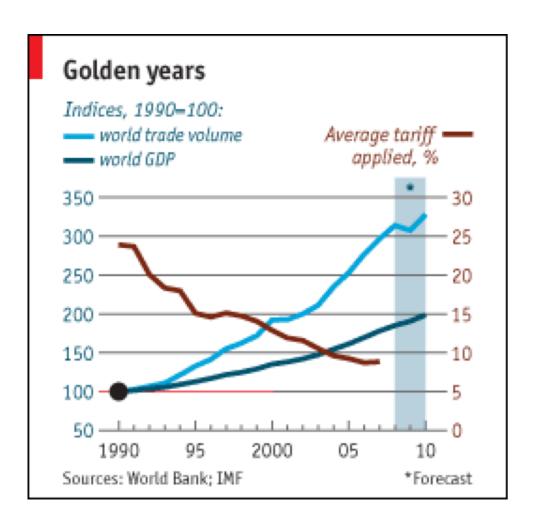




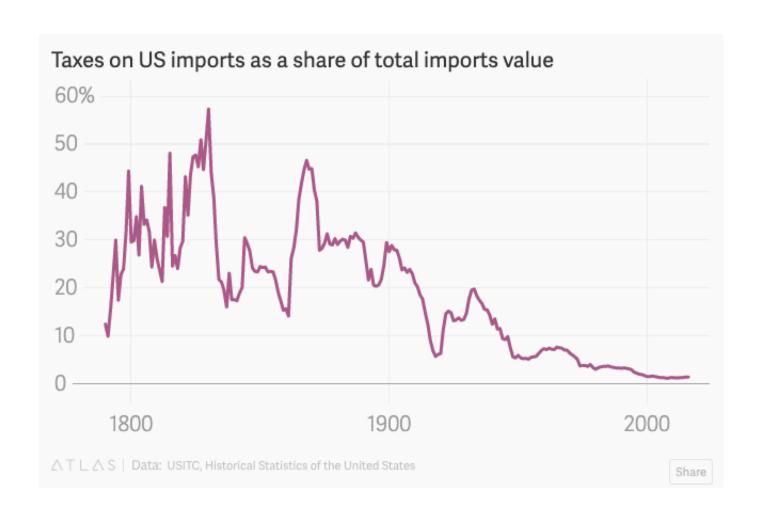
## **Tariff Reductions**







Source: Economist



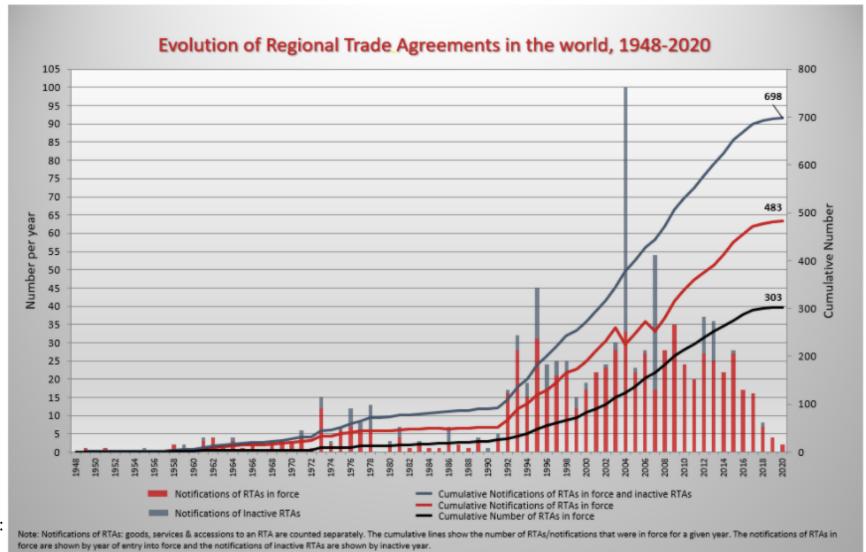
Source: Quartz 2018



# Trade Agreements







Source: **WTO** 

Source: RTA Section, WTO Secretariat, January 2020.

# **European Union**

Source: Europa.eu



### NAFTA (now USMCA)

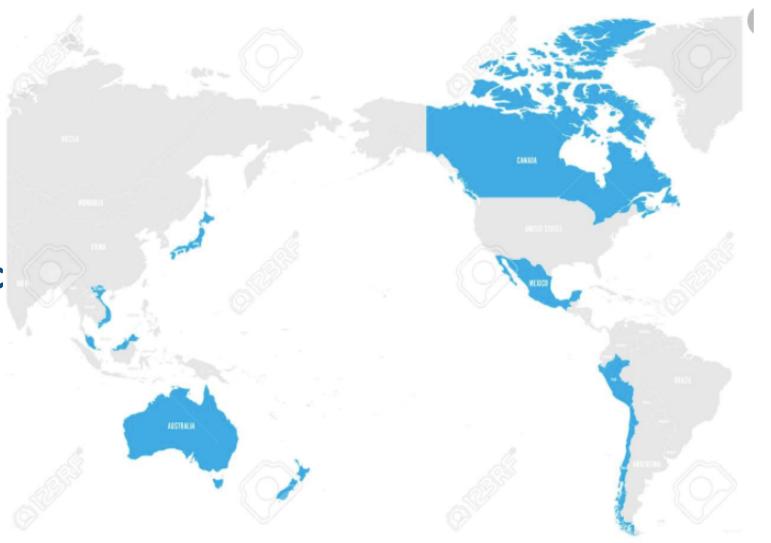


### **MERCOSUR**



**CPTPP** 

Trans-Pacific Partnership minus US



**RCEP** 

Regional
Comprehensive
Economic
Partnership

(Pending, hope to sign by end of 2020)



### Other Policies to Encourage Globalization



#### • IMF/World Bank

- Policy advice to open markets (the "Washington Consensus")
- Loans to countries conditional on
  - Reducing trade barriers
  - Permitting capital flows

#### GATT/WTO (World Trade Organization)

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

#### Bilateral Investment Treaties

- Better treatment of multinational corporations





# Policies that Discourage Globalization



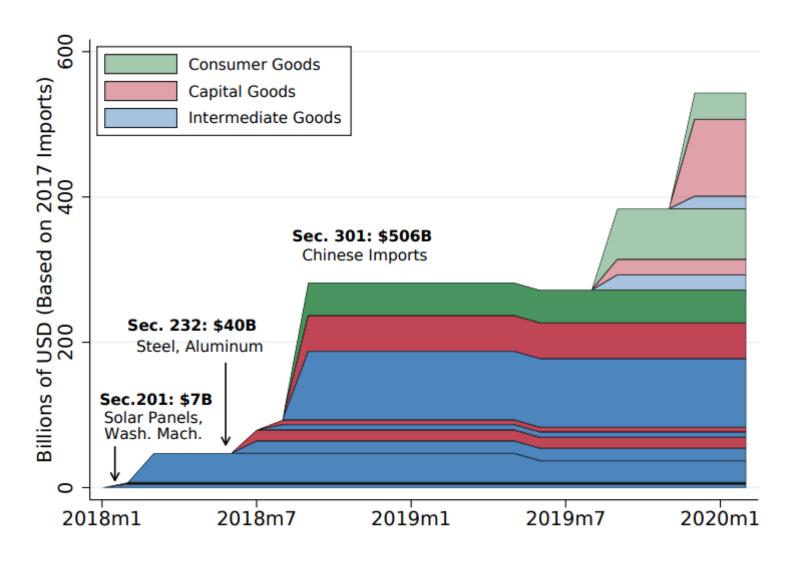


# Trump's Tariffs



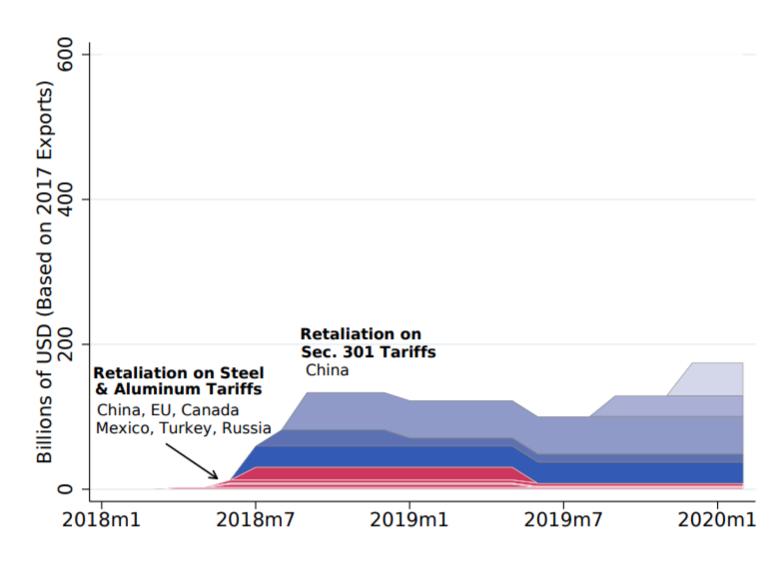


Figure B1: Composition of New U.S. Import Tariffs: 2018-2019



Source: Flaan & Pierce 2020

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



Source: Flaan & Pierce 2020



## **Trade War**





Source: CNBC.com

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.

### Other Policies to Discourage Globalization



#### Undermine the WTO

- Trump blocks appointments at WTO, disabling the Dispute Settlement Body

#### Export bans

- To keep food cheap at home
- To keep medical supplies at home

#### Immigration restrictions

- Trump blocks travelers from target countries
- US and others block refugees





### Effects of the Pandemic on Globalization



- Effects of the Pandemic on Economies
  - Travel halted
  - Stock markets fall
  - Factories shut down
  - Supply chains interrupted
  - Trade plummets
  - Unemployment
  - Reduced GDP
  - Panic buying and shortages

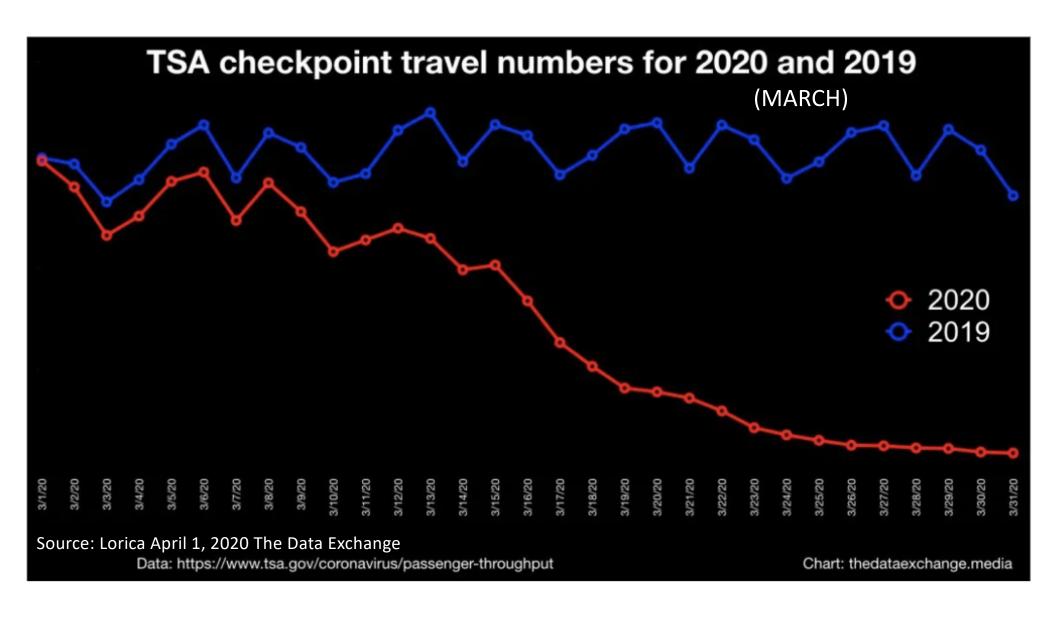


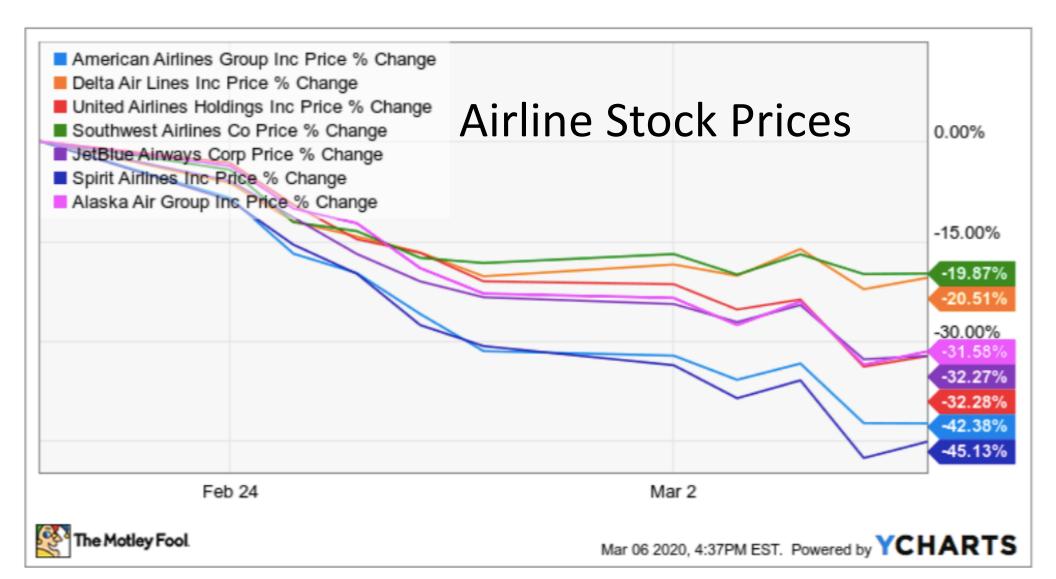




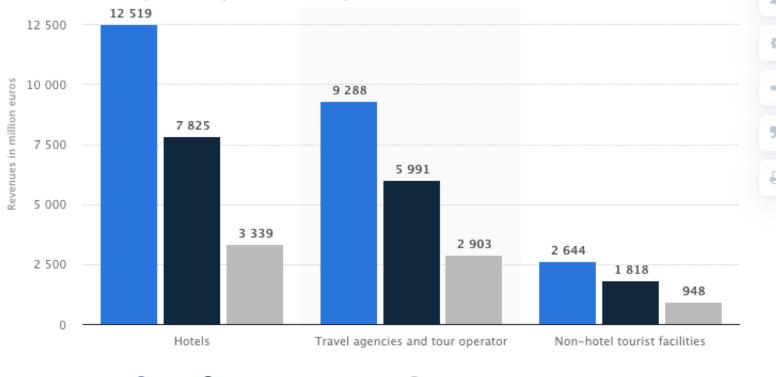
## Travel











2019 2020 (best-case scenario) 2020 (worst-case scenario)

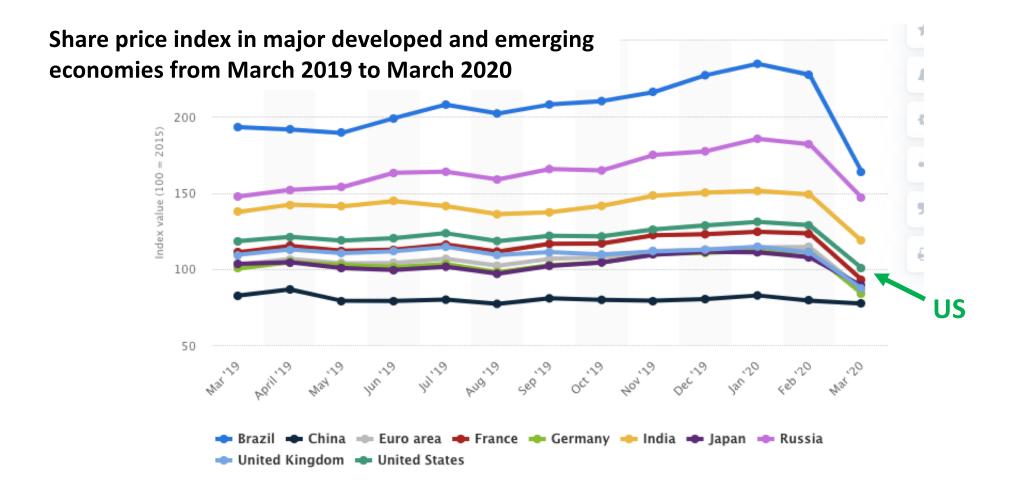
© Statista 2020 )

Source: Statista



## **Stock Markets**





© Statista 2020

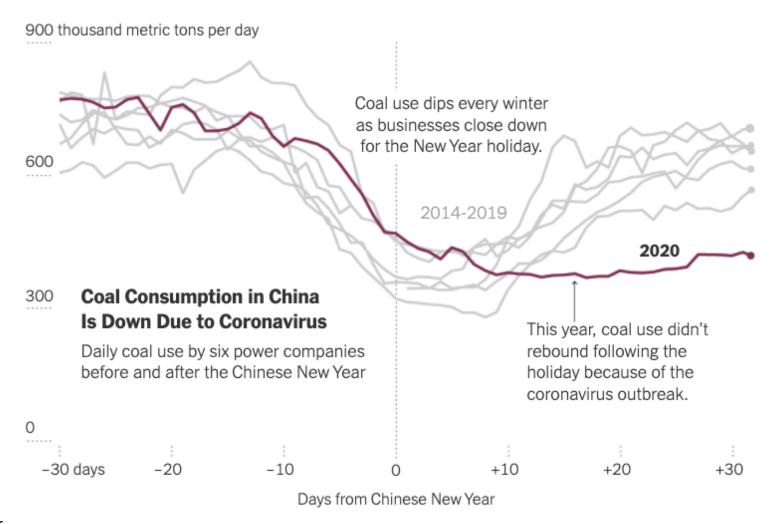
Source: Statista



# **Factory Shut-downs**





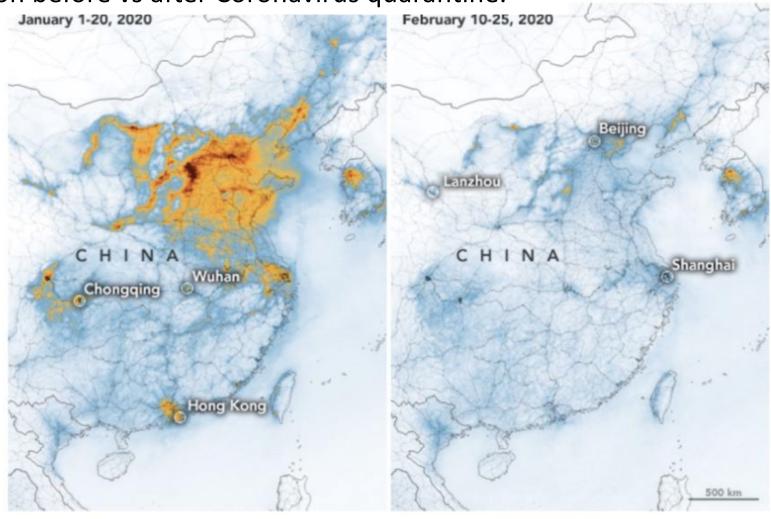


Source: Plumer

et al. Mar 6, Sou 2020, NYT Yor

Source: Centre for Research on Energy and Clean Air, based on data from WIND • By The New York Times

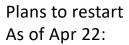
Pollution before vs after Coronavirus quarantine.



NASA

#### Where have vehicle assembly plants closed?

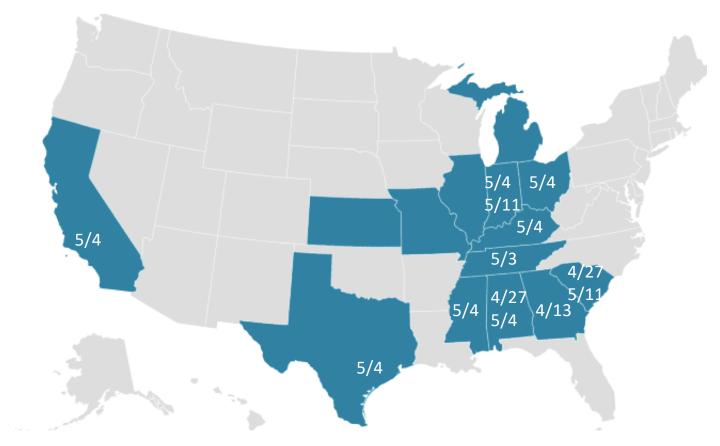
Click on a state in blue to learn more.



Ford: None GM: None

FCA: sometime after May 3

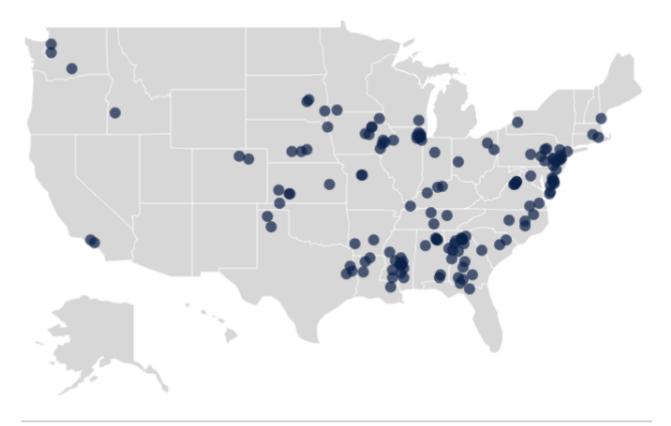
Others: See map



Source: Automotive News, March 25, 2020

#### **Meat packing and COVID-19**

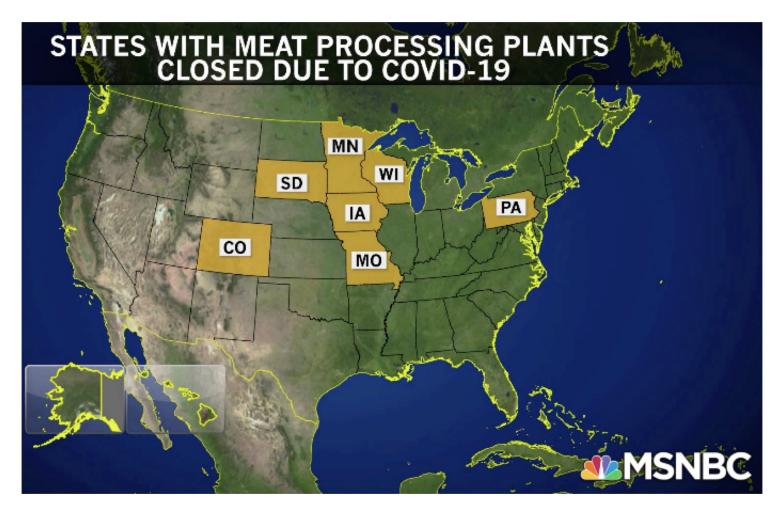
The map shows large meat packing factories in U.S. counties with an infection rate greater than 104 per 100,000 residents – a higher COVID-19 infection rate than 75 percent of US counties.



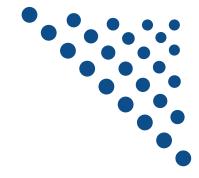
Source: *USA Today* Apr 22

SOURCE: USDA; Johns Hopkins University; WHO; CDC; USA TODAY Analysis

CARLIE PROCELL/USA TODAY



Source: *MSNBC* Apr 20

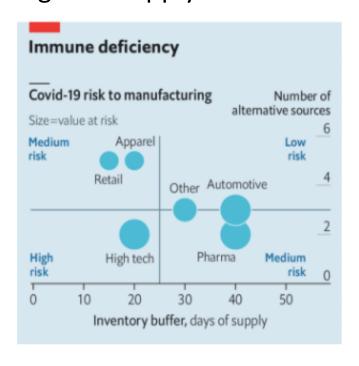


# **Supply Chains**





### The new coronavirus could have a lasting impact on global supply chains





Source: Economist



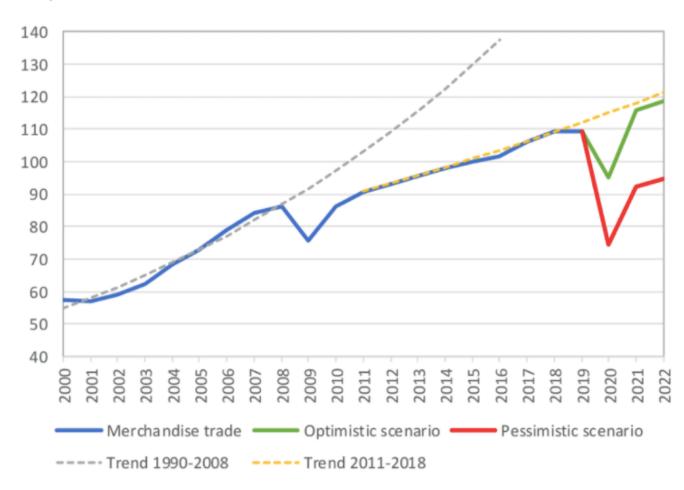


## Trade



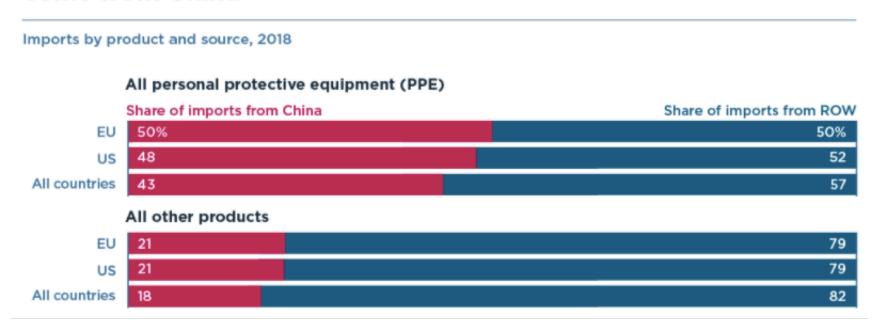
Chart 1 - World merchandise trade volume, 2000-2022

Index, 2015=100



Source: WTO Secretariat.

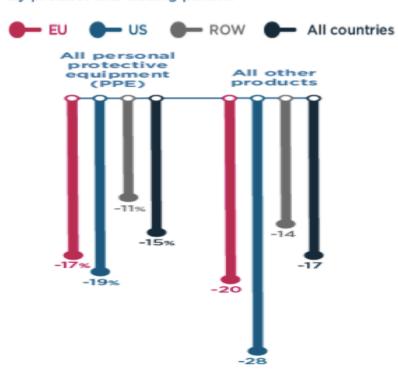
### Much of the world's imports of personal protective equipment come from China



Source: Bown (2020)

### China's exports of personal protective equipment fell less than its exports of other products

China's export growth in January and February 2020 relative to January and February 2019, by product and trading partner



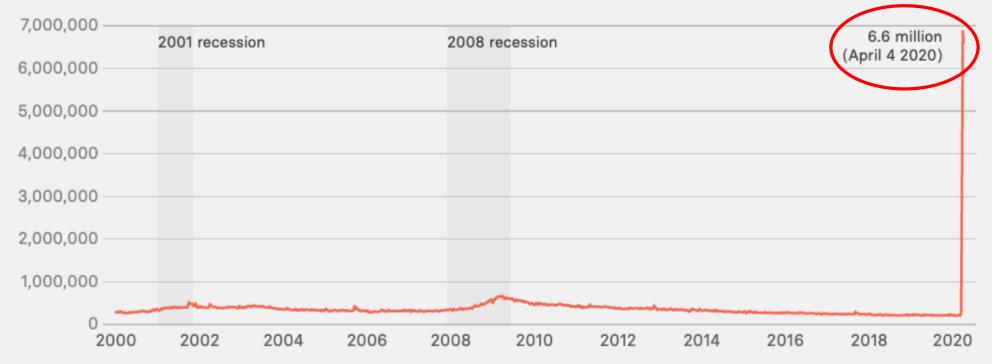
Source: Bown (2020)



# Unemployment





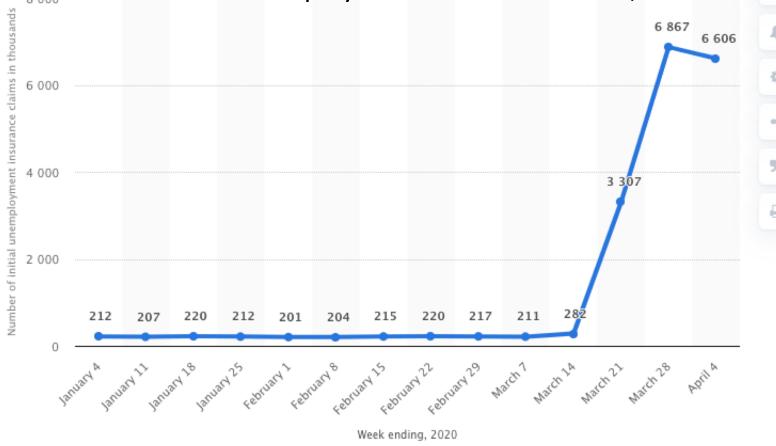


Notes: National data are seasonally adjusted.

Source: Department of Labor, NBER

Source: Buzzfeed





© Statista 2020 )

Source: Statista

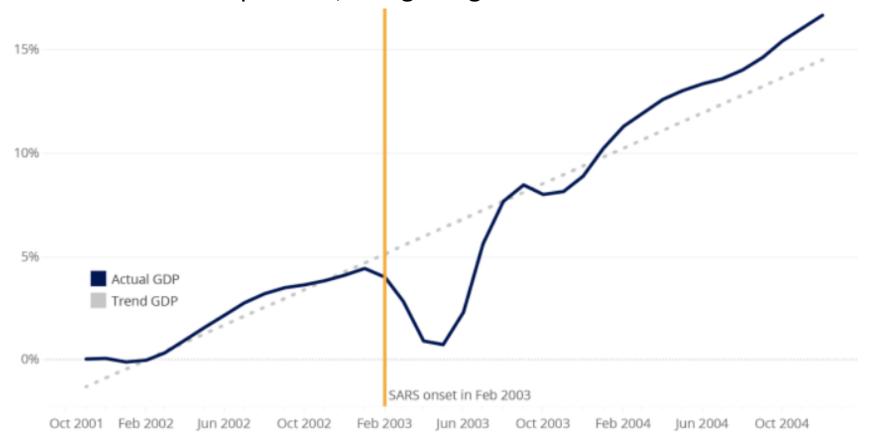




## **GDP**



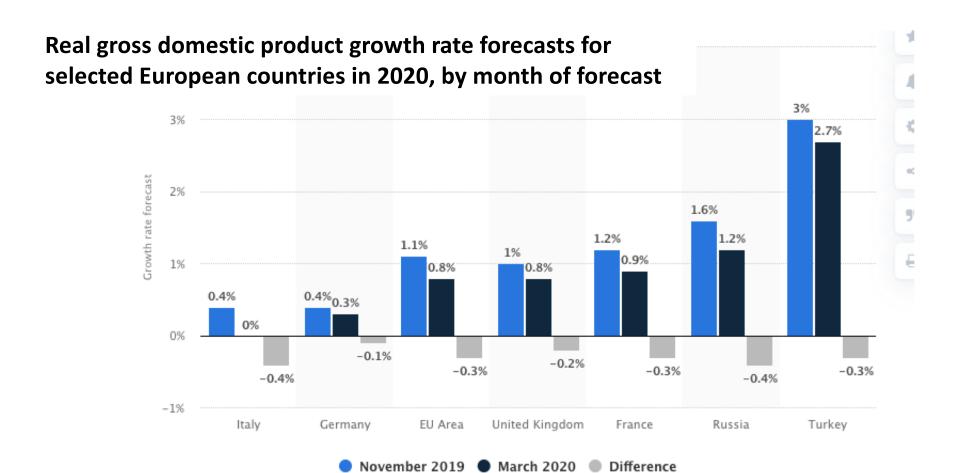
SARS Epidemic, Hong Kong: GDP 2001-2004



Zillow Economic Research | Source: Hong Kong Monthly Digest of Statistics, various issues.

Source: Gudell 2020

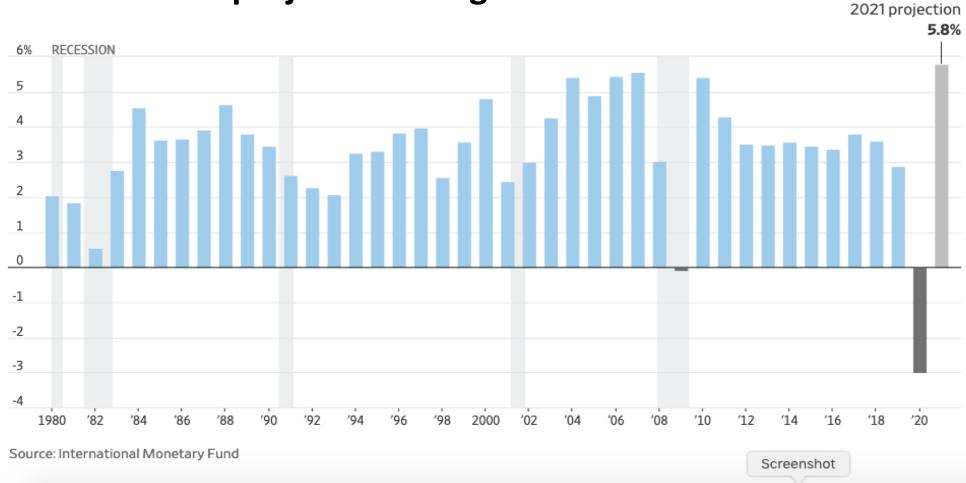
Hong Kong GDP growth during the SARS outbreak



© Statista 2020 )

Source: Statista

### Historical and projected change in world real GDP



Source: WSJ Apr 15, 2020

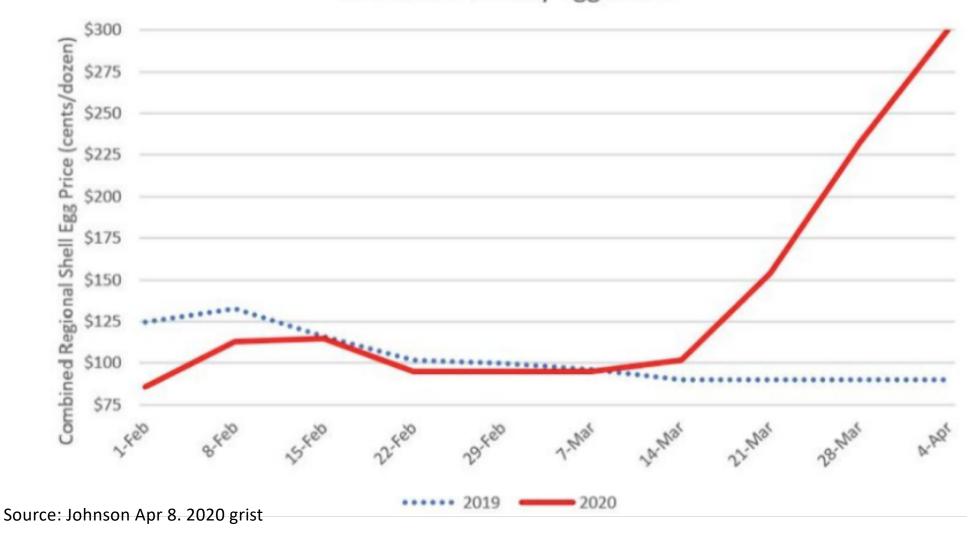


# Shortages

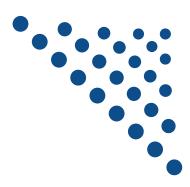




#### Wholesale Weekly Egg Prices

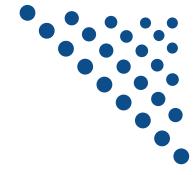


### Effects of the Pandemic on Globalization



#### Effects of the Pandemic on Policies

- Travel restrictions
- Export bans
- Requests for reduced tariffs



## **Travel Restrictions**

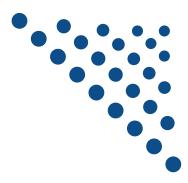






Source: Wikipedia



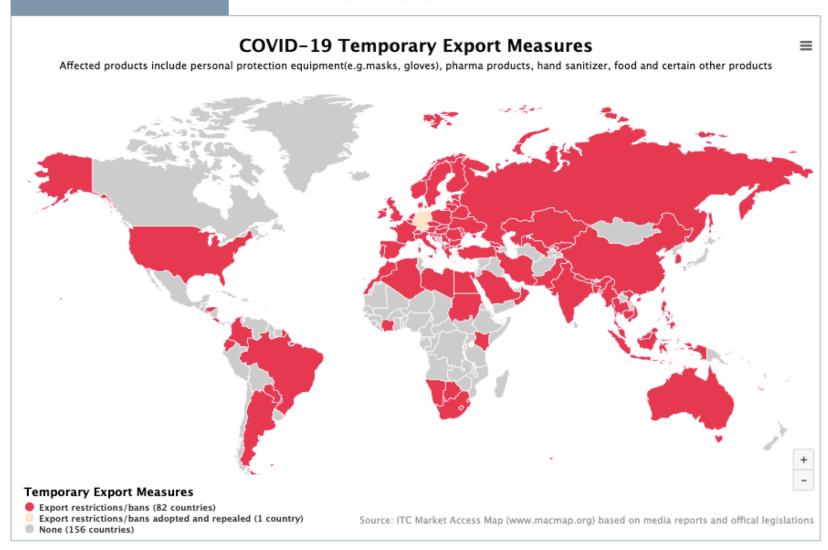


- Headlines on Travel restrictions
  - Jan 31, NYT: Trump Administration Restricts Entry Into U.S. From China
  - Mar 10, NYT: U.S. to Suspend Most Travel From Europe



## **Export Bans**





Source: ITC





#### Headlines on Export bans

- Mar 19: Sickening thy neighbour: **Export restraints** on medical supplies during a pandemic
- Apr 3, NYT: Trade **Restrictions on Food Exports** Due to the Coronavirus **Pandemic**
- Apr 8, WP: As borders harden during pandemic, some countries look to hold on to their own food
- Apr 8, WSJ: U.S. to Restrict Mask, Glove Exports for Four Months During Coronavirus Pandemic
- Apr 10, Bloomberg: Food Supply Fears Are Growing as Romania Bans Grain **Exports**







# Reduced Tariffs (?)







#### Headlines on Reduced Tariffs (?)

- Mar 16 NYT: U.S. Weighs Tariff Relief but Some Fear China Will Take Advantage
- Mar 19 WSJ: Trump Spurns Business **Plea to Ease Tariffs** Amid Coronavirus
- Mar 24 FT: **Drop the tariffs** and save some lives. Quick
- Mar 26 WSJ: U.S. Will Approve Some **Delays in Tariff Payments** Amid Coronavirus Crisis
- Mar 31 FT: Trump to **suspend some tariffs** for 90 days
- Apr 2 NYT: Trump Rebuffs Demands to **Lift Tariffs** as Economy Falters
- Apr 13 WSJ: U.S. Tariffs Hamper Imports of Sanitizer, Disinfectants, Some **Companies Say**
- Apr 20 FT: **Trump exempts** virus-hit US businesses from import tariffs







# **Globalization's** Future?

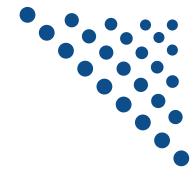




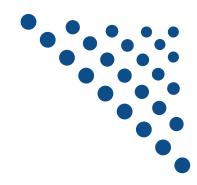
### **Globalization's Future?**

- Will trade, travel, etc. come back?
  - Yes, partly
- Will it reach the previous trend
  - Probably not.
  - It didn't after the financial crisis
- Will attitudes change?
  - Yes.
  - Firm's will try to limit exposure
  - Consumers will learn to live differently
- Will economists' view of globalization change?
  - I think so.
  - We still think globalization is good, but it should include greater protections









### **Any Questions?**

Alan V. Deardorff
Ford School of Public Policy
University of Michigan

www.NEEDelegation.org



