



# COVID-19: Economic Implications and Policy Response

**Golden Gate Computer Society** 

June 22, 2020 Jon Haveman, Ph.D. Executive Director, NEED





1

### 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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### Who Are We?

- Honorary Board: 48 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



3

### Available NEED Topics Include:

- Coronavirus Economics
- US Economy
- Climate Change
- Economic Inequality
- Economic Mobility
- Trade and Globalization
- Trade Wars

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



4

4

# **Cre**dits and Disclaimer



- This slide deck was authored by:
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  - Geoffrey Woglom, Amherst College (Emeritus)

#### 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).



5

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- What is this?
- Evidence of Impact
- Government Policy
- What to expect going forward



6





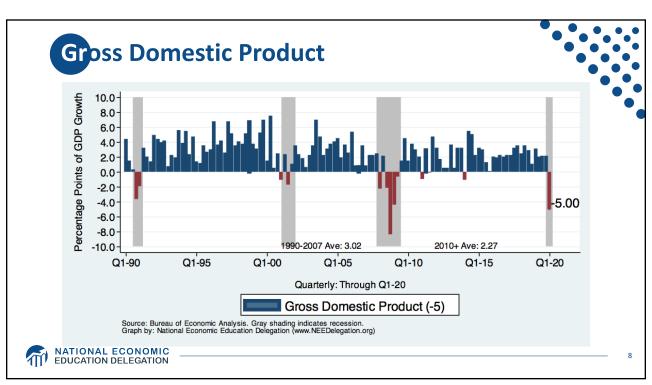
#### • A natural disaster – with important twists:

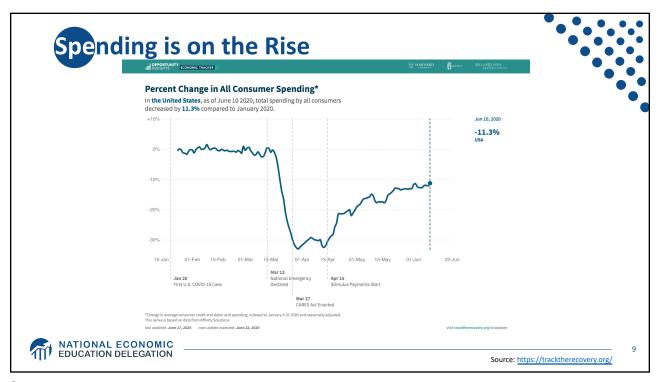
- Global
- Duration is unpredictable
- Economic toll is enormous and potentially durable

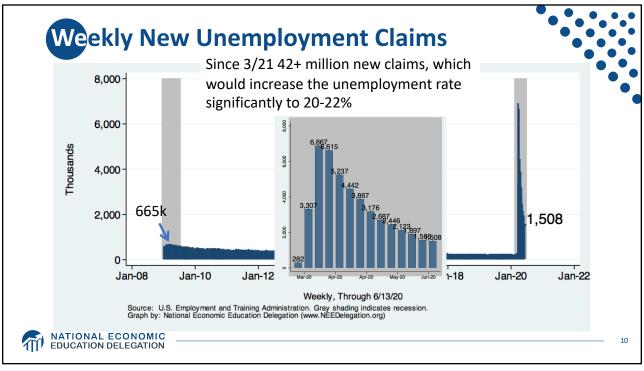
#### • A health crisis that spilled over onto the economy.

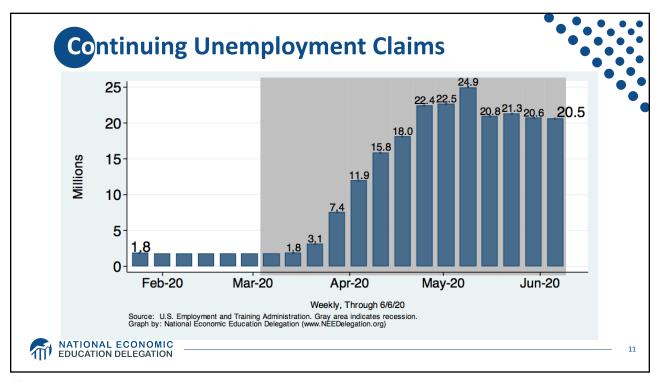
- A perfect storm of economic difficulty
  - Supply side
  - o Demand side
  - Financial
- Without a culprit

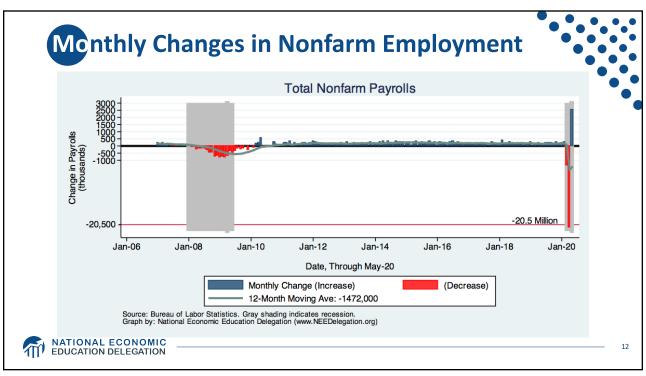


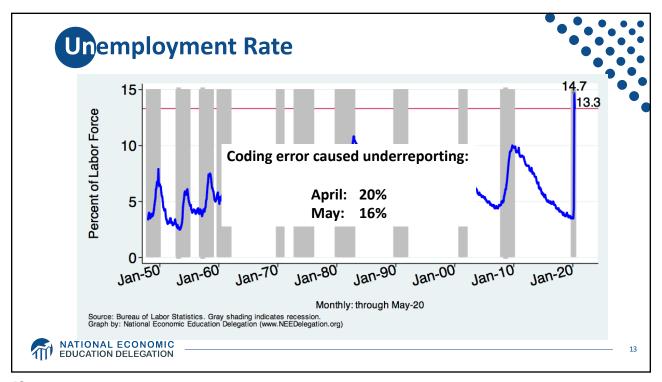


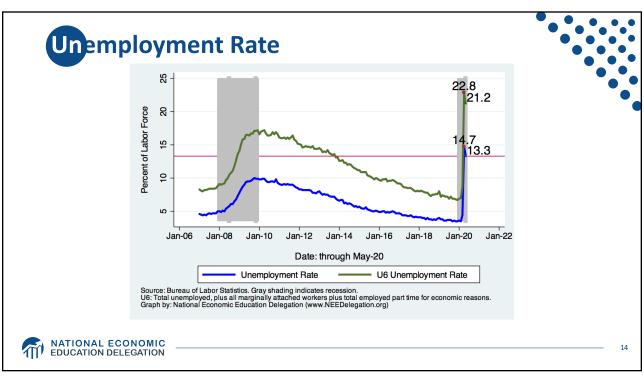


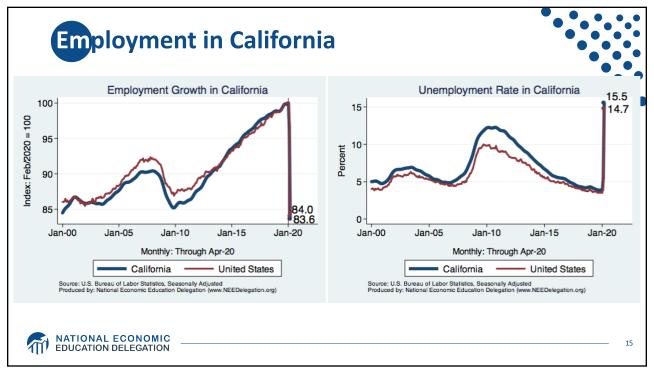














### **Process for Dealing with a Natural Disaster**

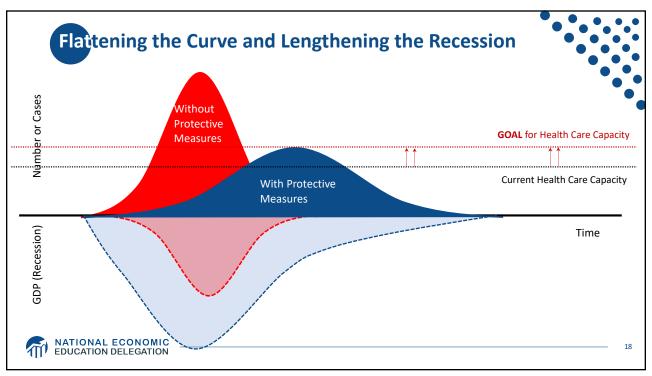
- Mitigation of effects
  - Social Policy: SIP/Social Distancing
- Tend to the vulnerable
  - Fiscal Policy
- Shore up structures
  - Fiscal and Monetary
- Rebuild
  - Stimulus

There are corrolaries in this crisis.



17

17



### **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

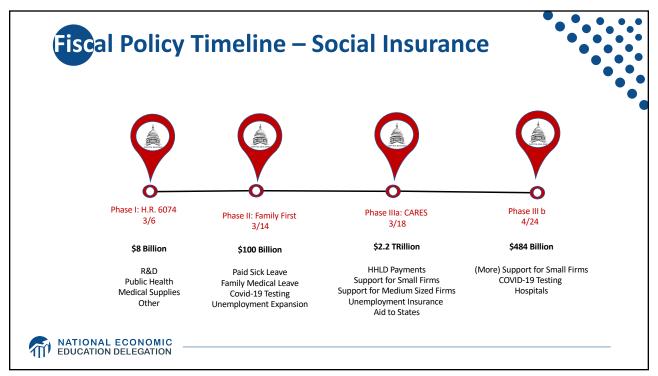
#### COSTS of "Shelter in Place" or "Lockdown"

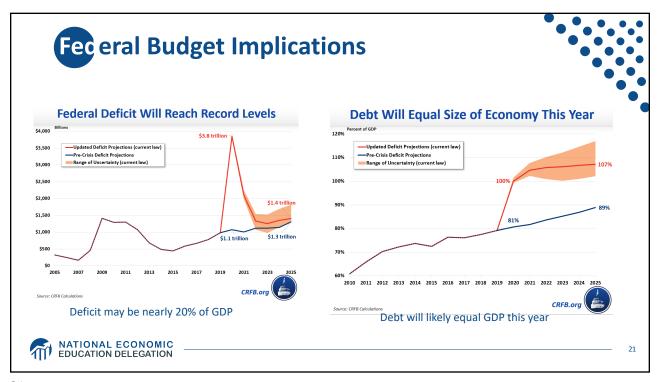
- There are about 70+ workdays in a quarter (plus March).
- The cost of a "lockdown" is roughly \$1.3 Trillion

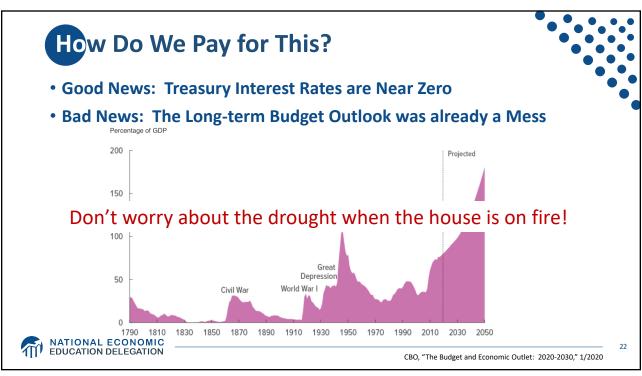
Benefit: \$5.2 trillion > Cost: \$1.3 trillion



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







### **Monetary Policy – Federal Reserve**



#### Two primary objectives

- Stabilize the economy
- Maintain liquidity of the system

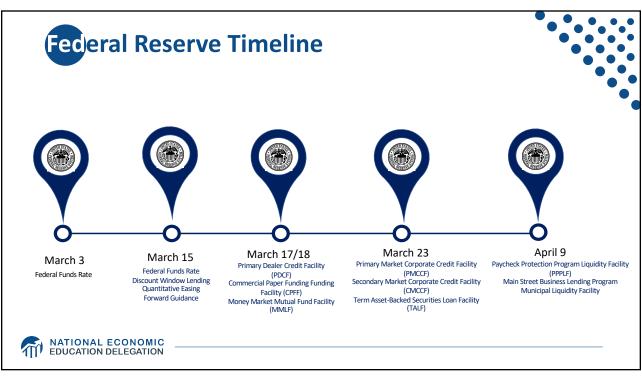
#### Actions in three forms:

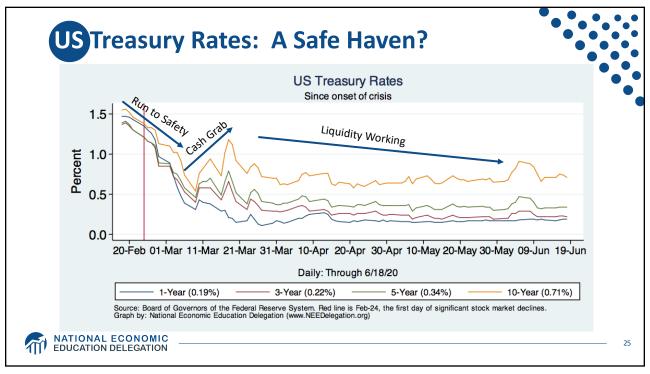
- Traditional interest rate stimulus
- Inject cash into the system
- Shore up existing debt and structures

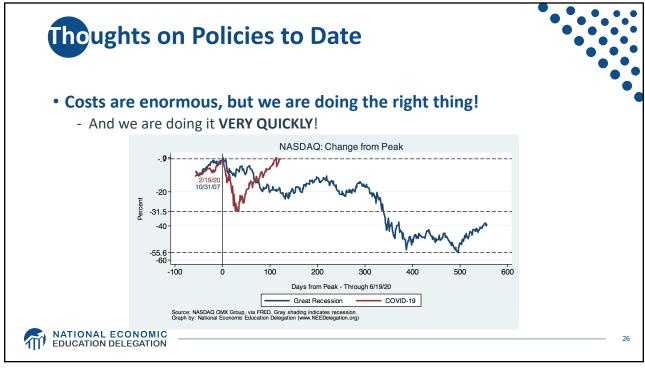


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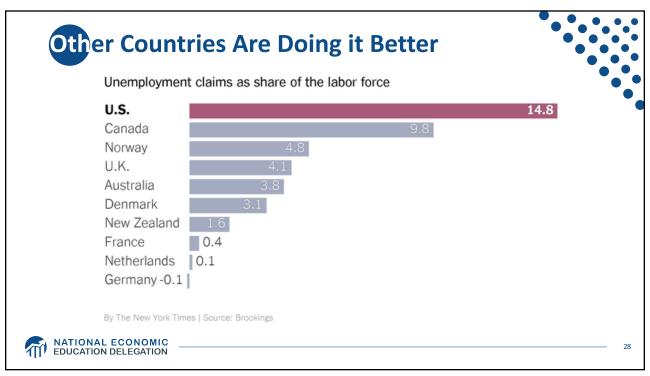
## **Thoughts on Policies to Date**

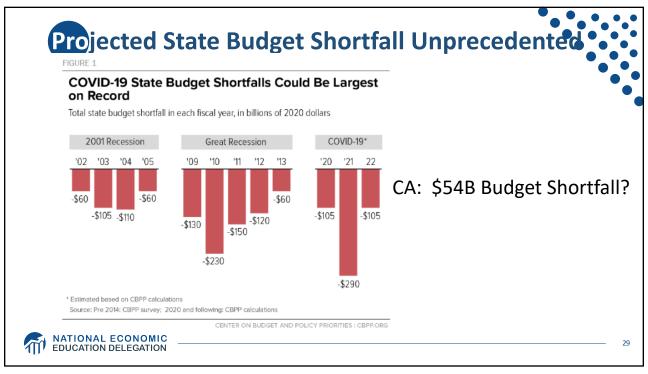
- Costs are enormous, but we are doing the right thing!
  - And we are doing it VERY QUICKLY!
- Monetary policy: Heroic! A+
- Fiscal policy grade: Emergency Pass
  - Direct cash payments
    - o Are they really getting into the hands of those most in need?
      - Corporate or otherwise?
  - Right strategy to maintain employee-employer ties?
  - What about states and local governments?

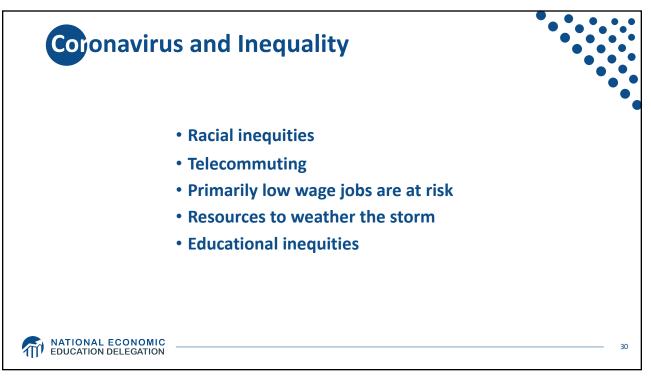


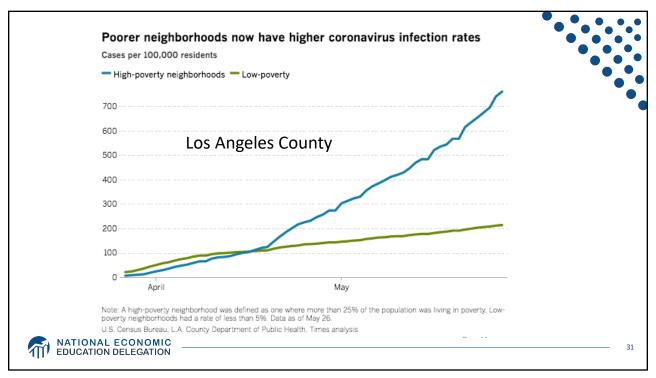
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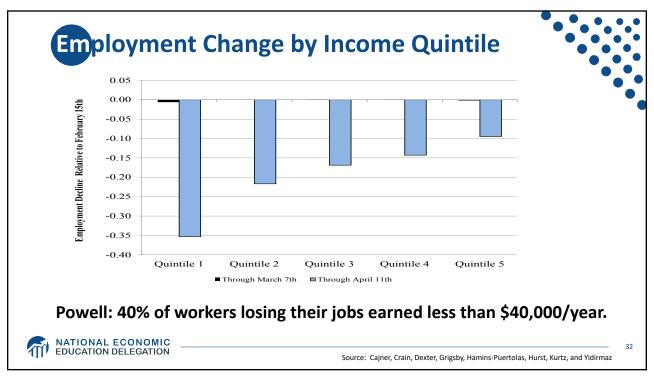
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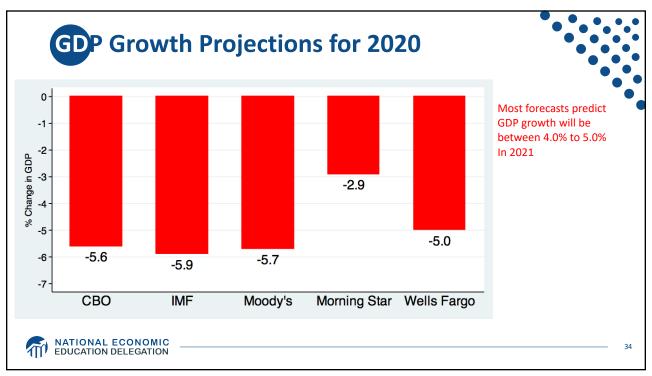


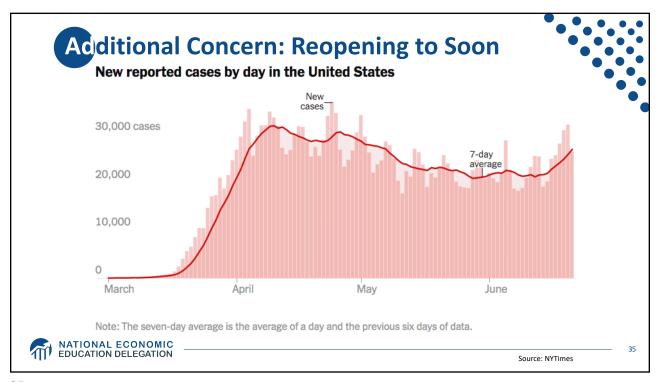


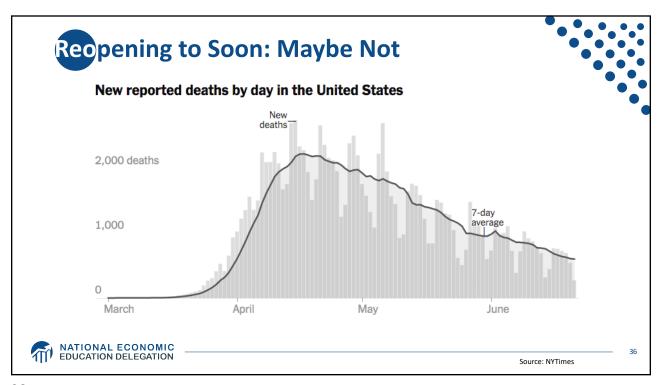
- Depends on ties between employers and employees.
- Further government policy
  - Aid to state and local governments.
  - More aid to the vulnerable.
  - Ultimately stimulus but when?
- Structural changes to the economy?
  - More telecommuting & telehealth.
  - More rapid adoption of technology.
  - The way we buy things.
- A potentially dangerous reopening.
  - Deaths, loss of public trust, costs to businesses.

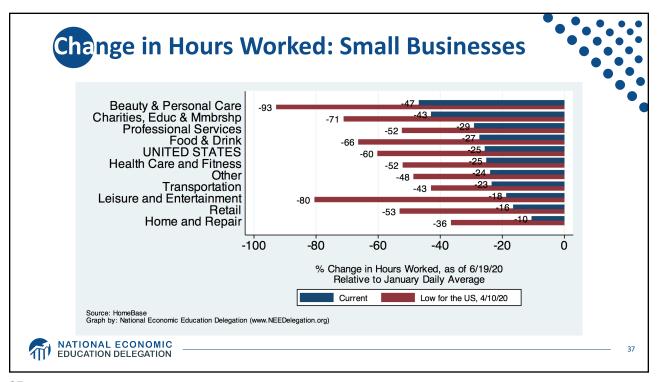


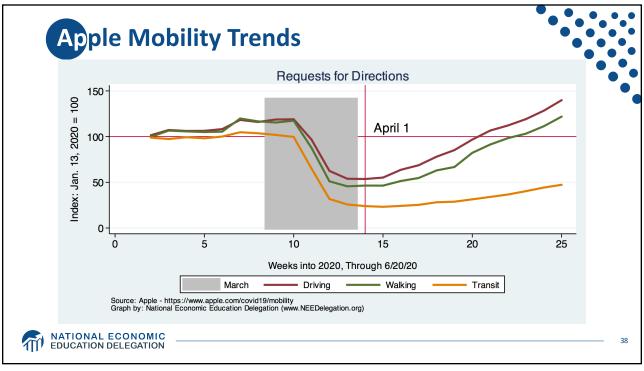
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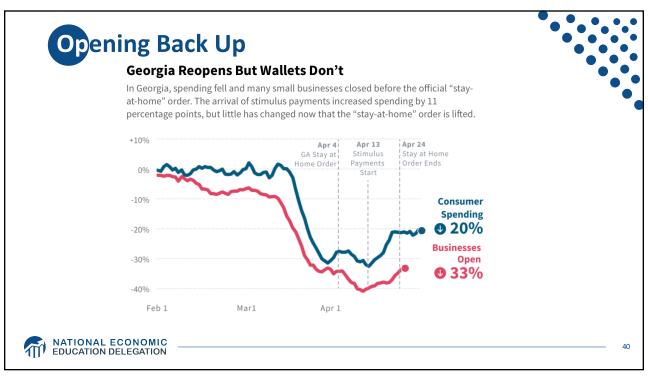
















- COVID-19 is health crisis that has macroeconomic implications.
  - With enormous built-in inequities.
- GDP will likely contract between 5.0 and 6.0 percent this year.
  - Positive growth will likely return in 2021
- Reopening too soon will derail these projections.
  - And will impose enormous costs: life and economy.
- What comes next from an economic perspective?
  - Uncharted territory.
  - Data are likely to vacillate between good and bad.



41



### **Any Questions?**



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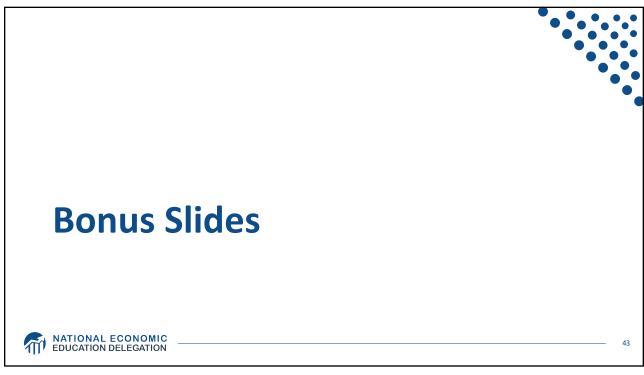
Contact NEED: info@NEEDelegation.org

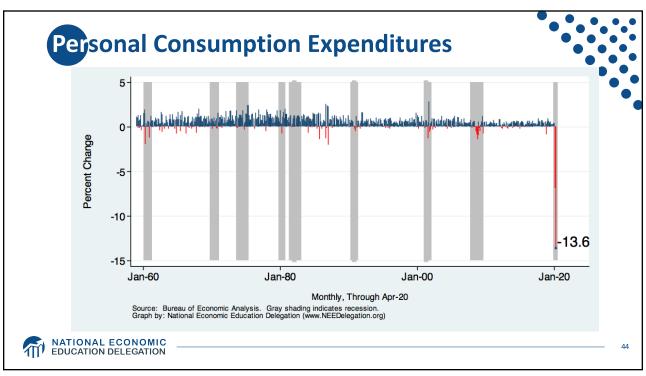
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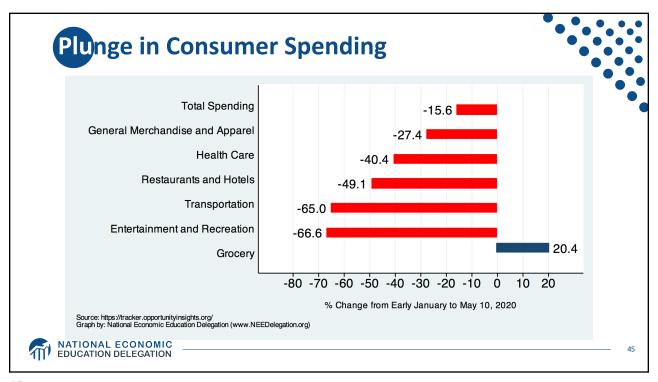
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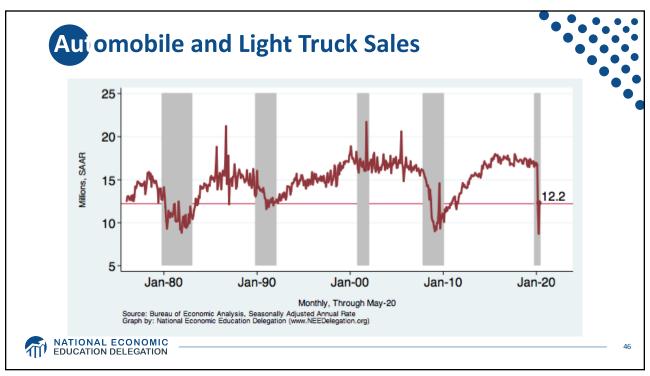


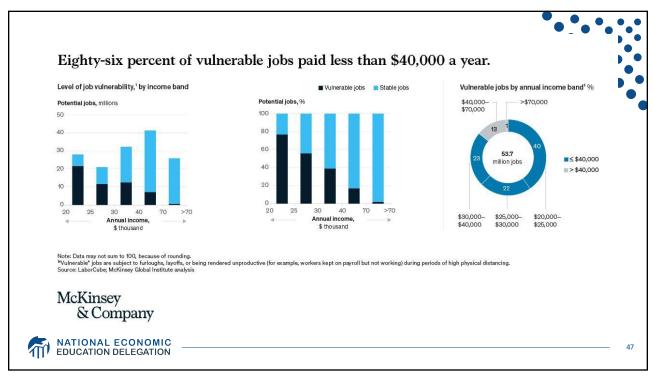
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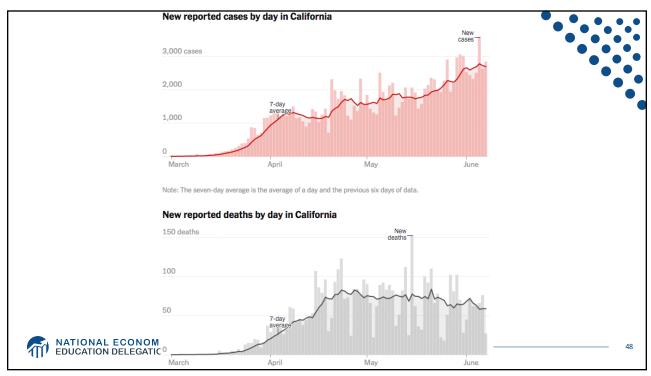


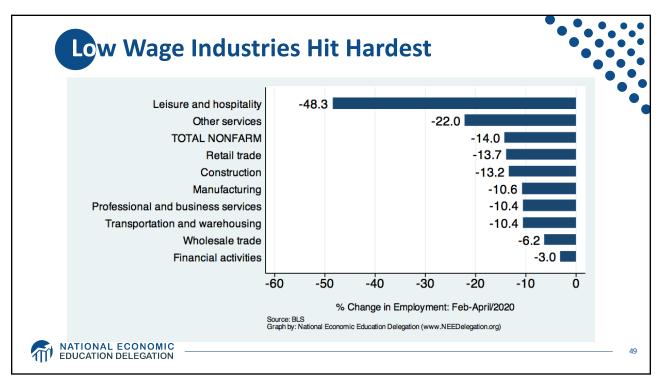


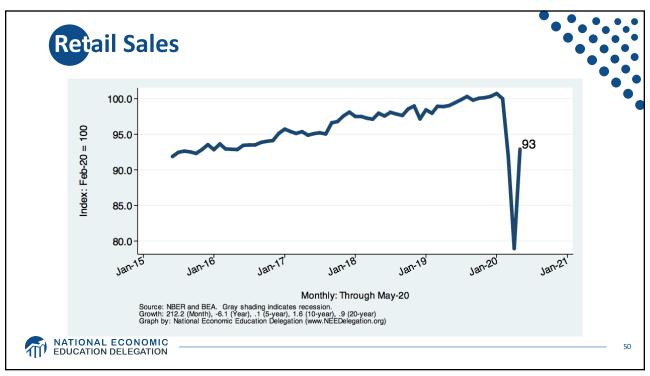


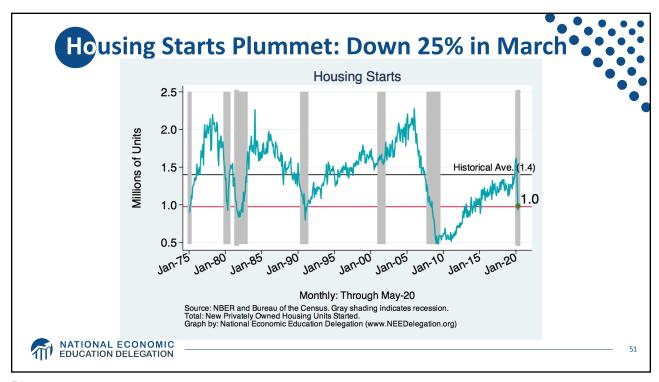


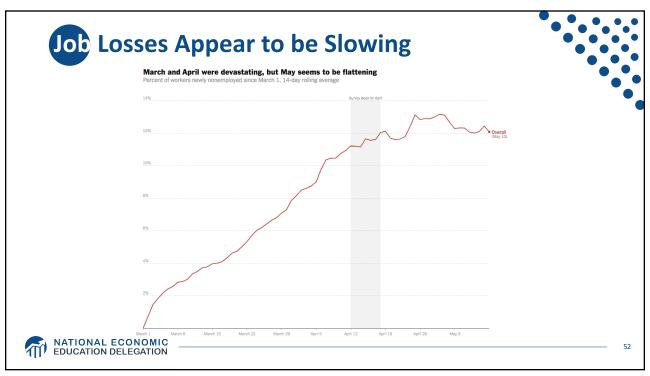


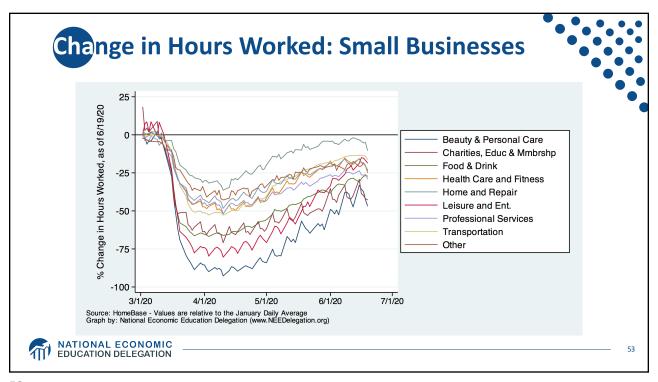


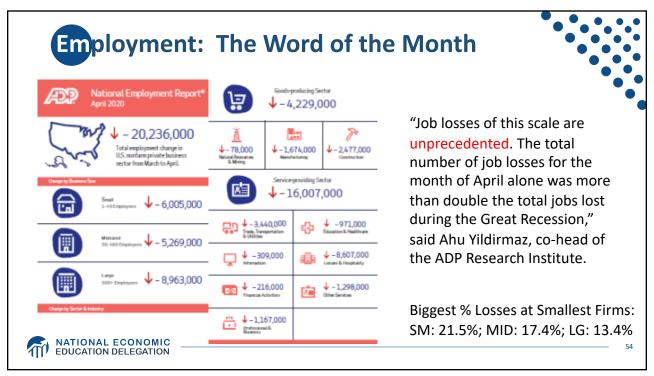












# Many Policy Alternatives

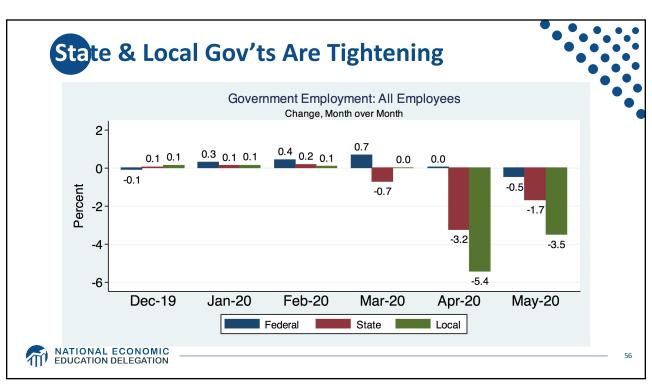


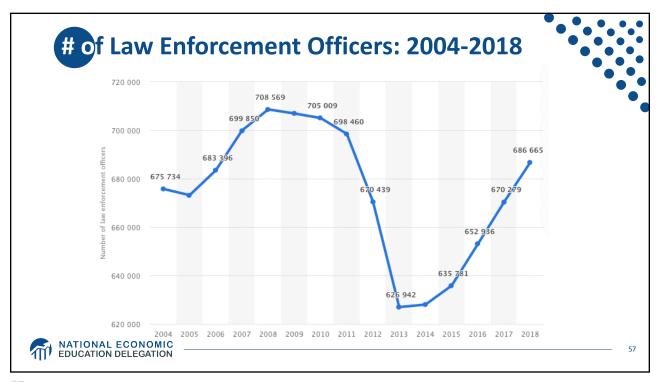
- Denmark: Pay (discounted) salaries
  - Keeps employees "on the job".
- Temporary UBI
  - \$2k/adult for 6 months \$3.6T
  - Grant if can prove need, otherwise a loan. Grants = \$240B
- Payroll Tax Cut
  - No. Designed to get people back to work. Not yet.
- Excess revenue tax
  - 10% or more above normal, taxed at high rate. (Amazon, Zoom)
- Many others...

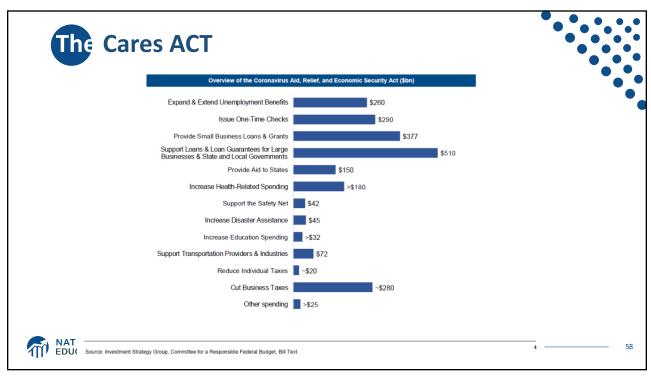


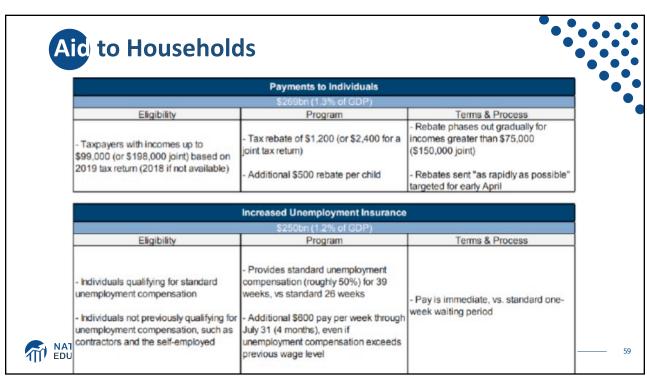
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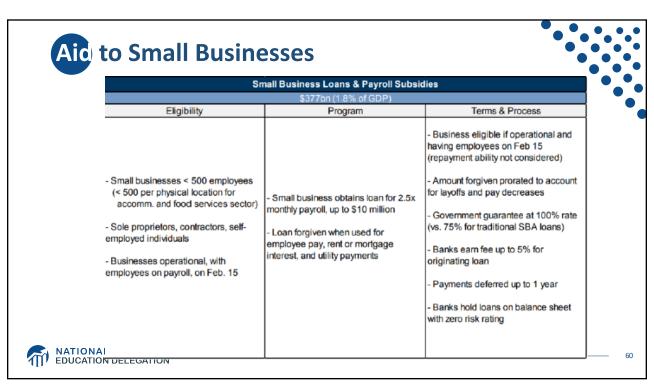
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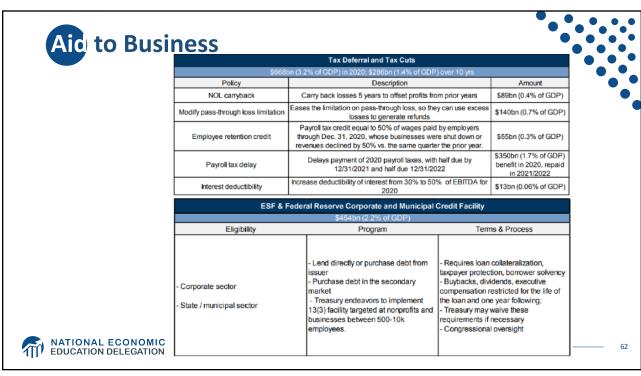






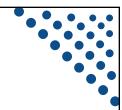
Relief for Specific Distressed Sectors					
\$46bn (0.2% of GDP)					
Eligibility	Program	Terms & Process			
- Airlines, air cargo, and national security/aerospace sectors	- Direct lending: airlines (\$25bn), air cargo (\$4bn), and national security/aerospace (\$17bn)  - Grants to pay wages, salaries and benefits: airlines (\$25bn), air cargo (\$4bn), airline contractors (\$3bn)	- Alternative financing not available - Short loan duration, < 5 years - Stock buybacks and dividend payments prohibited until 1 year after date of loan repayment - Exec comp restrictions - Must retain 90% of employment level as of March 24 - Majority of employees must be based in US			

NATIONAL ECONOMIC EDUCATION DELEGATION





### **PPP Loan Major Recipients By Industry**



Industry	Amount (Billions)	Percent of Loans
Construction	\$44.9	13.1
Professional, Technical and Scientific, Services	\$43.3	12.7
Manufacturing	\$40.9	12.0
Health Care and Social Assistance	\$39.9	11.7
Accommodation and Food Service	\$30.5	8.9
Retail Trade	\$29.4	8.6
Wholesale Trade	\$19.5	5.7

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



63

# SBIA Distribution



	Distribution of PP	P Eligible Firms	
Firm Size	Percent of Firms	Percent of. Employment	PPP Loan Size (est)
under 5	61.9%	9.8%	\$16,985
5 to 9	16.9%	11.0%	\$57,239
10 to 19	10.6%	14.0%	\$121,470
20 to 99	9.1%	35.3%	\$387,137
100 to 499	1.5%	29.9%	\$2,248,253

But Is It Enough? Loans: are for 8 weeks







Federal Spending & Aid to States						
\$490bn (2.3% of GDP)						
Expenditure	Description	Amount (\$bn)	% of GDP			
Aid to States	To offset declining revenues; Allocated by population with minimum \$1.25bn	\$150bn	0.7			
Hospitals & medical	Reimbursement to providers and other health expenses	\$130bn	0.6			
FEMA	For disaster relief fund to aid states and localities and other operations	\$45bn	0.2			
Transportation	Grants to transportation systems and airports	\$35bn	0.2			



65

#### Federal Reserve: Standard Operations



- 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.



66

### 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
    - o 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).



67

67

#### 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



68

### Financial Insecurity Before Coronavirus

- . V
- 40% of Americans don't have the cash to pay for a \$400 emergency expense
- 25% have no retirement or pension savings
- Less than 60% can answer at least three basic financial literacy questions correctly.
- 1 in 5 of adults knows someone impacted by the opioid crisis.
- About 25% of borrowers who attended a for-profit college are behind on student loan payments compared with about 10% who attended a public or private college



Source: The Federal Reserve, Survey of Household Economics and Decisionmaking,

69

69

