



COVID-19: Economic Implications and Policy Response

San Rafael Evening Rotary Club March 31, 2020 Jon Haveman, Ph.D.





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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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Honorary Board: 47 members

- 2 Fed Chairs: Janet Yellen, Ben Bernanke
- 6 Chairs Council of Economic Advisers
 - o Furman (D), Rosen (R), Bernanke (R), Yellen (D), Tyson (D), Goolsbee (D)
- 3 Nobel Prize Winners
 - o Akerlof, Smith, Maskin

Delegates: 500+ members

- At all levels of academia and some in government service
- All have a Ph.D. in economics
- Crowdsource slide decks
- Give presentations

Global Partners: 45 Ph.D. Economists

- Aid in slide deck development



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Available NEED Topics Include:

- US Economy
- Climate Change
- Economic Inequality
- Economic Mobility
- US Social Policy
- Trade and Globalization
- Trade Wars

- Immigration Economics
- Housing Policy
- Federal Budgets
- Federal Debt
- 2017 Tax Law
- Autonomous Vehicles



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Credits and Disclaimer



• This slide deck was authored by:

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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).



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- What does economics offer?
- Economic implications
- Vulnerabilities
- Evidence
- Policy



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- Insight into the transition of the virus from health to the economy.
- Data on the magnitude of economic vulnerability.
- Cost benefit analysis of social distancing.
- Insight into government response:
 - Appropriate targets of government policy
 - Evaluation of current measures
 - Fiscal and monetary policies
 - What else might be done and why?



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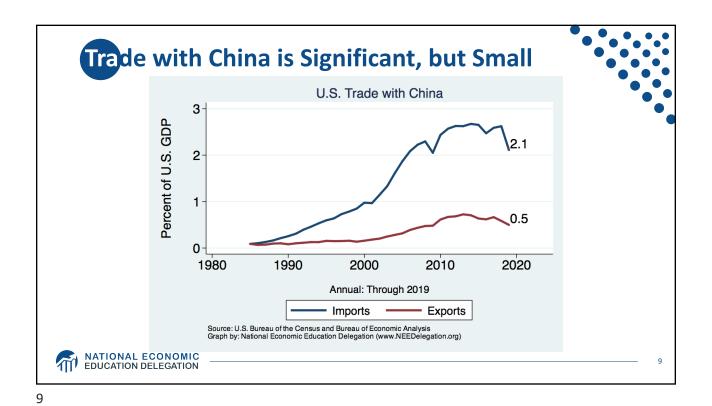
Perfect Storm for the Economy



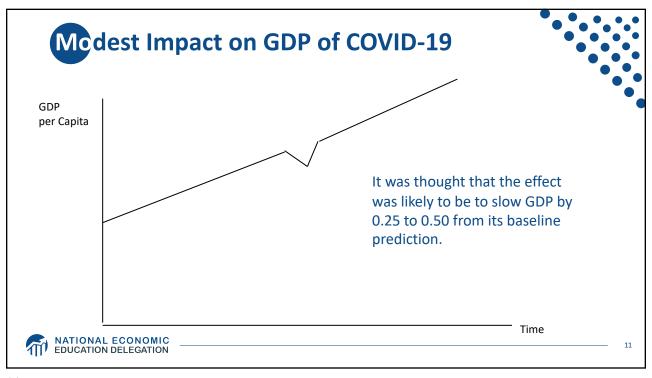
- Supply side
- Demand side
- Financial



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Coronavirus: Supply Chains Wingtips . KAA (Korea • Boeing 787 Dreamliner Fixed & Movable Leading Edge Movable Trailing Edge Hawker de Havilland (Australia) • Parts and components from Wing Mitsubishi (Japan) Fixed Trailing Edge Kawasaki (Japan) suppliers all over the world: - Japan Forward Fuselage Kawasaki (Japan) - Italy Center Fuselage Alenia (Italy) - China - Australia - ... Rudder Chengdu Aircraft Corp. Ltd. (China Nacelles Goodrich (US) NATIONAL ECONOMIC EDUCATION DELEGATION





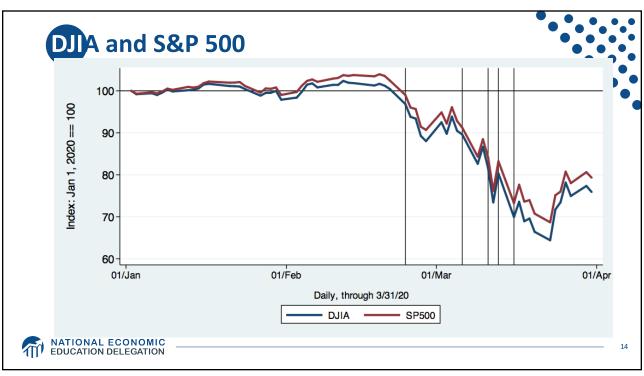




- Stock market
 - Postpone major purchases
- Event cancellations
 - More broadly tourism
- Universal pseudo-quarantine
 - Work from home
 - Eat at home
 - Watch movies at home



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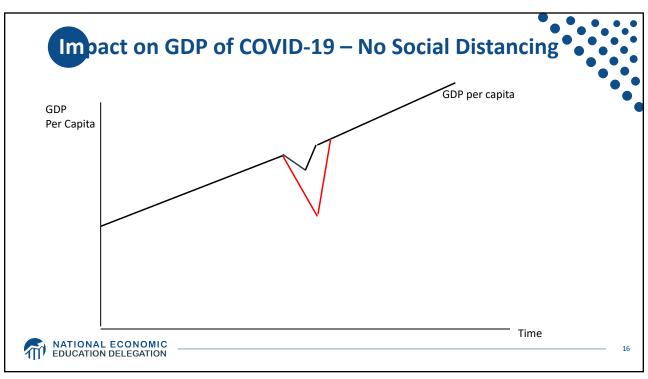


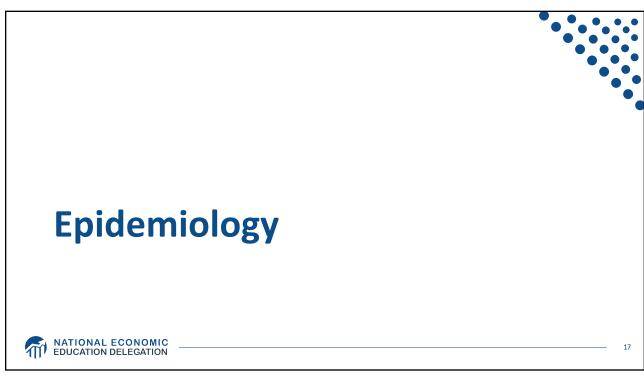
Particularly Vulnerable Industries Industry

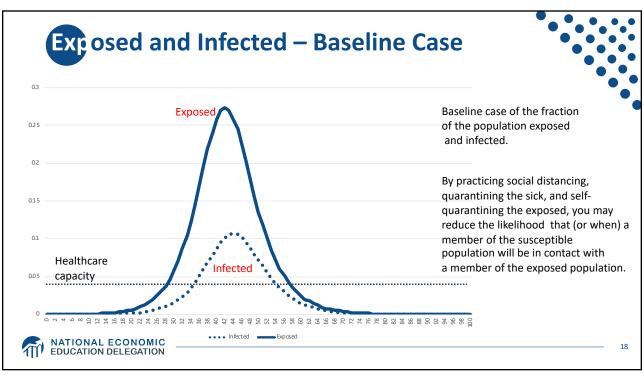
Industry	Share of GDP
Arts, entertainment, and recreation	1.1
Management of companies and enterprises	1.9
Other services, except government	2.1
Accommodation and food services	3.1
Transportation and warehousing	3.2
Retail trade	5.5
Educational services, health care, and social assistance	8.7
Manufacturing	11.3
Real estate and rental and leasing	13.3
Total	50.2

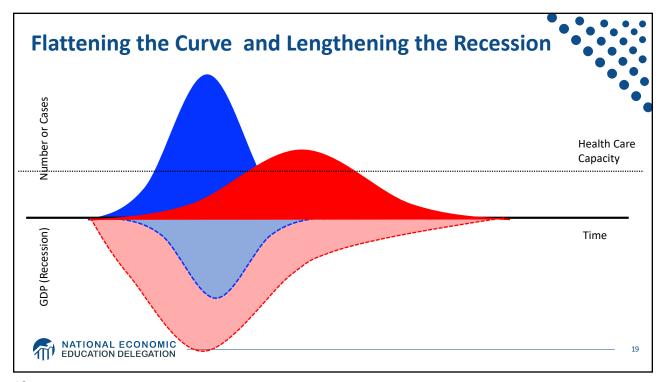


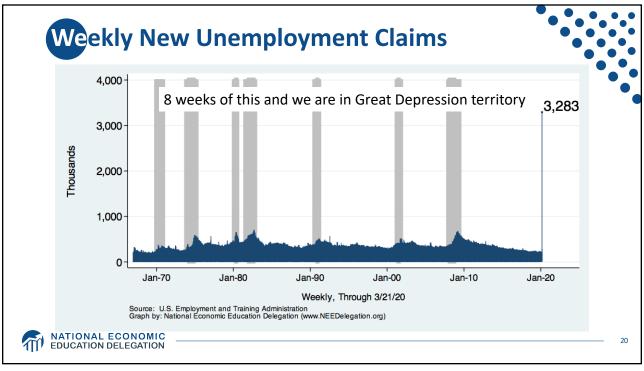
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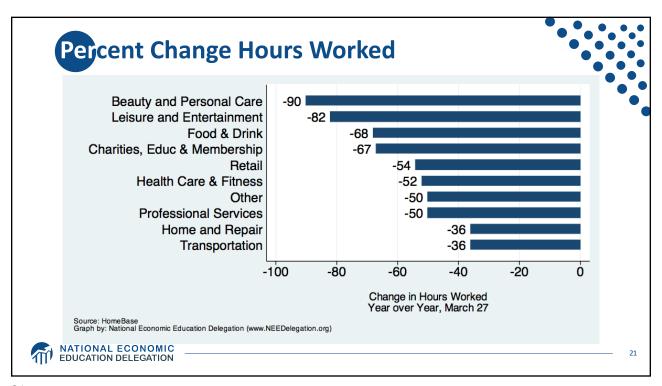


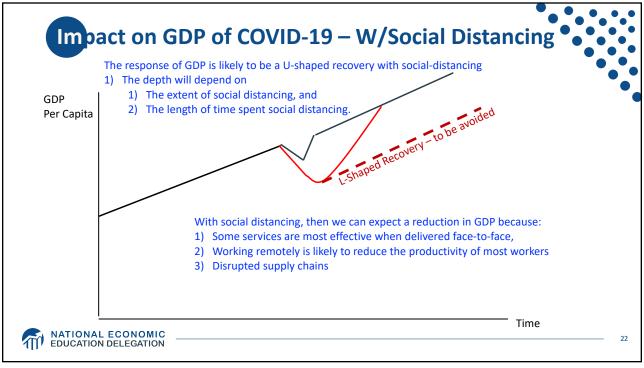


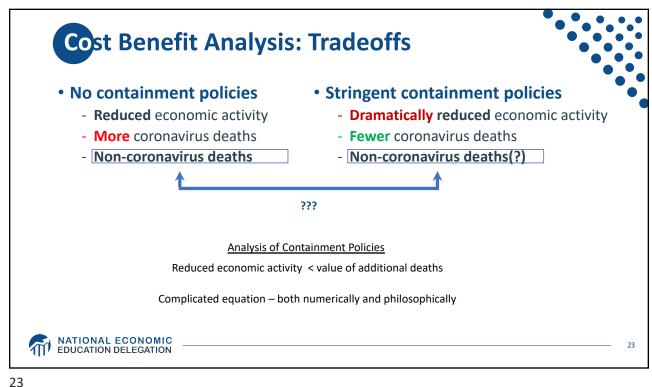












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• Value of a statistical life: \$5-14 million • Depends on what the right value of a life is. • Depends on net difference in # of deaths. • Size of the economy: ~\$2 trillion per month • Depends on economic impact • Of containment polices • Of unabated virus



BOTE: Back Of The Envelope



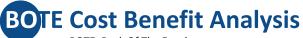
- we think that social distancing reduces the number of deaths by 600,000
- Benefit of Saved Lives is: \$4.2 Trillion
- Survivors may face long-term health effects 2 million valued each at \$500,000
- Survivor Cost: \$1 Trillion
- Total Benefit of Social Distancing: \$5.2 Trillion



https://twitter.com/BetseyStevenson/status/1242180499566669828

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BOTE: Back Of The Envelope



- Cost of "Shelter in Place" or "Lockdown"
- The cost of a non-workday reduces unadjusted quarterly GDP by about 0.4%.
- There are about 60+ workdays in a quarter and we lost about 1/8 or March.
- The cost of a "lockdown" is roughly \$1.3 Trillion



http://caseymulligan.blogspot.com

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Economic Crisis Tools

Fiscal and Monetary Policy



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Priorities for Policy



- Policies to protect public health
 - Long run benefits for the economy.
 - Though there may well be short run pain.
- Policies to protect the economically vulnerable
- Policies to maintain resiliency of the economy
 - Help firms stay in business, maintain ties with workers
- Policies to stimulate aggregate demand
 - Long run once the economic switch is turned back on



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Fiscal Policy Timeline

Phase	Amount (\$ bn)	Action
Phase 1 March 6	\$8	Emergency response, health care, vaccine development, prevention
Phase 2 March 18	\$100	Paid sick leave, unemployment insurance, free virus testing
Phase 3 Pending	\$250 \$250 \$350 \$100 \$17 \$500 \$180 \$100	Direct cash payments to families with income cap; \$1,200 per adult, \$500 per child Enhanced unemployment benefits Small business loans up to 250% of monthly payroll Corporate tax changes Community lending Loans & loan guarantees for businesses, incl. airlines State and local governments & Education Hospitals
TOTAL	\$1.5-2.5 Trillion	7-12% of GDP



Source: J.P. Morgan Asset Management, Data are as of March 23, 2020.

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The Most Important Roles of Monetary Policy

I. Macroeconomic Stabilization

- Raise aggregate demand by changing interest rates. To raise demand it needs to lower interest rates
 - 1. Traditional Monetary Policy uses open market purchases of short-term US Treasuries to lower short-term interest rates (in particular the federal funds rate).
 - Quantitative Easing (QE) is where the Fed buys long-term Treasuries and Mortgagebacked securities to more directly affect these rates,.

II. Insuring Liquidity in Lending Markets by acting as the "Lender of Last Resort"

- The Fed has unlimited access to dollars and when the private sector does refuses to make illiquid loans, the Fed can. This ensures that borrowers have access to credit.
 - The Fed can make loans directly or by buying new debt issues (thereby increasing "market liquidity.")
 - 2. The Fed can also provide loans to intermediaries, so that they in turn can provide loans to customers. (there by increasing "funding liquidity")



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Macroeconomic Stabilization:



I. Short-term Interest Rates

- 1. March 3, the Fed lowers the target range for the federal funds rate from 1.75-1.5 percent to 1.25-1.0 percent.
- 2. March 15, the Fed lowers the target range to 0.25-0.0 percent, essentially 0.

II. QE

- 1. March 15, the Fed announces a QE program
 - 1. \$500 billion in Treasuries and
 - 2. \$200 billion in agency mortgage-backed securities.
- 2. March 23, QE is unlimited and should include commercial mortgage-backed securities



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Insuring Market Liquidity



March 17-23, the Fed announced

- 1. The Primary and Secondary Market Credit Facilities which will allow the Fed to buy corporate bonds so that companies can continue to pay workers.
- 2. The Commercial Paper Funding Facility which will allow the Fed to buy short-term debt of companies.
- 3. A Main Street Business Lending Program where the Fed will aid the Small Business Administration in making loans.



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Insuring Funding Liquidity



March 17-23, Lending Facilities for

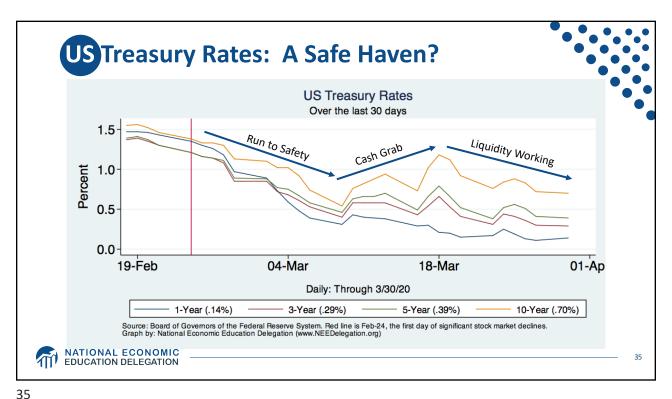
- 1. Money Market Mutual Funds who buy commercial paper.
- 2. Primary Dealers who provide short-term financing in may different asset markets, such as repurchase agreements (repos).
- 3. Financial Institutions that trade state and local municipal bonds.
- 4. Foreign central banks, so that they can be "lenders of last resort" for foreign financial institutions who want dollar liquidity.



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Monetary Policy Timeline Action Fed Funds Rate Lowered March 3 1.75-1.5 to 1.25-1 Fed Funds Rate Lowered to 0.25-0 March 15 Announced QE of \$700 billion **Commercial Paper Funding Facility** March 17 **Primary Dealer Credit Facility** Money Market Mutual Fund Liquidity Facility March 18 Primary Market Corporate Credit Facility Secondary Market Corporate Credit Facility March 23 Term Asset-Backed Securities Loan Facility **Unlimited QE TBA** Main Street Business Lending Program MATIONAL ECONOMIC EDUCATION DELEGATION



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What is next and what else can be done? How do we pay for it? Run larger deficits Run the printing press MMT Firms and/or individuals borrow through Treasury Additional fiscal measures. Buyer of last resort (Piketty and Zucman) Employer of last resort (MMT) Additional cash disbursements. Ultimately: more fiscal policy to restart the economy.



What have we learned? Positive Take-Aways

- May improve the delivery of some services.
- Encourage firms, households, governments to have a business continuity plan.
- In an integrated world, this will likely not be the last pandemic...
 - Improve social insurance for these types of events.
 - Allow more flexibility to governments and firms to respond.
- Potential learning to be carried forward:
 - Telecommuting
 - Telehealth
 - The value of the "walk around the block".



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Big Open Questions

- When will the dust settle?
- When the dust settles:
 - How close will ties be between businesses and their pre-CV employees?
 - How much will the business environment change?
 - o More automation?
 - o More telecommuting?
- Broadly speaking: How quickly can things bounce back?
- What will the overall economic cost be.







- COVID-19 is a health crisis that has extreme macroeconomic implications.
- Negative GDP growth 2020:Q2. -25% is possible.
- The macroeconomic effects are derived from a perfect storm.
 - Supply, demand, and financial.
- Fiscal and monetary response should be targeted at health crisis first and income and employment maintenance.
- Broad agreement among economists: Cure < Disease
- Have to be ready to stimulate the economy when health crisis is over.



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Any Questions?

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