

Upstate Entrepreneur Ecosystem

The Current and Future Impact of COVID-19 for Upstate Entrepreneurs
• May 5, 2020 PRESENTING SPONSOR

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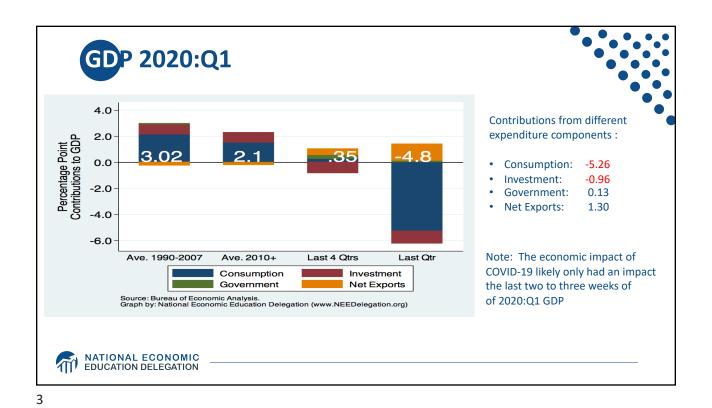


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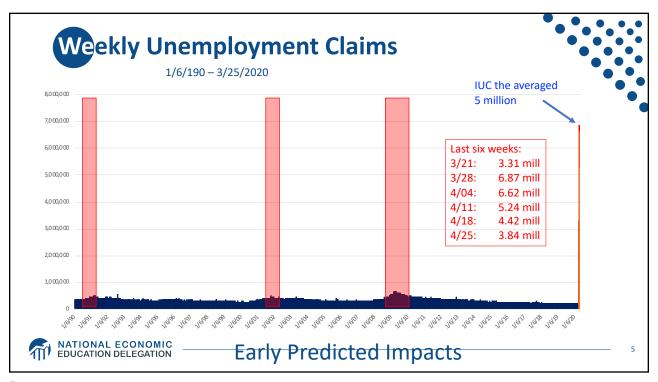
COVID-19: Economic Implications and Policy Response

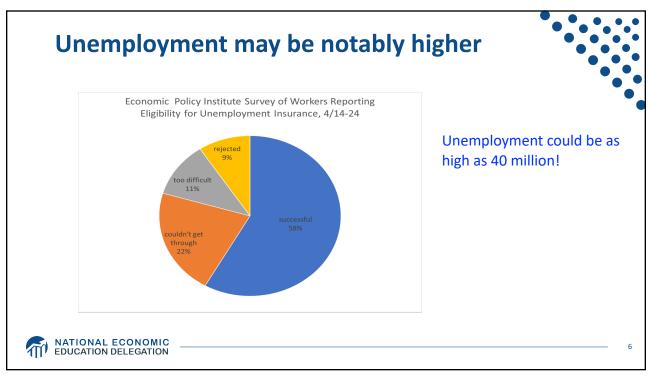
Scott L. Baier
Clemson University
and
National Economic Education Delegation



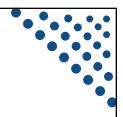


Weekly Unemployment Claims: 1/1990 – 3/2020 70 0,00 0 When the economy is 60 0.00 0 doing well, initial claims for unemployment average 50 0,00 0 about 280,000 to 340,000. 40 0,00 0 During recessions, 30 0,00 0 initial claims typically increase to about 400,000 20 0,00 0 -- the biggest increase had 665,000. 10 0,00 0 NATIONAL ECONOMIC EDUCATION DELEGATION



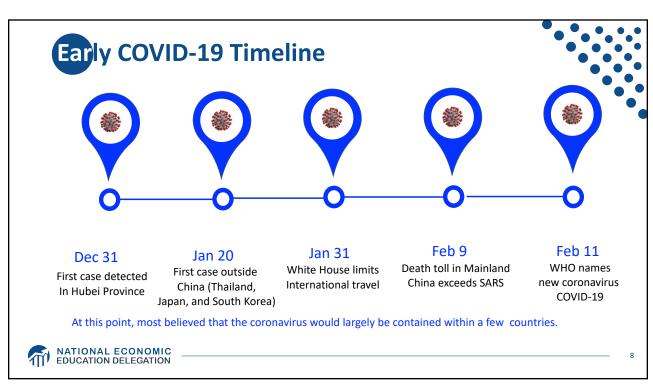




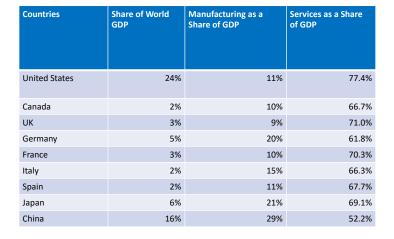


- Initially, it was believed that COVID-19 would only have modest impacts on the US and World Economies.
- · What changed?
- Flattening the COVID-19 and Deepening the Recession
- Policy response
- Growth Projections





Coronavirus: Supply Chains



If contained, COVID-19 would mainly disrupt manufacturing supply chains.

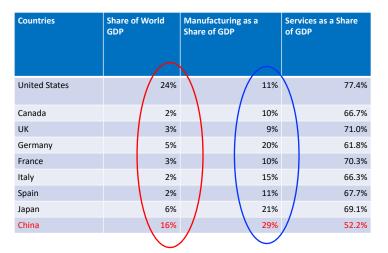
The more a country's manufacturing relied on these supply chains the bigger the impact on GDP.



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Coronavirus: Supply Chains



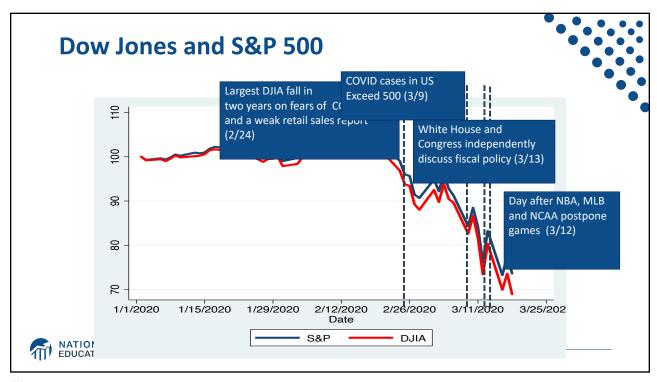
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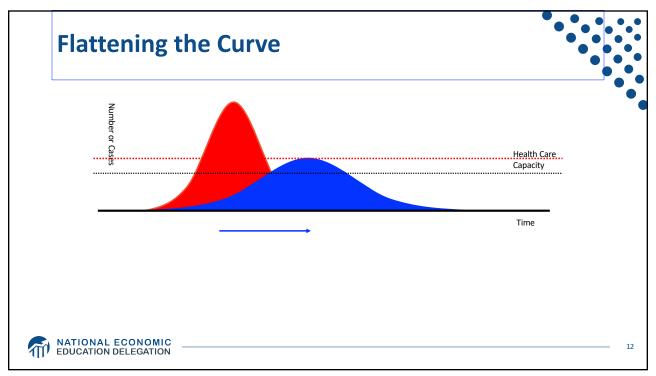
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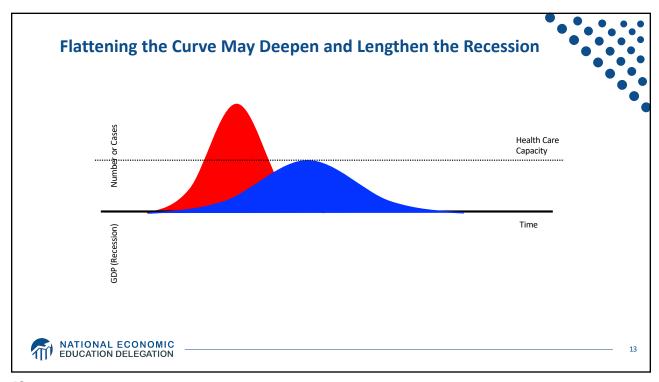
If limited to supply chain effects, COVID-19 was likely to be to slow GDP by 0.25 to 0.50 from its baseline prediction – say from 2.5 to 2%

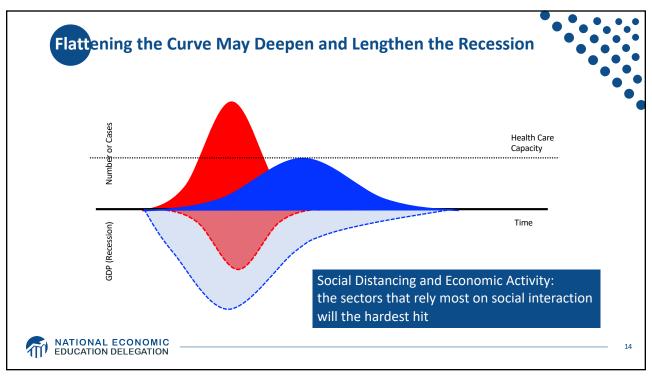
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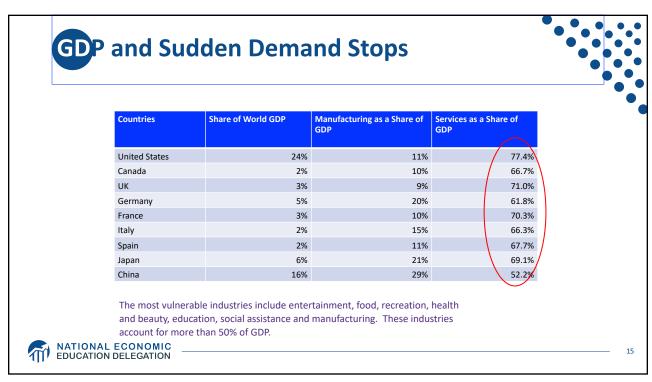
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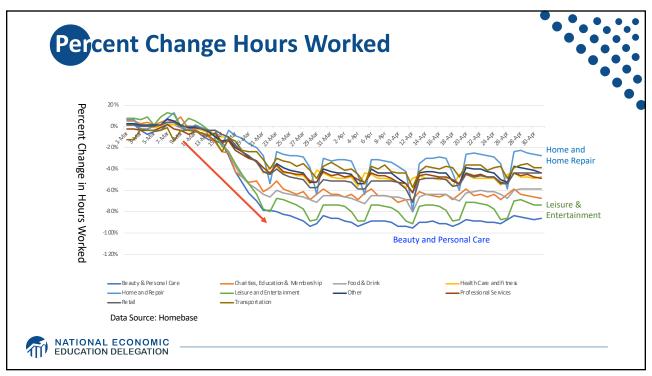


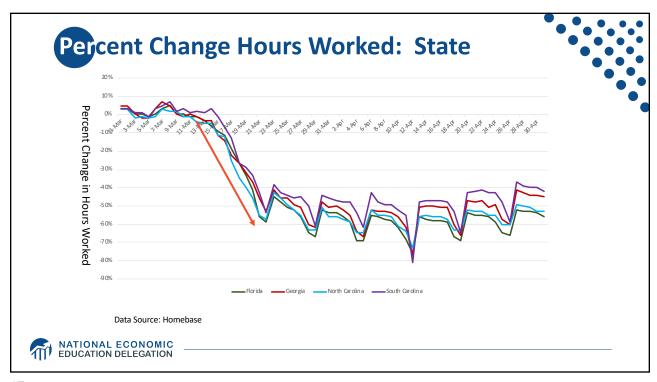


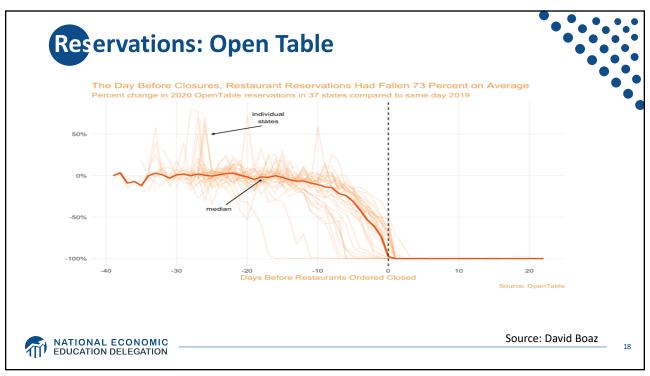


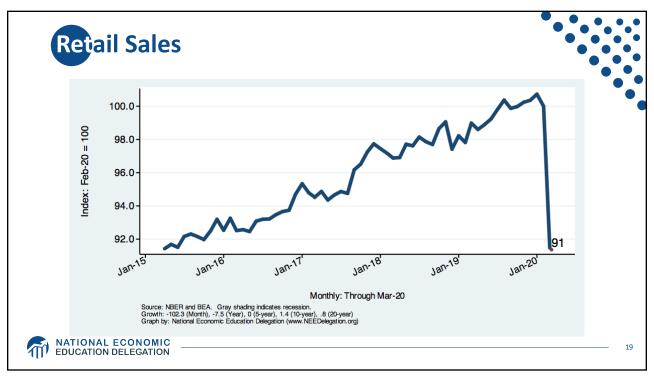


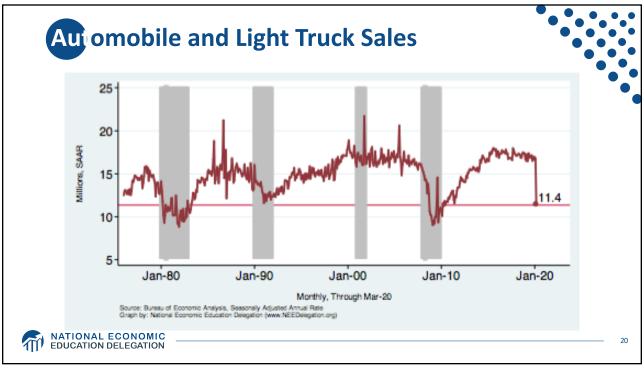












GDP Shares and Impact of COVID-19



US GDP growth in 2009 -2.54%

Source: World Bank, Johns Hopkins Coronavirus Resource Center, Worldometer



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No containment policies Reduced economic activity More coronavirus deaths Non-coronavirus deaths Non-coronavirus deaths Analysis of Containment Policies Reduced economic activity Pewer coronavirus deaths Non-coronavirus deaths(?) Analysis of Containment Policies Reduced economic activity < value of additional deaths Complicated equation – both numerically and philosophically

BOTE Cost Benefit Analysis

BOTE: Back Of The Envelope



- \$7 million/life and 600,000 lives saved (\$4.2 trillion)
- Long term health issues avoided: 2 million at \$500,000 (\$1 trillion)
- Total Benefit of Social Distancing: \$5.2 Trillion

COSTS of "Shelter in Place" or "Lockdown"

- There are about 70+ workdays in a quarter (plus March).
- The cost of a "lockdown" is roughly \$1.3 Trillion

Benefit: \$5.2 trillion > Cost: \$1.3 trillion



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

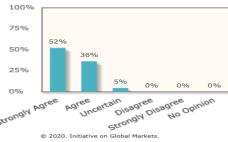
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University of Chicago – Experts Poll

Policy for the COVID-19 Crisis

Question A: A comprehensive policy response to the coronavirus will involve tolerating a very large contraction in economic activity until the spread of infections has dropped significantly.



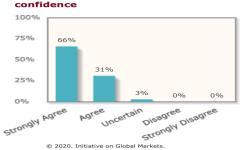


Source: IGM Economic Experts Panel www.igmchicago.org/igm-economic-experts-panel

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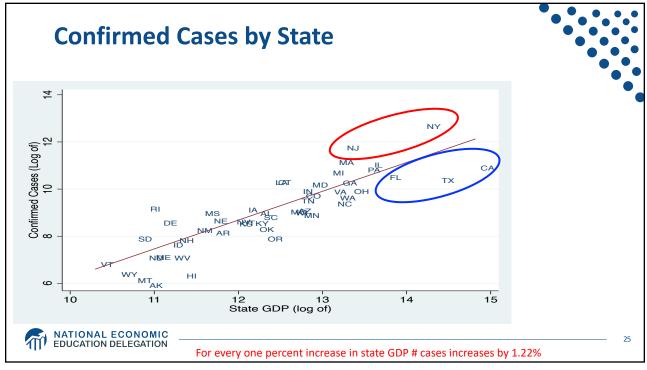
Responses weighted by each expert's



Source: IGM Economic Experts Panel www.igmchicago.org/igm-economic-experts-panel

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- This economic shock is a "health shock" with externalities that have (large) macroeconomic consequences.
- The fiscal and monetary response is not one where we can or should think about Keynesian versus Classical Solutions.
- Response should be to target the cause of the problem and provide income support for individuals and some financial support for firms.
 - Cause of the problem is COVID-19 and its contagion.
 - Social distancing reducing income and production
 - (We hope) The economic shock is not structural and on the "other side".
 We hope that structurally things will be the same; therefore, we would like to preserve employment-employer matches.



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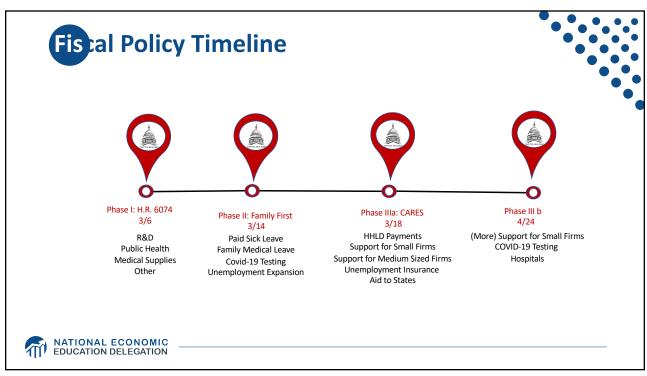
Go ernment Response: Fiscal Response



- Respond to the impacted sector(s) health crisis,
- Provide income support for the lower income and most vulnerable,
- Provide support to maintain employer employee matches, and
- Provide support for the sectors that are most exposed to the shock.



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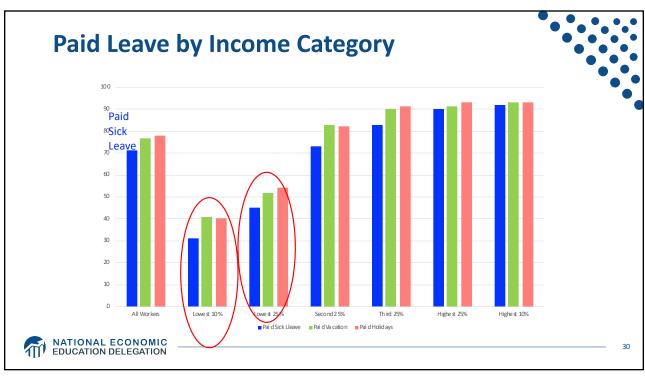




• Free testing for anyone whose doctor recommendations and (self) quarantines
• Expand family and medical leads support social distancing and (self) quarantines
• Paid emergency crease testing and support social distancing and (self) quarantines
• Paid emergency crease testing and support social distancing and (self) quarantines
• Clearly this is designed to increase testing and support social distancing and (self) quarantines and Home-Delivered Nutritional Services



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Fiscal Response: CARES Act (H.R. 748)

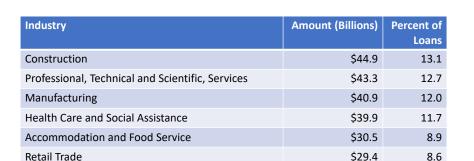
- 5500 for
- Direct payment to households \$1,200 for every adult and \$500 for every child similar to the 2008 rebate but purpose is different.
- Small business loans (Paycheck Protection Program)-- \$350 billion
 - <500 employees and designed to cover six (6) weeks of payroll.
- Economic Stabilization Fund (Main Street Lending Program) \$500bn
 - for medium sized firms,
 - state and local municipalities, and
 - passenger and cargo air carriers, and firms maintaining national security.
- Expand unemployment benefits



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PP: Major Recipients By Industry



These seven (7) industries account for nearly 75% of the PPP loans

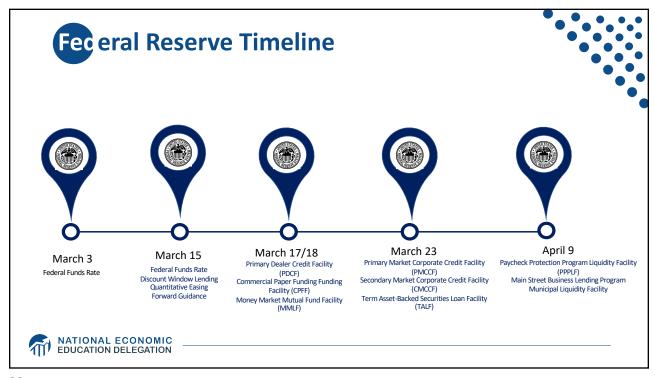
\$19.5

5.7



Wholesale Trade

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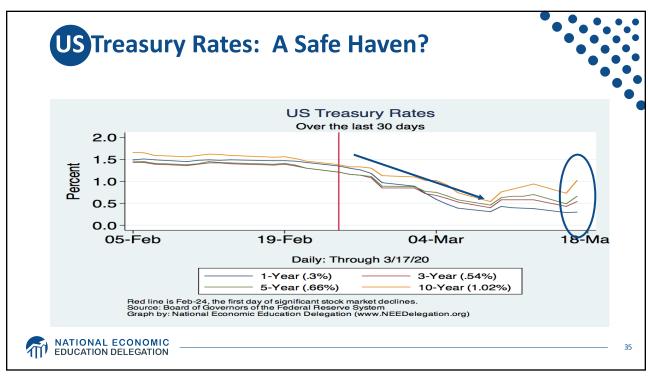




- Federal Funds Rate: The Federal Reserve lowered the targeted Federal funds rate on March 3 and again on March 15 moving the targeted Federal Funds rate to zero.
- **Discount Window Lending:** Lowered the interest rate it charges banks to borrow from 1.75% to 0.25%.
- **Reserve Requirement:** Lowered the reserve requirement to zero.
- **Forward Guidance:** Honed during the Great Recession the Fed tries to set market expectations on the time path of interest rates over time.



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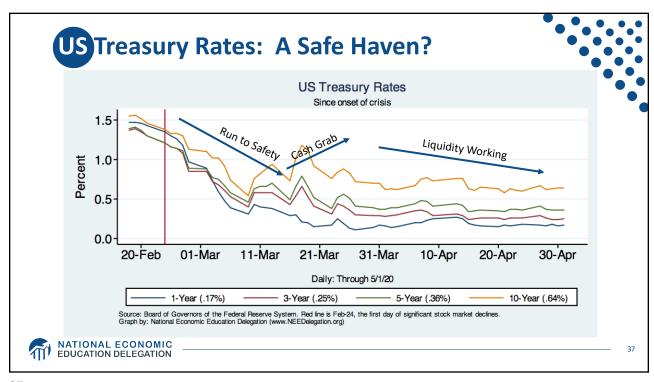


Federal Reserve: Ensure Financial Market Stability

- In mid-March, Treasury and Mortgage Backed Securities markets began behaving irregularly as the demand for liquidity increased.
 - Securities Purchases (Quantitative Easing): Fed Response: purchase treasuries and mortgage backed securities (3/15).
 - Re-launched the **Primary Dealer Credit Facility (PDCF)** in order "smooth market functioning and facilitate the availability of credit to businesses and households (3/17).
 - Re-instituted the Money Market Mutual Fund Liquidity Facility (MMLF) to "assist money market mutual funds in meeting demands for redemptions by households and investors enhancing overall market function and credit provision to the broader economy."
 - Increased liquidity in the repo market. The repo market is where firms borrow and lend cash and short-term securities. The Fed was offering \$100 billion in overnight loans and \$20 billion in two-week loans.
 - $_{\odot}\,$ The Fed increased the offerings to \$1 trillion (from \$100 bn) in overnight repos, and
 - o \$500 billion in one month and three-month repos (from \$20bn 2/wks).



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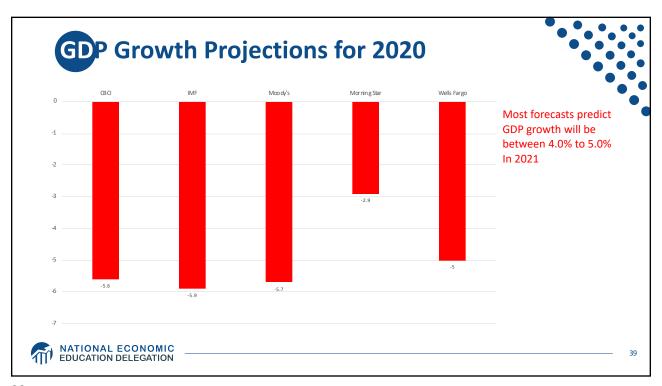


Federal Reserve: Support Corporations and Business

- Created the **Primary Market Corporate Credit Facility (PMCF)** allows the Fed to lend directly to corporations by buying new bond issuances and providing loans (3/17).
- Instituted the **Commercial Paper Funding Facility (CPFF)** the Fed can purchase commercial paper from firms at a given interest rate effectively, the Fed is lending directly to firms. (3/17)
- Main Street (Expanded) Loan Facility: Through the CARES Act these two programs offer four-year loans to US businesses with up to 10,000 employees or revenues less than \$2.5 billion. (4/9)
- Paycheck Protection Program Facility: Facilitates loans under the Small Business Administration Paycheck Protection Program



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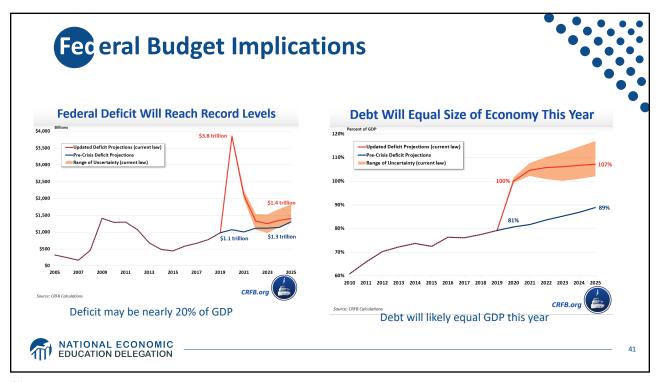


Unemployment Projections

- Mining, retail, transportation, arts and entertainment, hotels and restaurants, and misc. services account for only 15% of GDP, but roughly 30% of employment.
- We anticipate COVID-19 reduces GDP growth by 7% from its baseline forecast.
- It is likely that 60 percent of the decline in GDP is due to these sensitive sectors.
- Therefore, we might expect unemployment to increase from 3.5% to 8.5% from these sectors alone and the overall unemployment rate may reach 11.0-13% by year's end.



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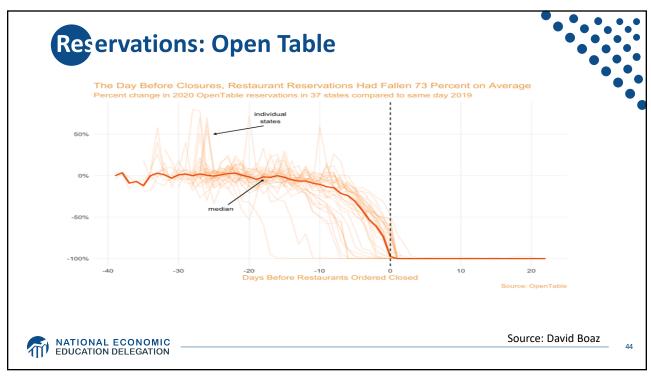
Oth er Events Canceled

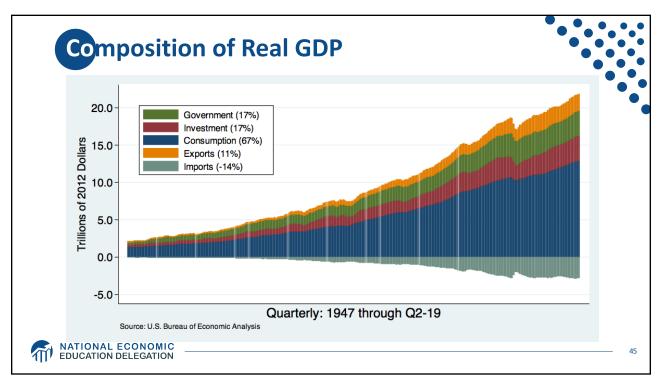
- March 6 SXSW canceled
- March 10 Ivy League cancels its basketball tournament
- March 11 March Madness will be played without fans
- March 12 March Madness canceled
- March 12 Cato Institute and Brookings Institution shift to mandatory telework
- March 13 Masters and Boston Marathon postponed
- March 15 CDC recommends cancellation of events involving 50+ people
- March 16 Kentucky Derby postponed
- March 19 California becomes the first state to issue a stay-home and business-closing order
- Early March: Clemson University began discussions of our contingency plans and canceling "non-essential" events that could potentially put individuals at risk.

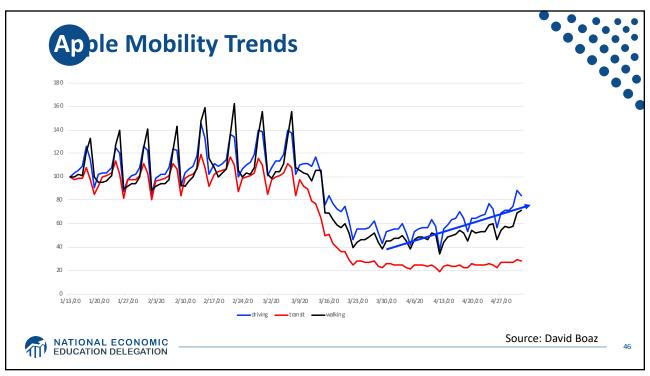


Source: David Boaz and Author

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- COVID-19 is health crisis that has macroeconomic implications.
- The macroeconomic effects that have impacted both the supply and demand.
- GDP will likely contract between 5.0 and 6.0 percent this year.
- Positive growth will likely return in 2021 as long as there are preventative medicines and treatments.
- No easy answers trade-offs are between bad outcomes.
- How do we plan for the next pandemic?
- Find the silver lining.

