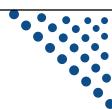


### **U.S. Economic Update**



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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 are intended to reflect the consensus of the economics profession.



### Who Are We?

### Honorary Board: 44 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

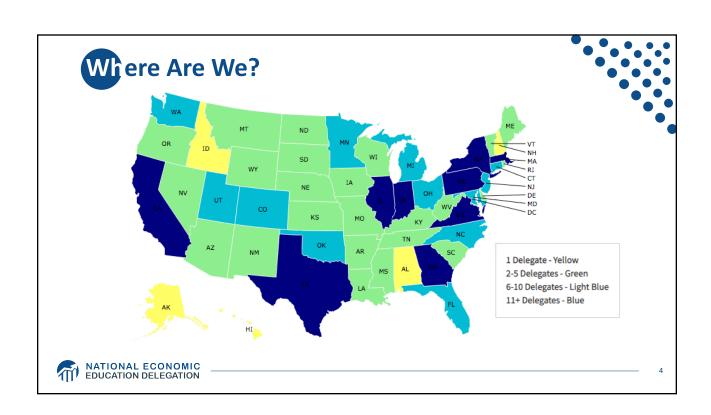
### • Delegates: 365 members

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

### • Global Partners: 42 Ph.D. Economists

- Aid in slide deck development





# **Credits and Disclaimer**



- This slide deck was authored by:
  - Jon Haveman, Executive Director of NEED
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- This slide deck was reviewed by:
  - Jeffrey Frankel, Harvard University
  - Scott Baier, Clemson University
  - Rob Eyler, Sonoma State University
- 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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# Outline – U.S. Economic Outlook



- Behavior of GDP
- Labor Market
- Monetary Policy/Interest Rates
- Other Indicators
- Summary



### **Behavior of GDP**

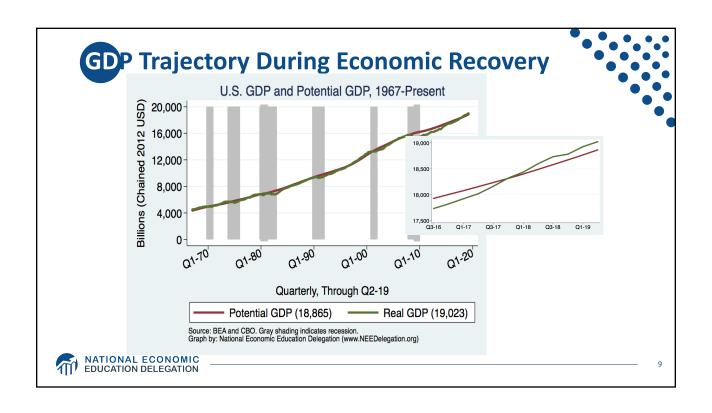


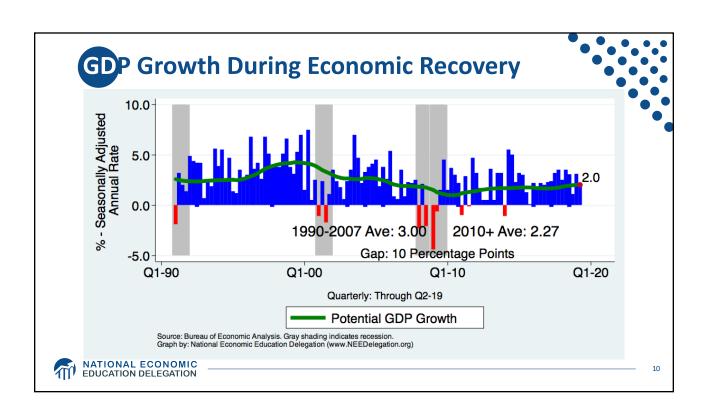
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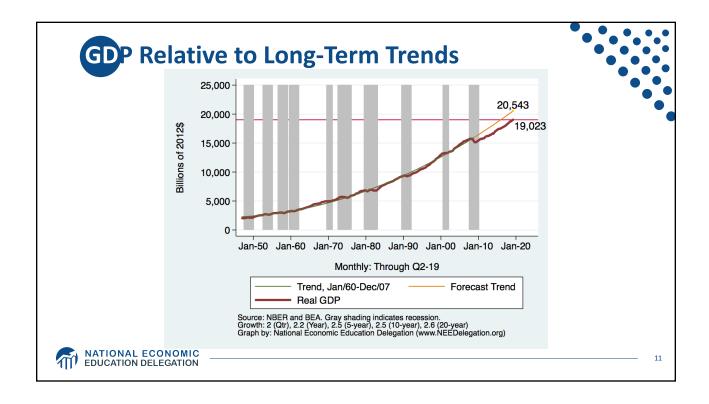
# **GDP** During the Recovery

- nomists
- Real GDP is a standard measure of production used by economists to assess the health and well-being of an economy
- Potential GDP is the level of production in an economy operating at full employment
- We use potential GDP to get a sense of what production should be in an economy











### • Expenditures drive GDP growth.

- GDP is the sum of four categories of spending:
  - Consumption
  - o Investment
  - o Government spending
  - o Net Exports: Exports Imports

#### Production also matters.

- Employment
- Productivity







- GDP = Consumption + Investment + Government + Net Exports
  - Net Exports = Exports Imports
- Give the impression that IMPORTS are bad for GDP
  - They are not.
  - They are merely subtracted from the equation because the measurement of consumption, investment, and government all include imports.
- Calculating Gross DOMESTIC Production must exclude IMPORTS
  - It is merely an accounting identity.



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### Composition of GDP – Inflation Adjusted 20.0 Government (17%) Investment (17%) Consumption (68%) Trillions of 2012 Dollars 15.0 Exports (11%) Imports (-14%) 10.0 5.0 0.0 -5.0 Quarterly: 1947 through Q2-19 Source: U.S. Bureau of Economic Analysis NATIONAL ECONOMIC EDUCATION DELEGATION

## **Composition of GDP**



- Slow growth in any of these categories will slow overall GDP growth.
- How does each component contribute to GDP growth pre- vs. postrecession?
- What explains current trends in each component?



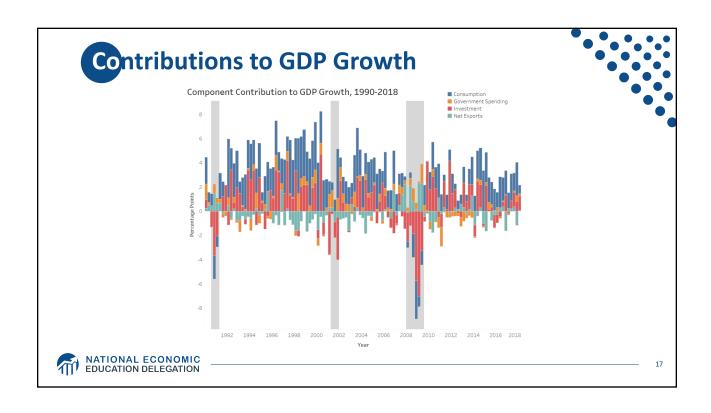
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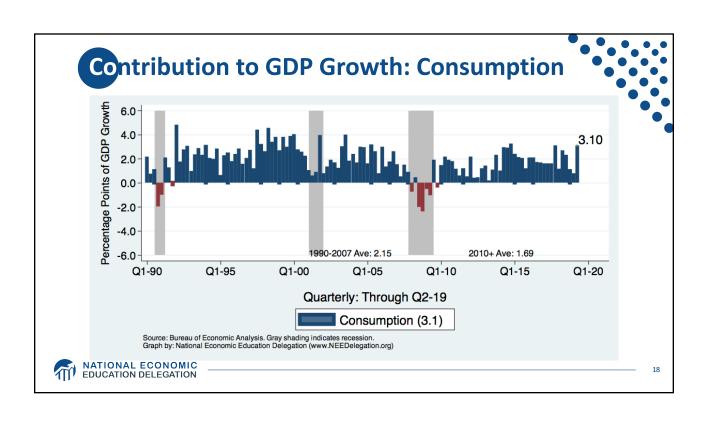
# Understanding Contributions to GDP Growth

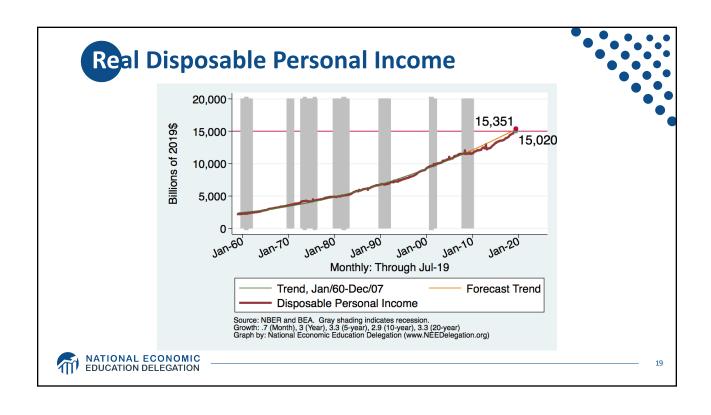


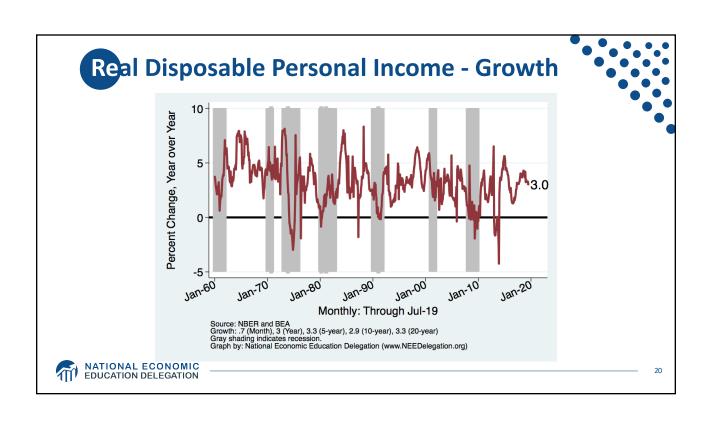
- Consumption, Investment, Government, and Net Exports
- It's a weighted average of these components
- For example: Consumption
  - If consumption accounts for 2/3 of the economy,
  - If consumption grew by 3%,
  - It would cause GDP growth to be **2 percentage points** higher than it would otherwise be

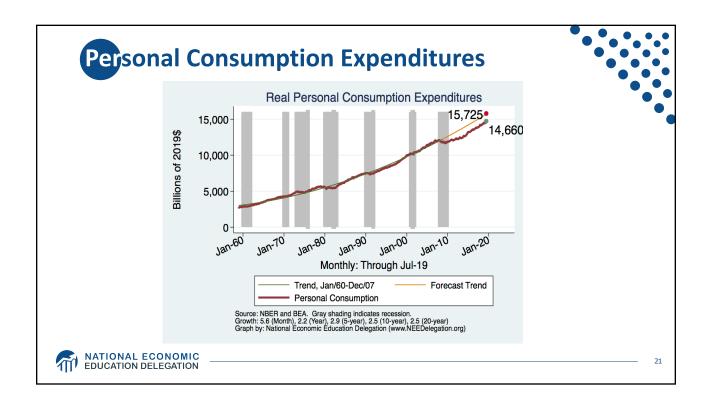












### Personal Consumption Expenditures



- Consumption has been slow to recover.
  - Pre-crisis average contribution of consumption expenditures is 2.15 percentage points.
  - Post-crisis contribution is 1.64 percentage points.
- In other words, its contribution to GDP growth is down 24%.

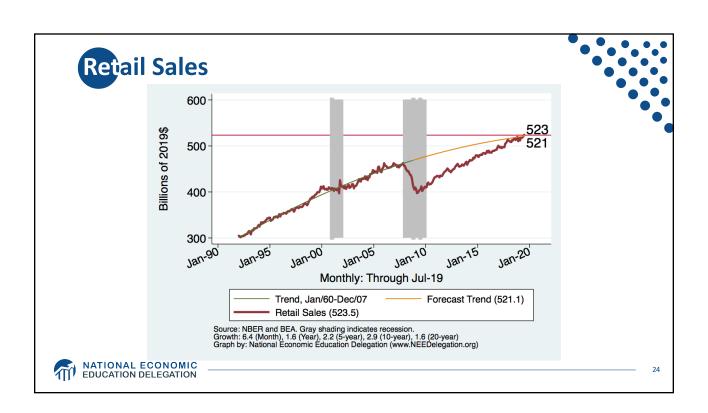


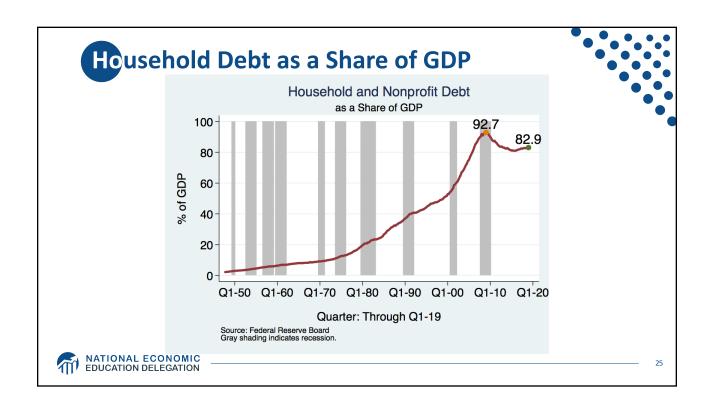


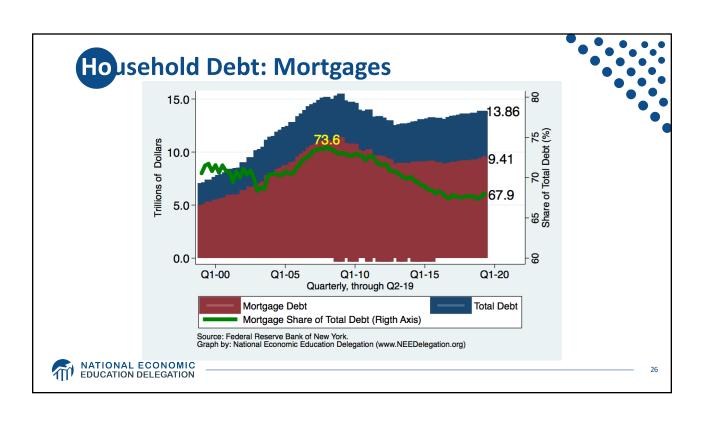


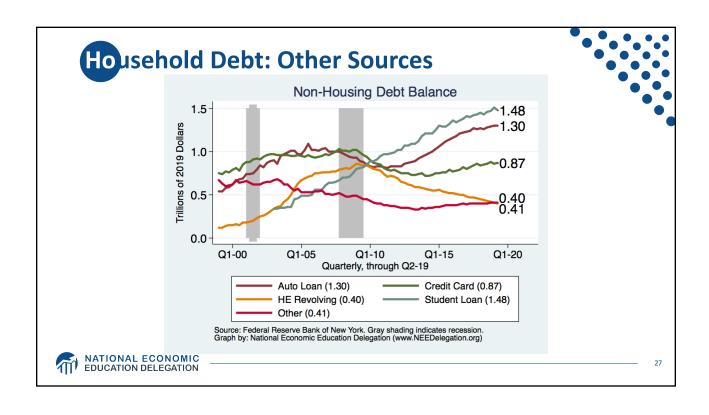
- Retail sales, household debt, and personal savings help explain changes in consumption expenditures.
- <u>Lower</u> levels of retail sales and household debt and <u>higher</u> savings should be correlated with <u>lower</u> levels of consumption expenditure.

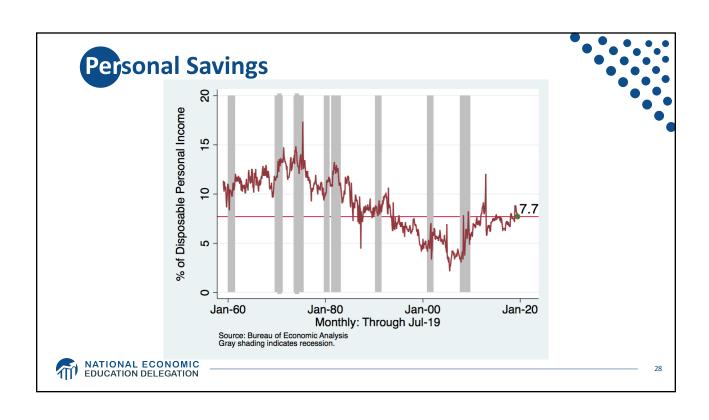












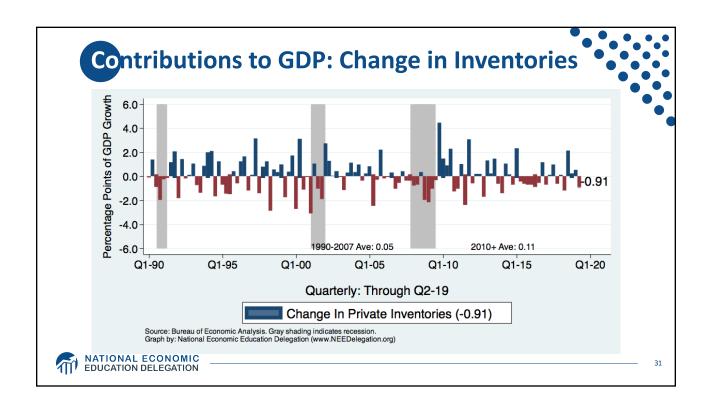
### **Investment Expenditures**

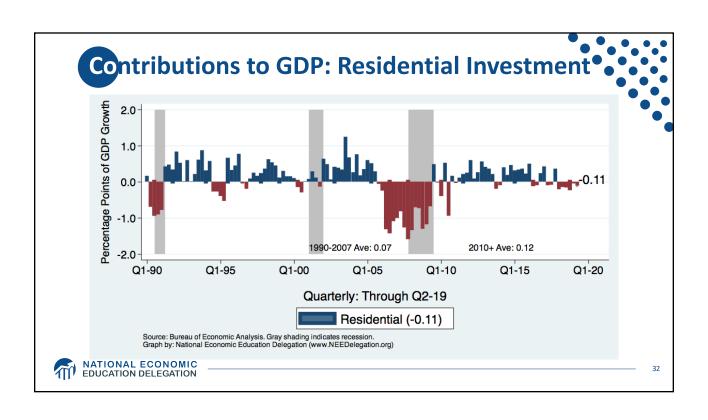
- Investment expenditures are composed of residential and nonresidential spending.
- Residential spending refers to purchases of new homes.
- Non-residential spending refers to capital purchases and new inventory accumulation.
  - Tools, machinery, new factories, commercial real estate.



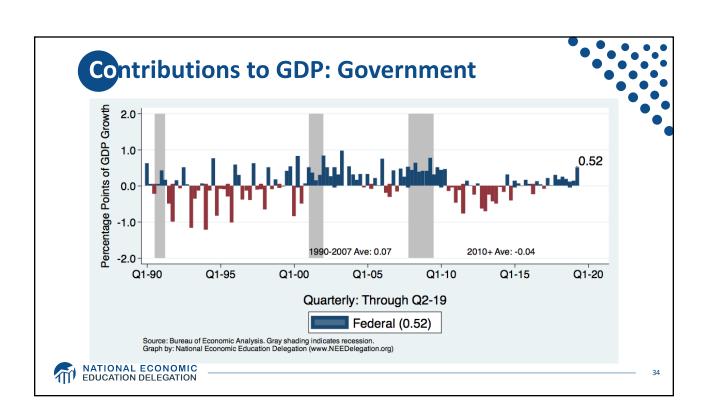
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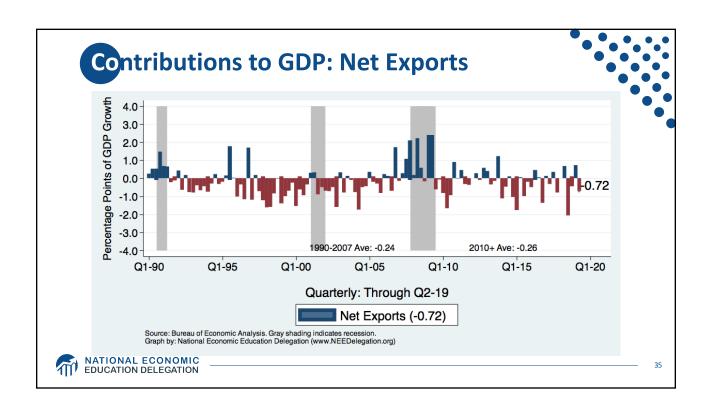
### Contributions to GDP: Private Investment Percentage Points of GDP Growth 6.0-4.0 2.0 0.0 -2.0 -4.0 1990-2007 Ave: 0.78 2010+ Ave: 0.89 -6.0 Q1-95 Q1-00 Q1-05 Q1-10 Q1-15 Q1-20 Q1-90 Quarterly: Through Q2-19 Private Inv (-1.11) Source: Bureau of Economic Analysis. Gray shading indicates recession. Graph by: National Economic Education Delegation (www.NEEDelegation.org) NATIONAL ECONOMIC EDUCATION DELEGATION

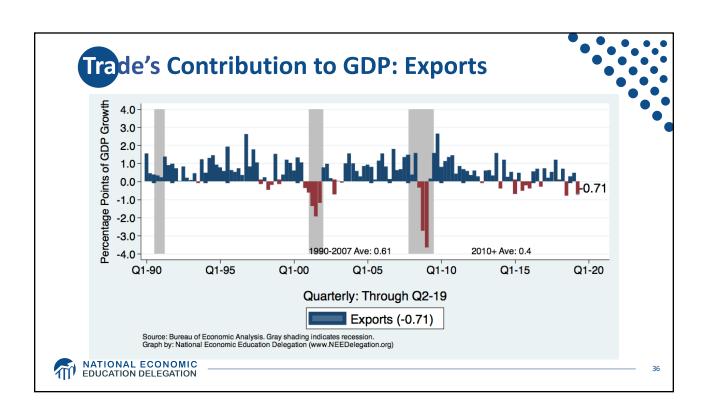


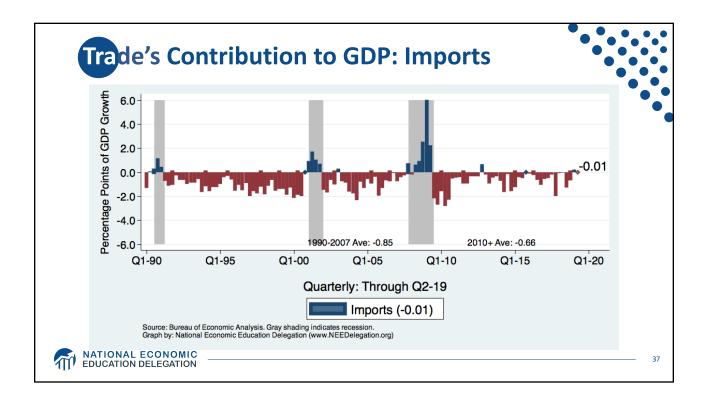




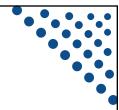






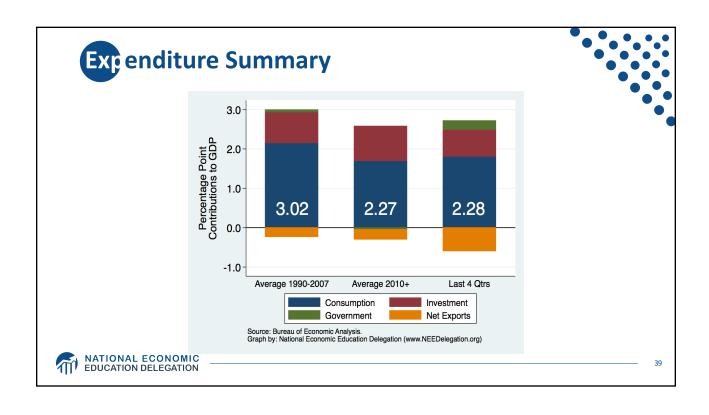




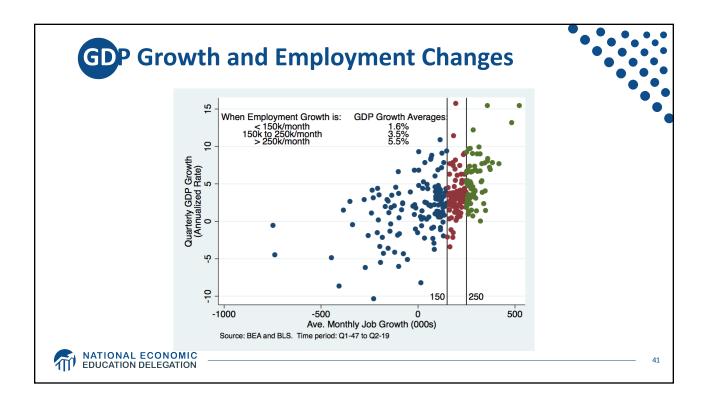


- Post-recession consumption is down:
  - Retail sales are returning to trend;
  - Household debt down, but climbing;
  - Personal savings is up.
- Investment expenditures are contributing more to GDP growth.
- Post-recession government spending is down:
  - But starting to pick up.
- Net exports are relatively unchanged.









### **Production and Employment**



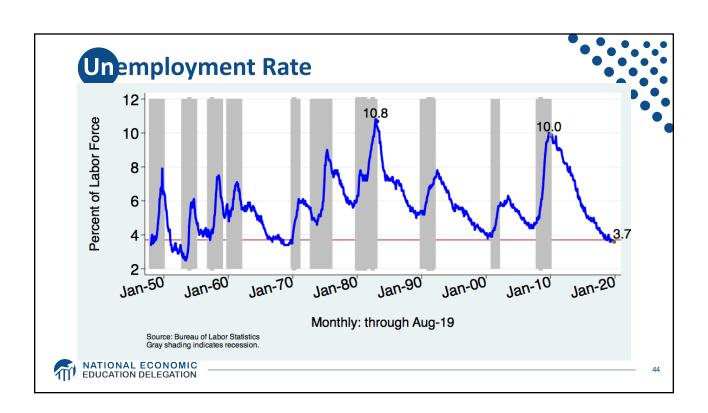
- In addition to the previously discussed components of GDP, the labor market is an important indicator of the health of the U.S. economy.
- We'll focus on employment and productivity.
  - Trends in employment and labor force participation.
  - Trend in labor productivity.



# **Labor Market Conditions**

- Unemployment rate is low, 3.7%, a level not seen since the 1960s.
- Natural rate of unemployment is estimated to be 4.5% 5.5%.
- Monthly employment gains have averaged 141,000 jobs over the last six months.
  - This measure has been declining throughout 2019.
- Recent Labor Market Concerns:
  - Low employment-to-population ratio
  - Falling labor force participation
  - Slow wage growth







### How is the Unemployment Rate Calculated?

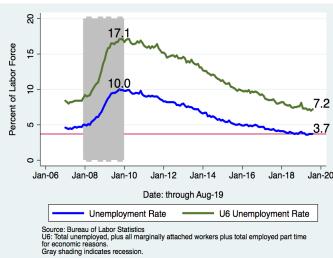


• It is not a simple thing:

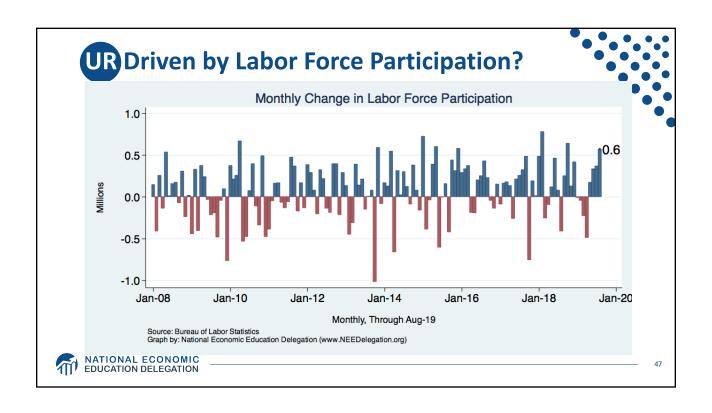
- Why is that not simple?
  - Because it can go up or down for a variety of reasons:
    - o If the labor force shrinks UR goes down
    - o If employment grows UR goes up
  - Not all employment is created equally
- Not a good indicator of the overall well being of the US economy

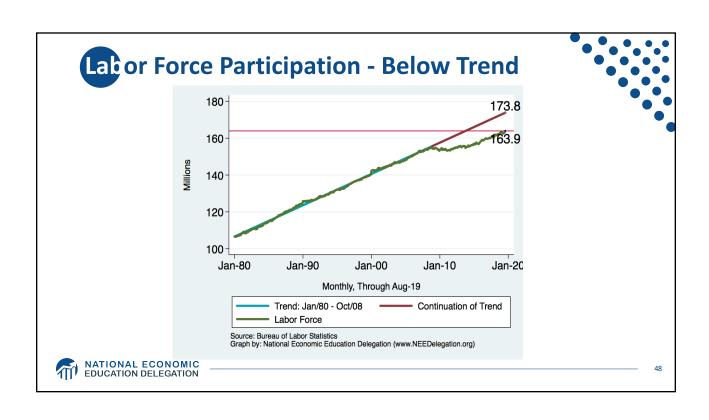


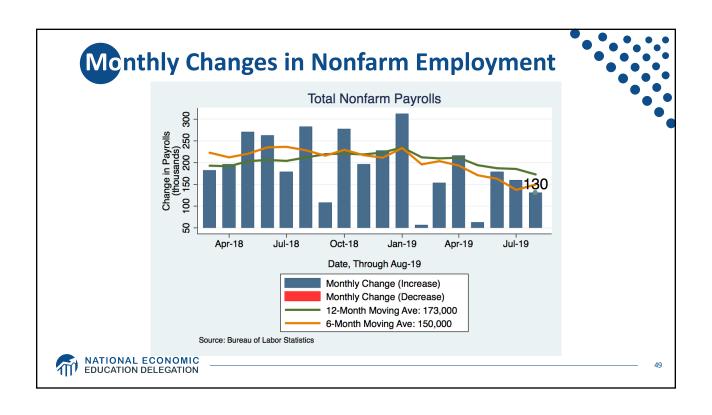


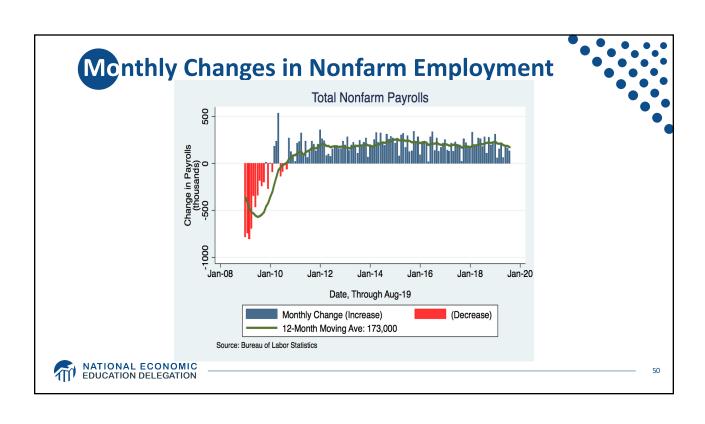


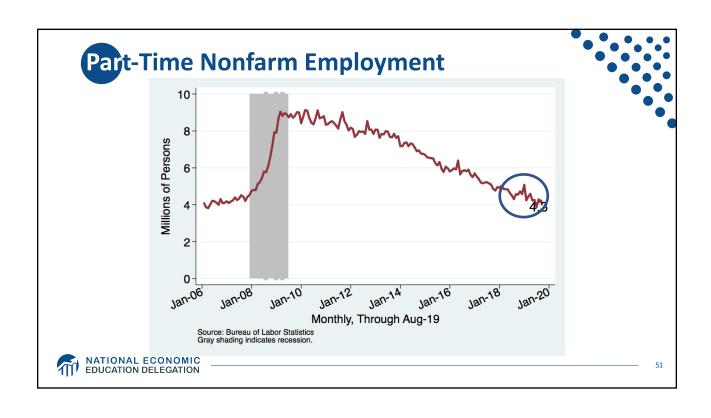
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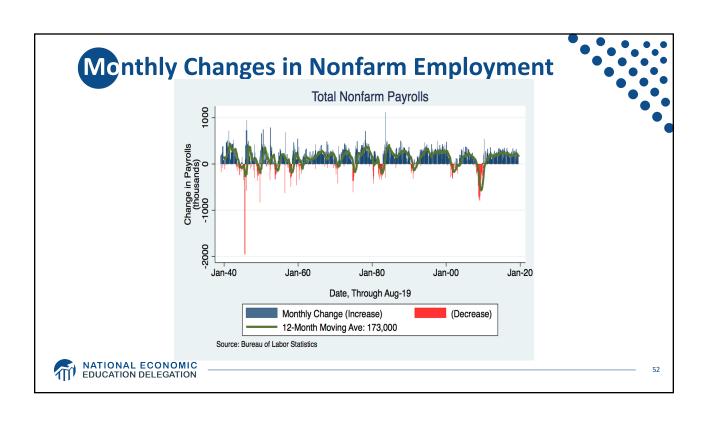


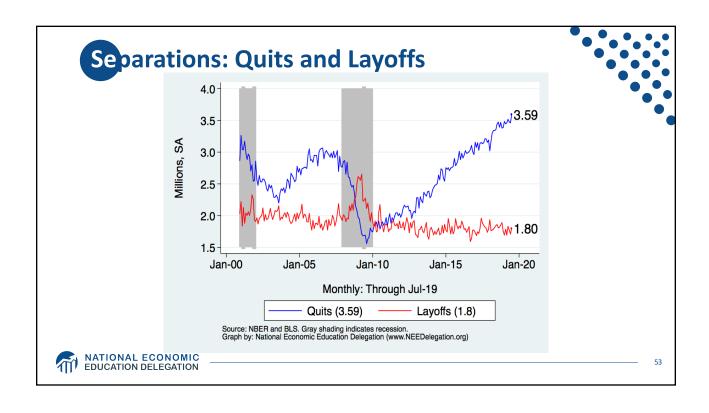


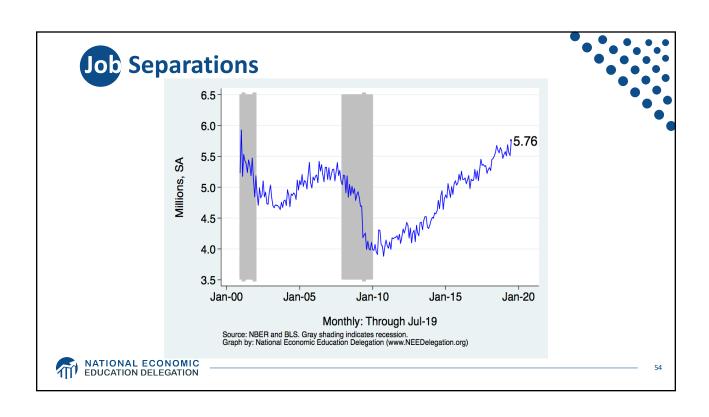


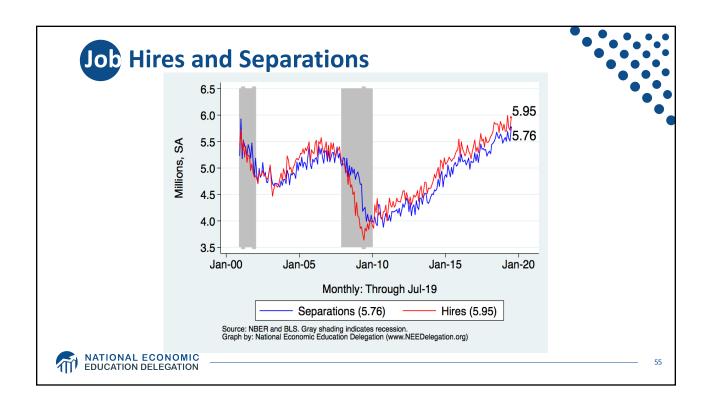


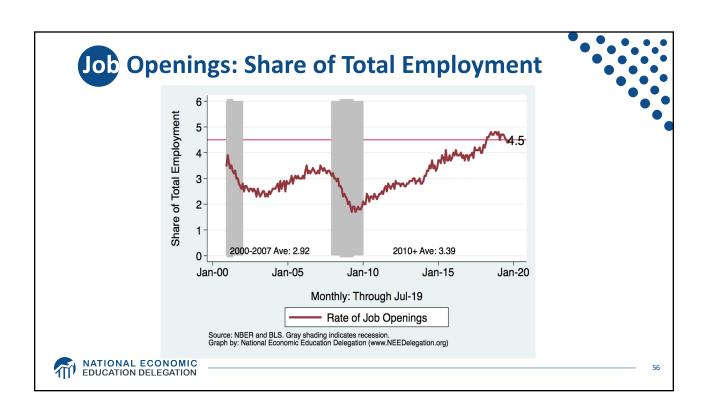


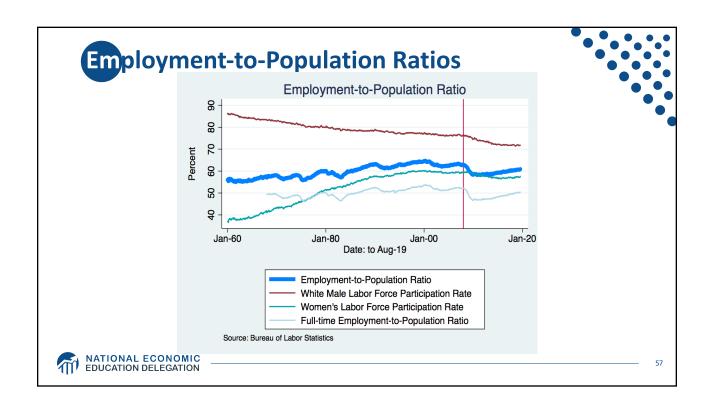


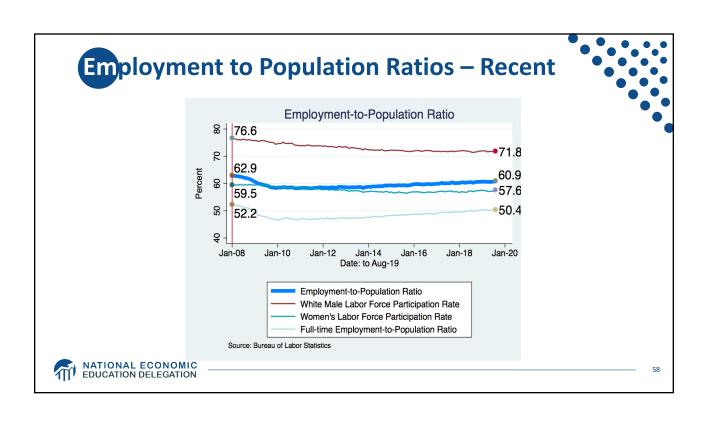


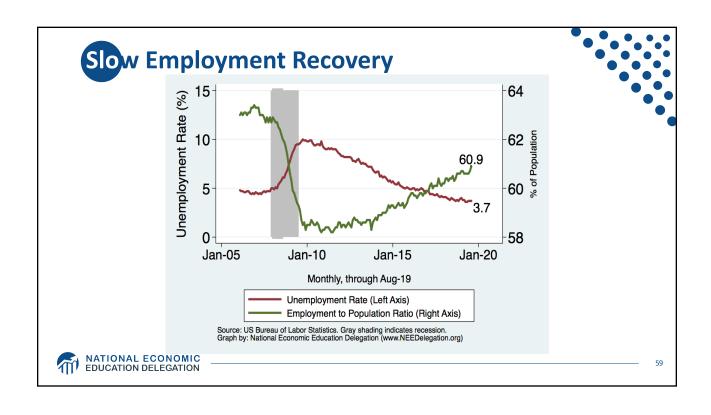


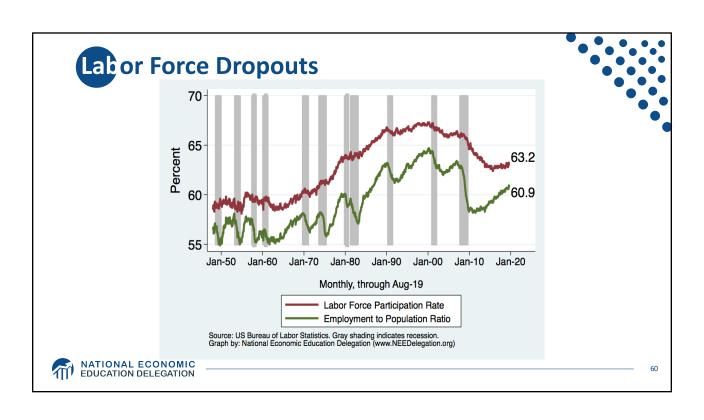


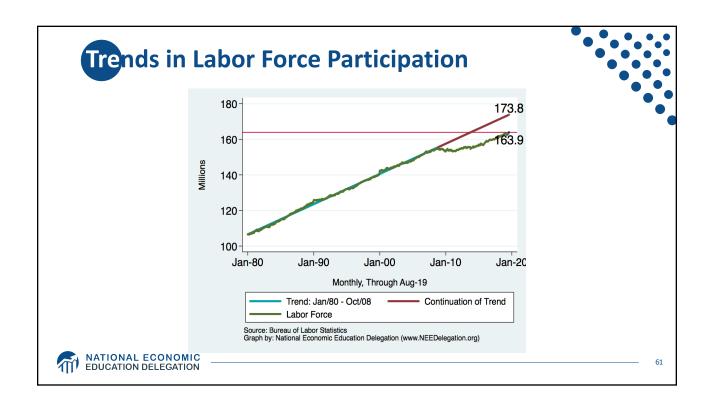


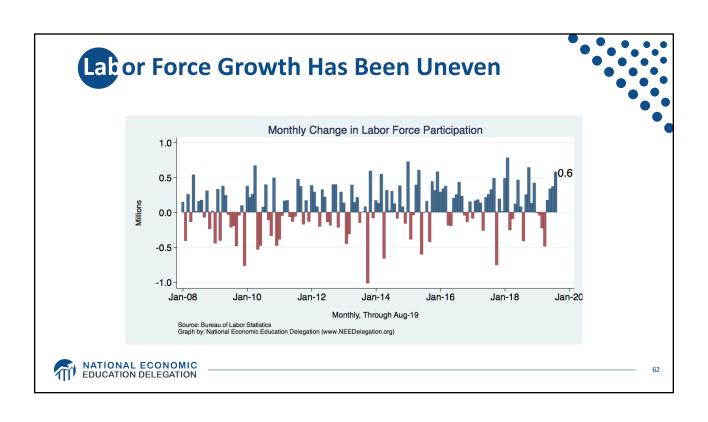


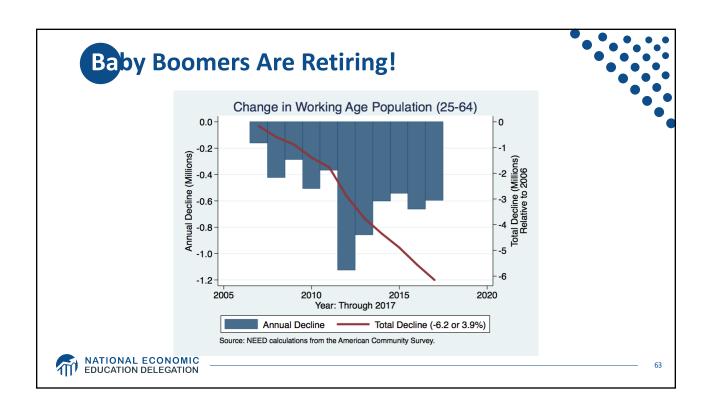


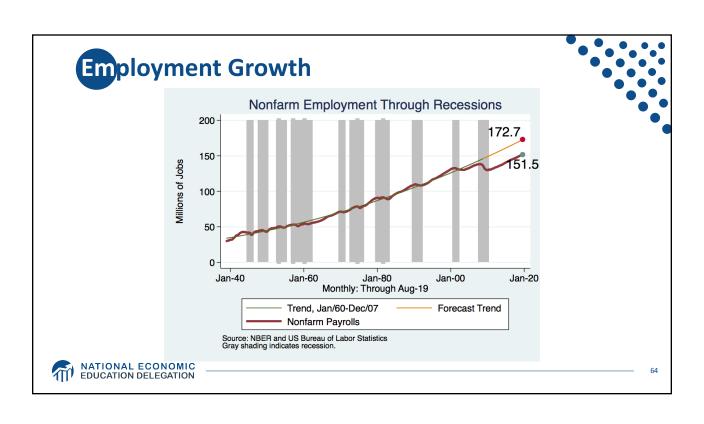


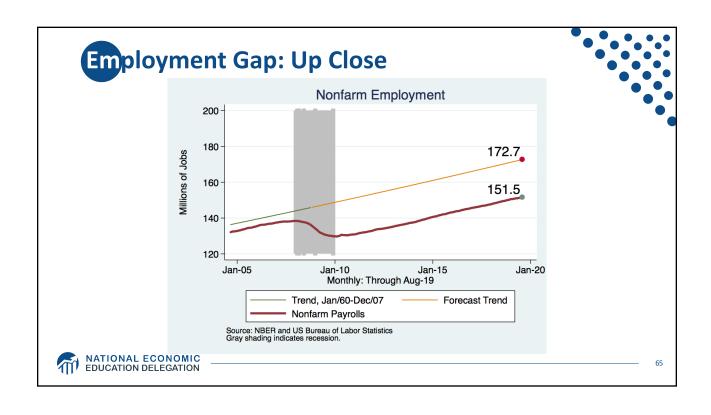


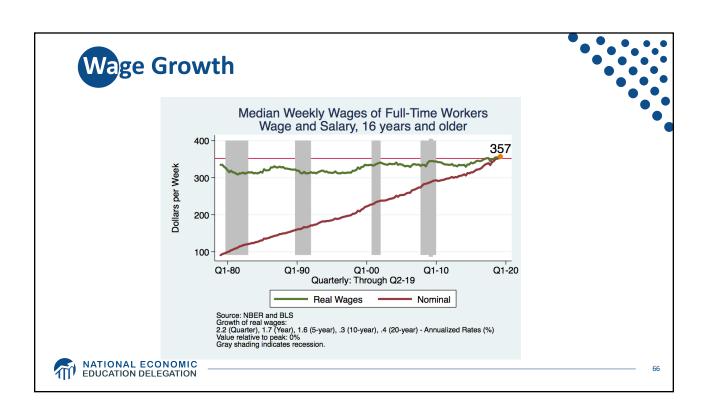


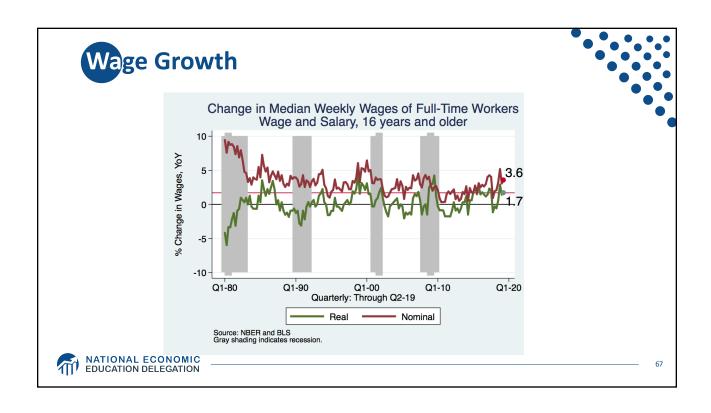


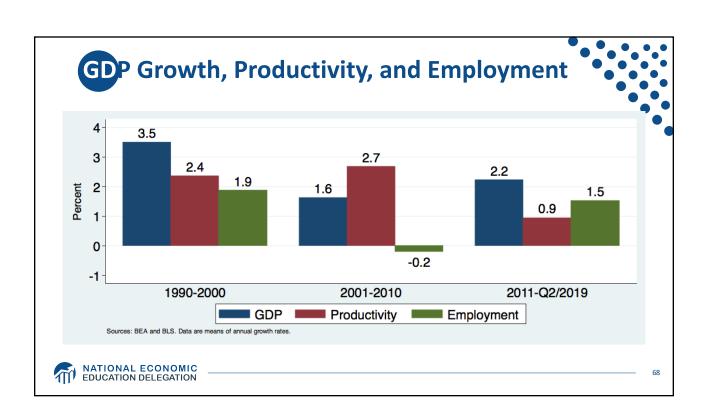


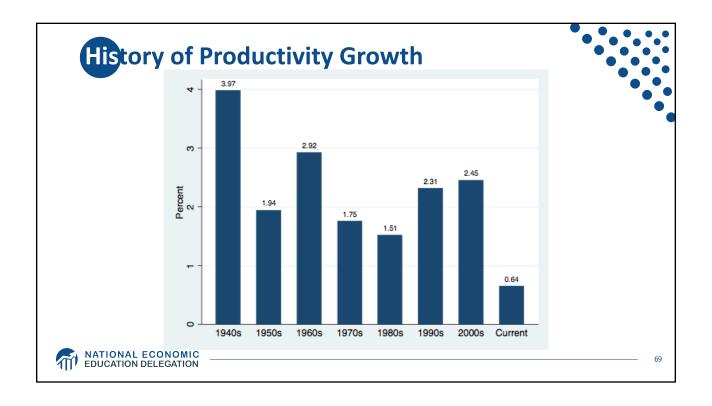












# Summary

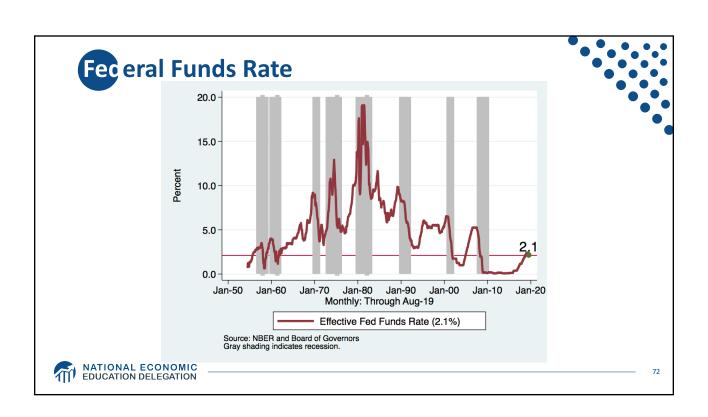
- GDP growth is primarily fueled by increases in demand for output.
- This growth is supported by growth in employment and productivity of the labor force.
- Recent years have seen relatively tepid increases in demand for output.
  - In particular, consumption and government spending have been slow relative to other periods.
- This tepid growth has lead to slow increases in employment.
  - Although labor markets have tightened, wages have not experienced rapid growth.
- Productivity growth has played little role in growing GDP.
  - Why this is so is not immediately clear.

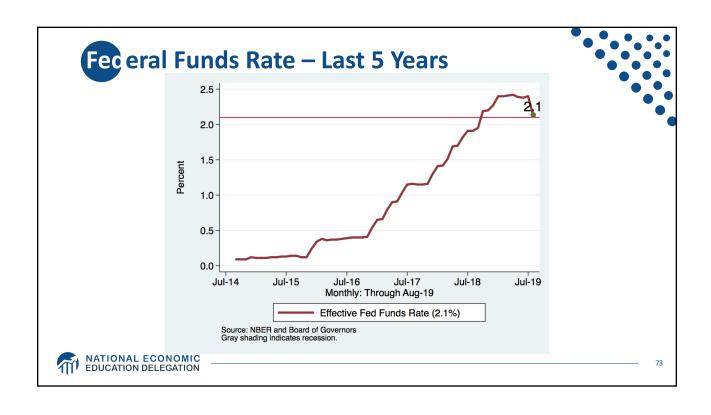


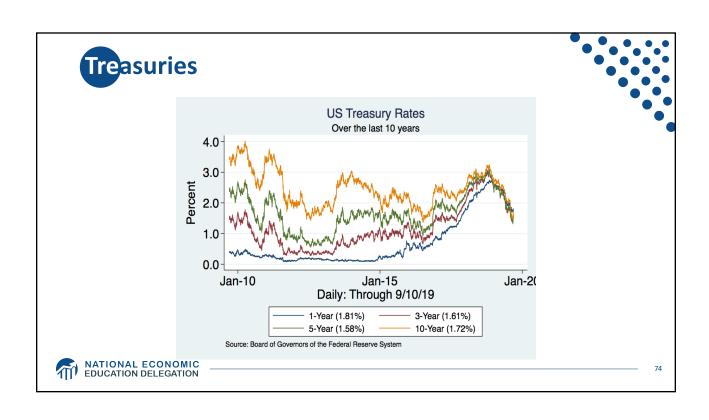


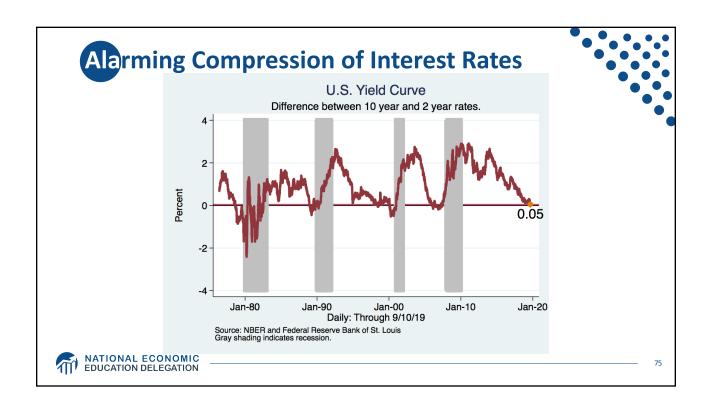
# **Monetary Policy**

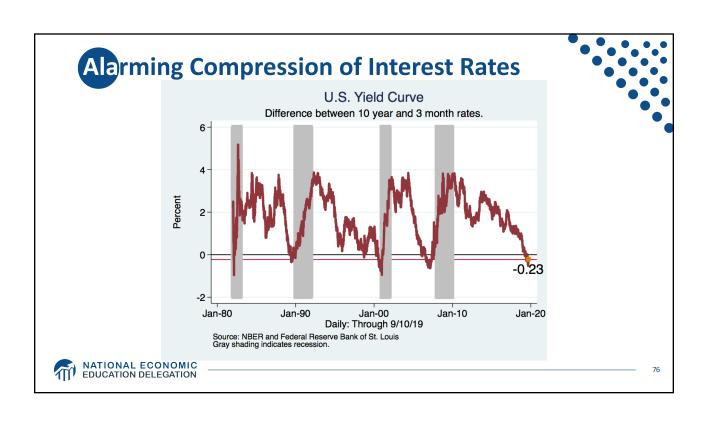


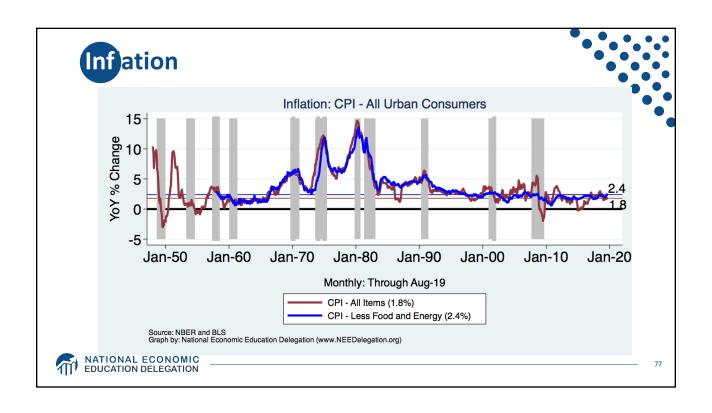


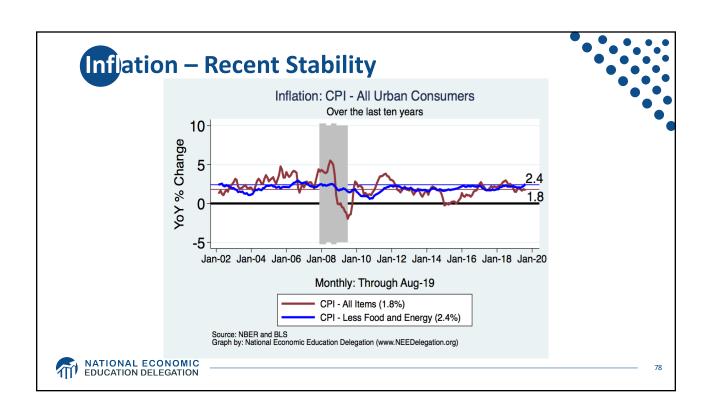


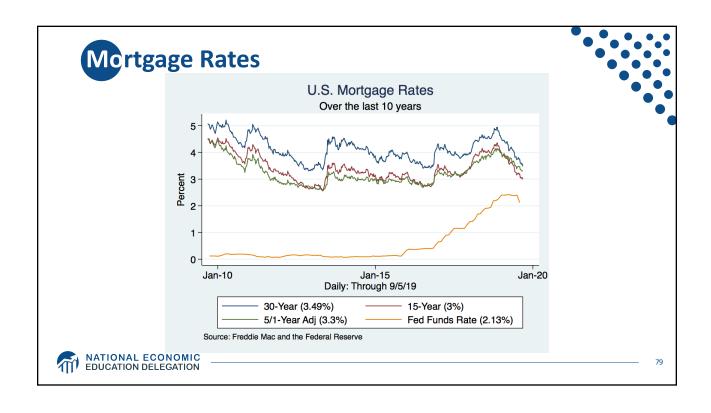


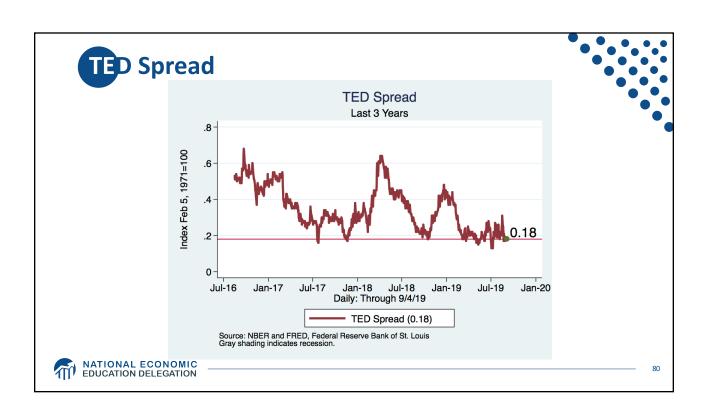


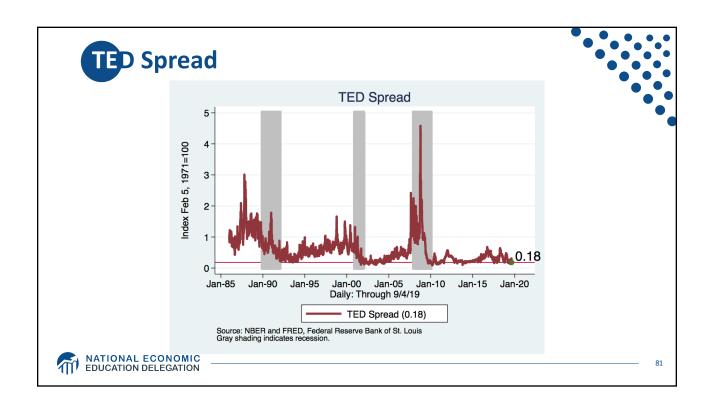




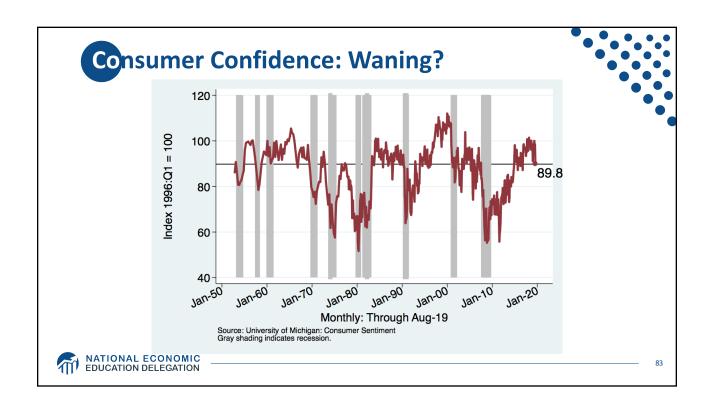


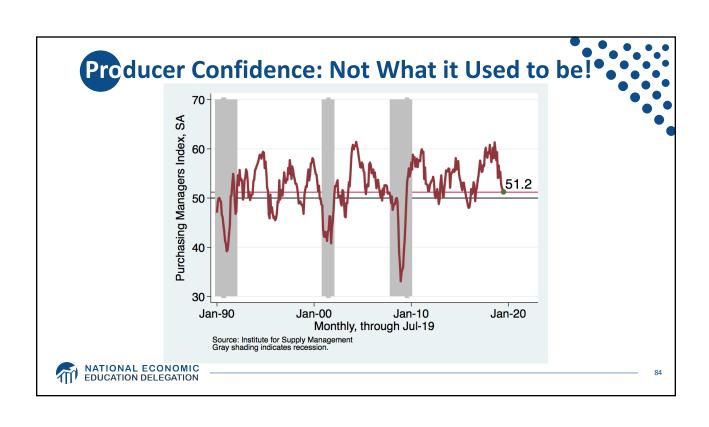


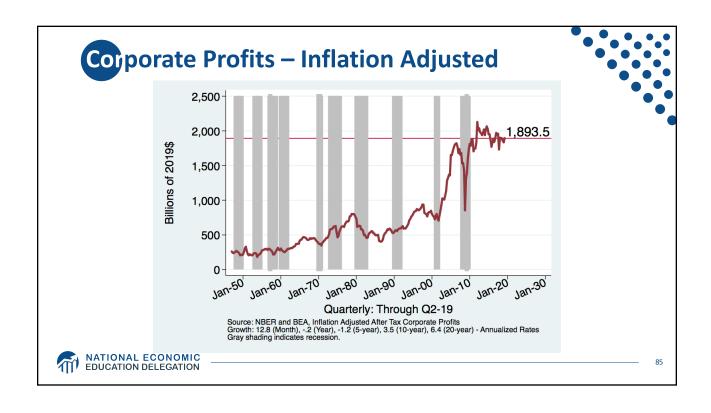


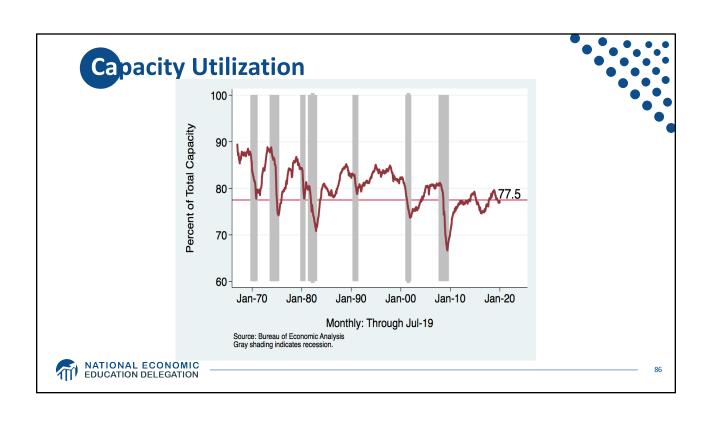


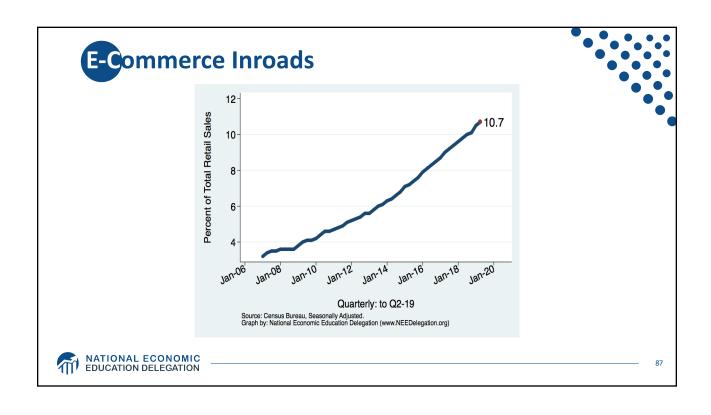


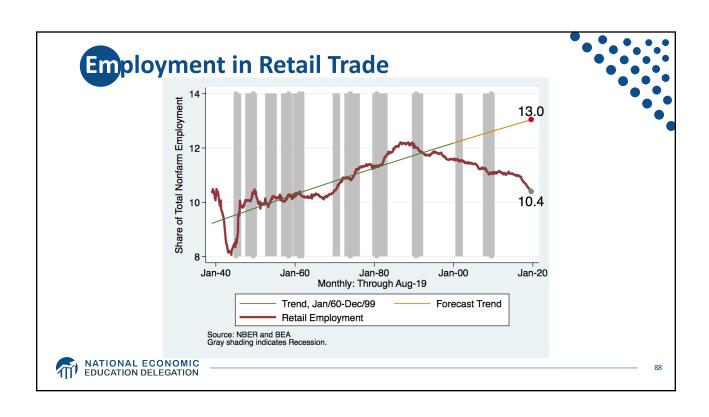




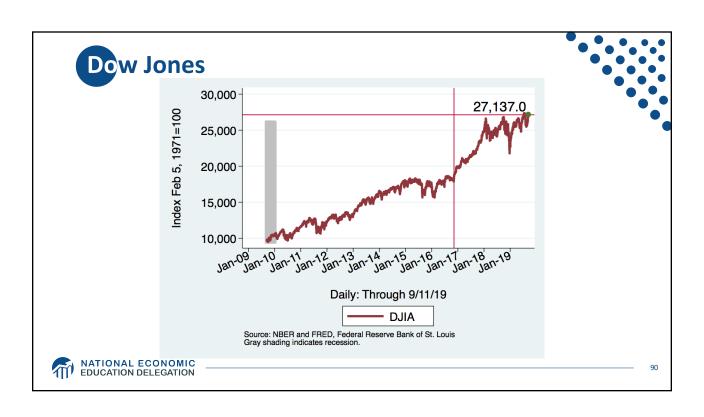


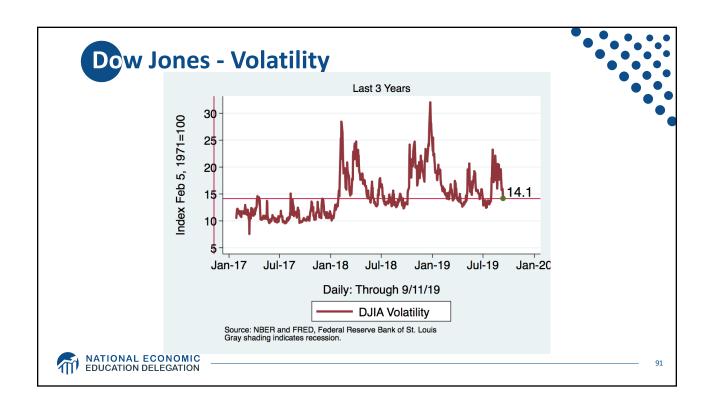


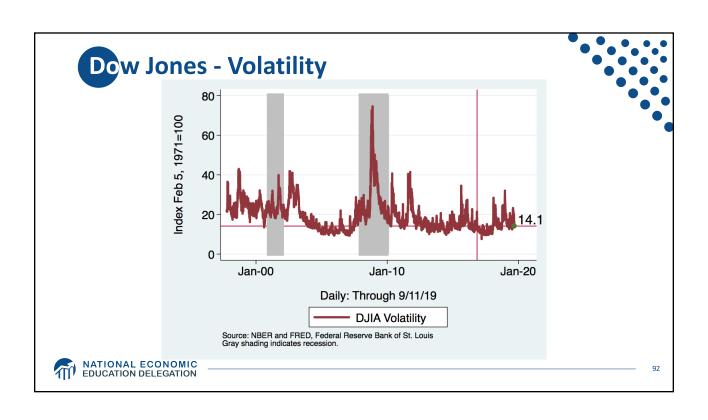


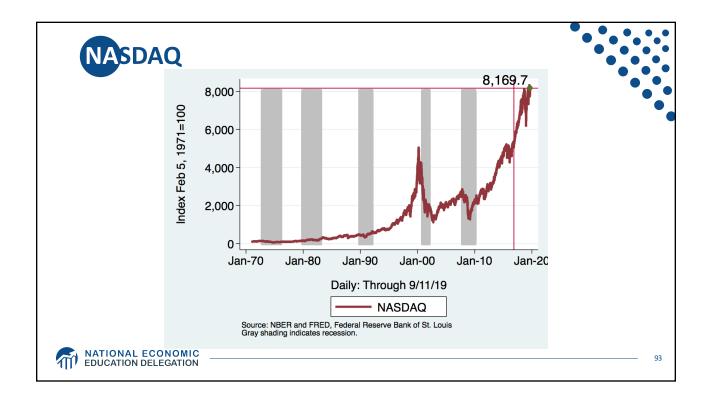












## Summary of GDP, Labor Markets and Monetary Police

#### Behavior of GDP

- Behavior of expenditure components matter.
- On average, post-recession consumption, government, and export. expenditures are contributing less to GDP therefore slowing the recovery.
- In contrast, investment expenditures are contributing more.

#### Labor Market

- Unemployment is low, labor force participation is stagnant
- Real wages may be starting to grow.

### Monetary Policy

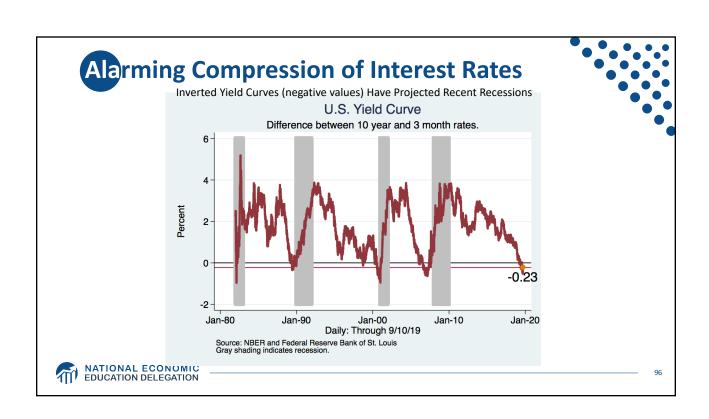
- Interest rates are rising.
- Policy normalization is underway.

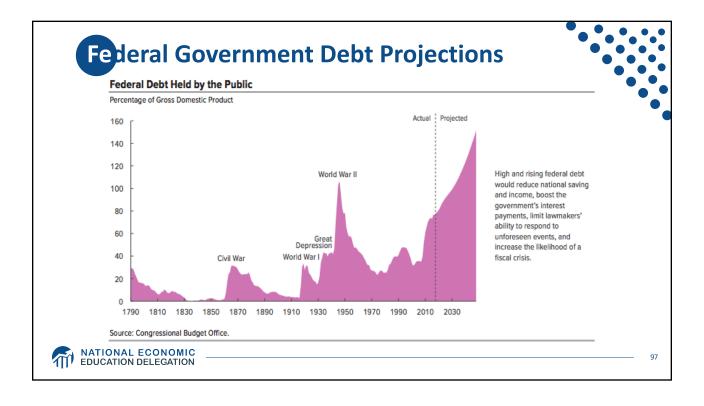


# Things to Be Worried About

- Yield Curve
- Government Debt
- Growth Abroad
- Income and Wealth Inequality
- Infrastructure
- Savings
- Policy Uncertainty
  - Trade and immigration policy, especially







## Cautious Outlook



- · Job growth remains robust
- Labor force is in decline
- Wage growth, but not too much
- Business investment is robust, but will uncertainty bite?
- Inflation and interest rates remain favorable
- Potential source of concern:
  - Auto and light truck sales are slowing
  - Home building is slowing



# **Overall Summary**



- Tailwinds and headwinds both exist
  - Economic forecasts for near term are favorable
  - Later 2019 and 2020 forecasts are less sanguine
- There remains room for the economy to grow
  - Labor force growth is available
  - Consumption has room to grow, but there is evidence of slowing
  - Business investment may be slowing
  - Return to productivity growth? But how? What's the next big idea?
- Long term concerns unaddressed
  - Demographics, climate change
  - Federal government debt
  - International trade policy



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### **Any Questions?**



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