

Osher Lifelong Learning Institute, Winter 2022
Contemporary Economic Policy

Clemson University

National Economic Education Delegation



**NATIONAL ECONOMIC
EDUCATION DELEGATION**

Economic Inequality

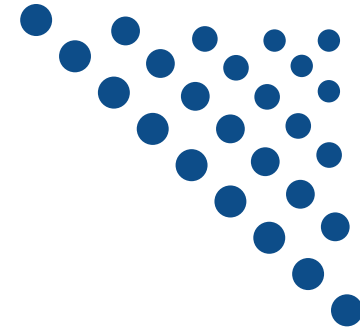
Brian Peterson, Ph.D.

*Senior Associate Academic Dean and Professor of Economics
Central College, Pella, Iowa*

Osher Lifelong Learning Institute, Clemson University

7 March 2022

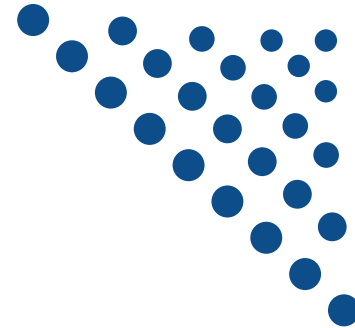
Course Outline



- **Contemporary Economic Policy**

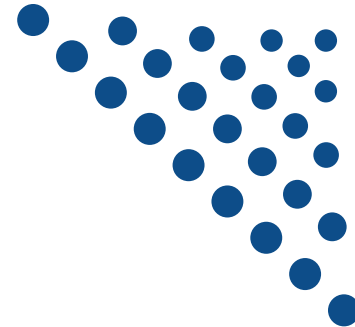
- Week 1 (2/28): US Economy & Coronavirus Economics
- **Week 2 (3/7): Economic Inequality (Brian Peterson, Central College)**
- Week 3 (3/14): Cryptocurrencies (Geoffrey Woglom, Amherst College)
- Week 4 (3/21): Autonomous Vehicles (Jon Haveman, NEED)

Submitting Questions



- **Please submit questions in the chat.**
 - I will try to handle them as they come up but may take them in a bunch as time permits.
- **I will try to leave a few minutes for a verbal Q&A once the material has been presented.**
 - (and the questions in the chat have been addressed)

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.

Who Are We?

- **Honorary Board: 54 members**

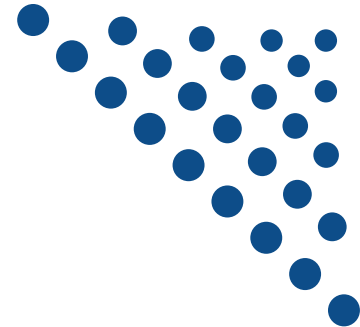
- 2 Fed Chairs: Janet Yellen, Ben Bernanke
- 6 Chairs Council of Economic Advisers
 - Furman (D), Rosen (R), Bernanke (R), Yellen (D), Tyson (D), Goolsbee (D)
- 3 Nobel Prize Winners
 - Akerlof, Smith, Maskin

- **Delegates: 650 members**

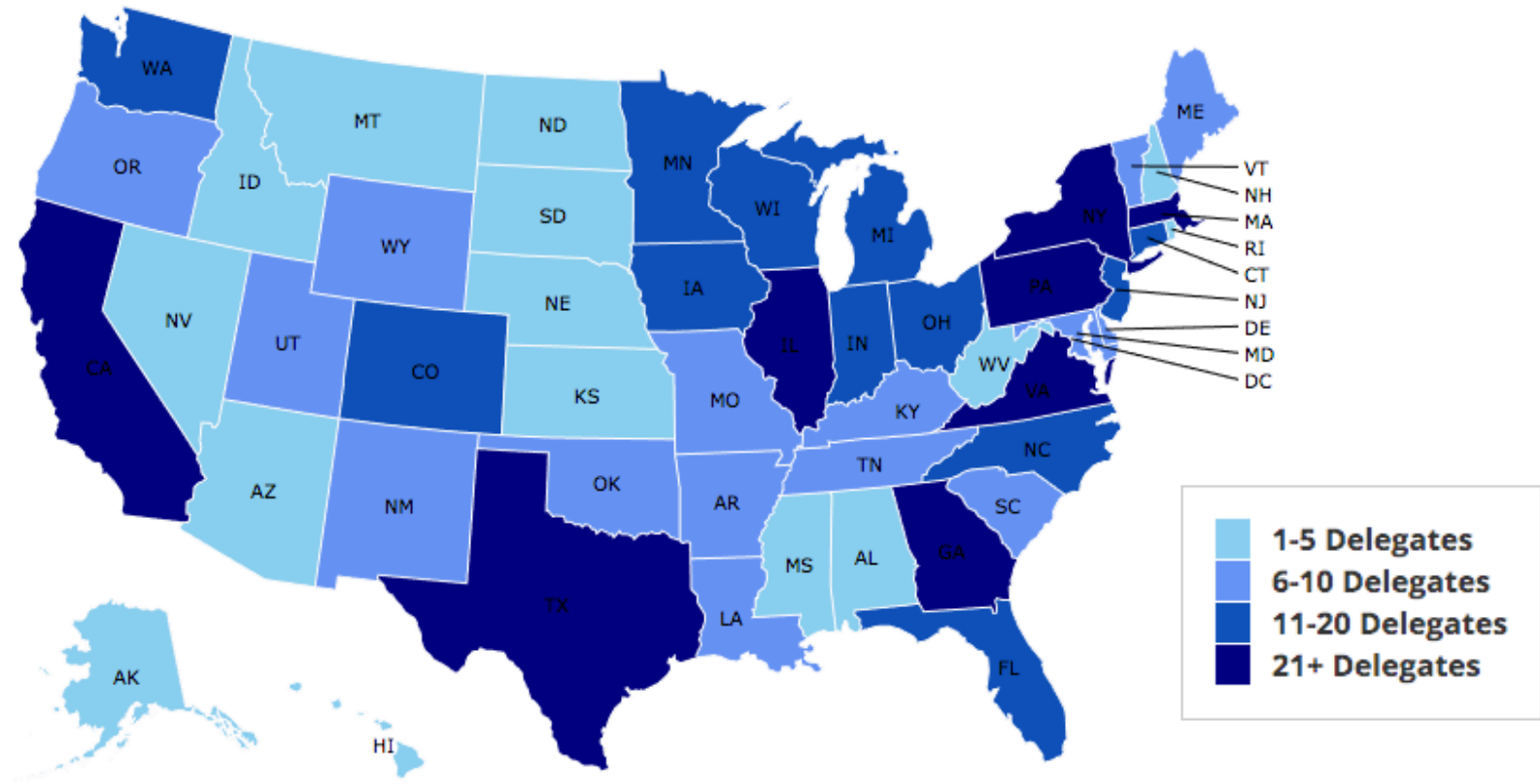
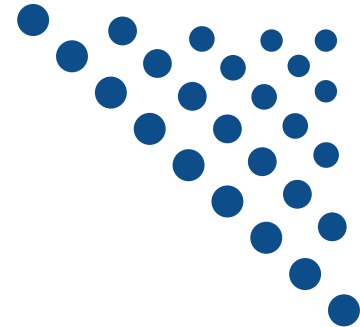
- At all levels of academia and some in government service
- All have a Ph.D. in economics
- Crowdfund slide decks
- Give presentations

- **Global Partners: 48 Ph.D. Economists**

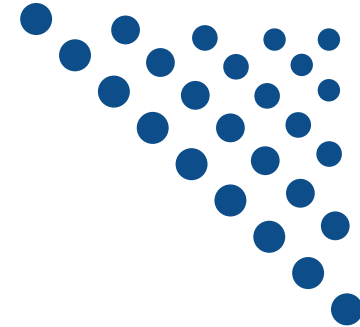
- Aid in slide deck development



Where Are We?

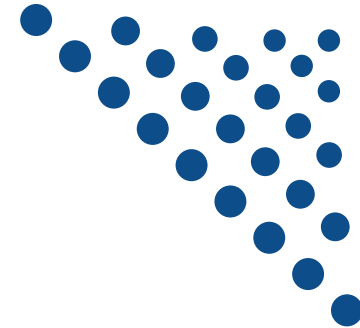


Available NEED Topics Include:



- Coronavirus Economics
- US Economy
- Climate Change
- Economic Inequality
- Economic Mobility
- Trade and Globalization
- Minimum Wages
- Immigration Economics
- Housing Policy
- Federal Budgets
- Federal Debt
- Black-White Wealth Gap
- Autonomous Vehicles
- US Social Policy

Credits and Disclaimer



- **This slide deck was authored by:**
 - Jon Haveman, Executive Director of NEED
- **This slide deck was reviewed by:**
 - Timothy Smeeding, University of Wisconsin
 - Robert Wright, Augustana 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)



**NATIONAL ECONOMIC
EDUCATION DELEGATION**

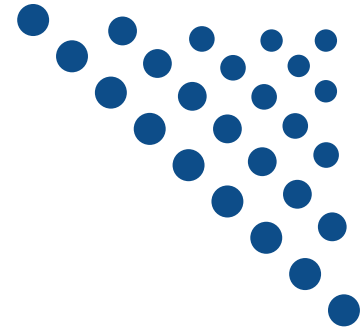
Economic Inequality

Brian Peterson, Ph.D.

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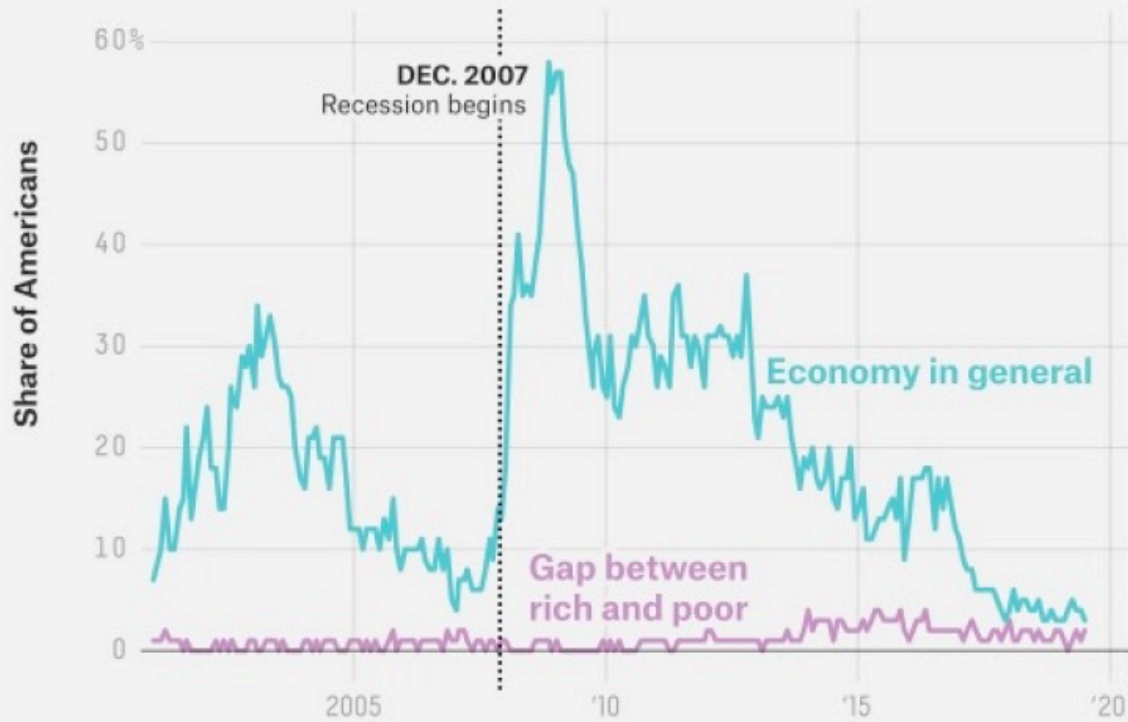
Osher Lifelong Learning Institute, Clemson University

7 March 2022



Few Americans prioritize economic inequality

Share of Americans who said the “economy in general” or the “gap between rich and poor” was the most important issue facing the country

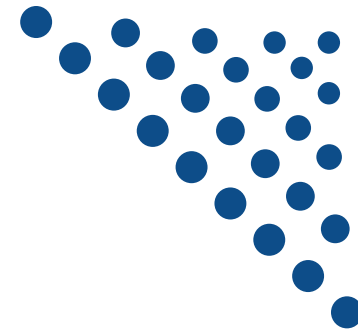


FiveThirtyEight

SOURCE: GALLUP

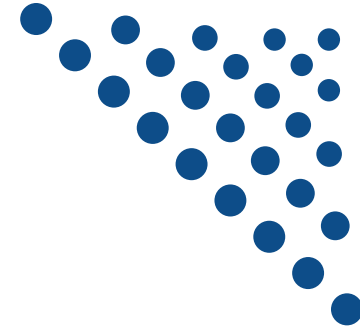


Outline



- **Definition**
- **Measurement**
- **How does it happen?**
- **Does it matter?**
- **Is it a problem?**
- **What do we do about it?**

Economic Inequality: Income



- **Definition:**

- The extent to which the distribution of income deviates from complete equality
- The dispersion of income throughout the economy

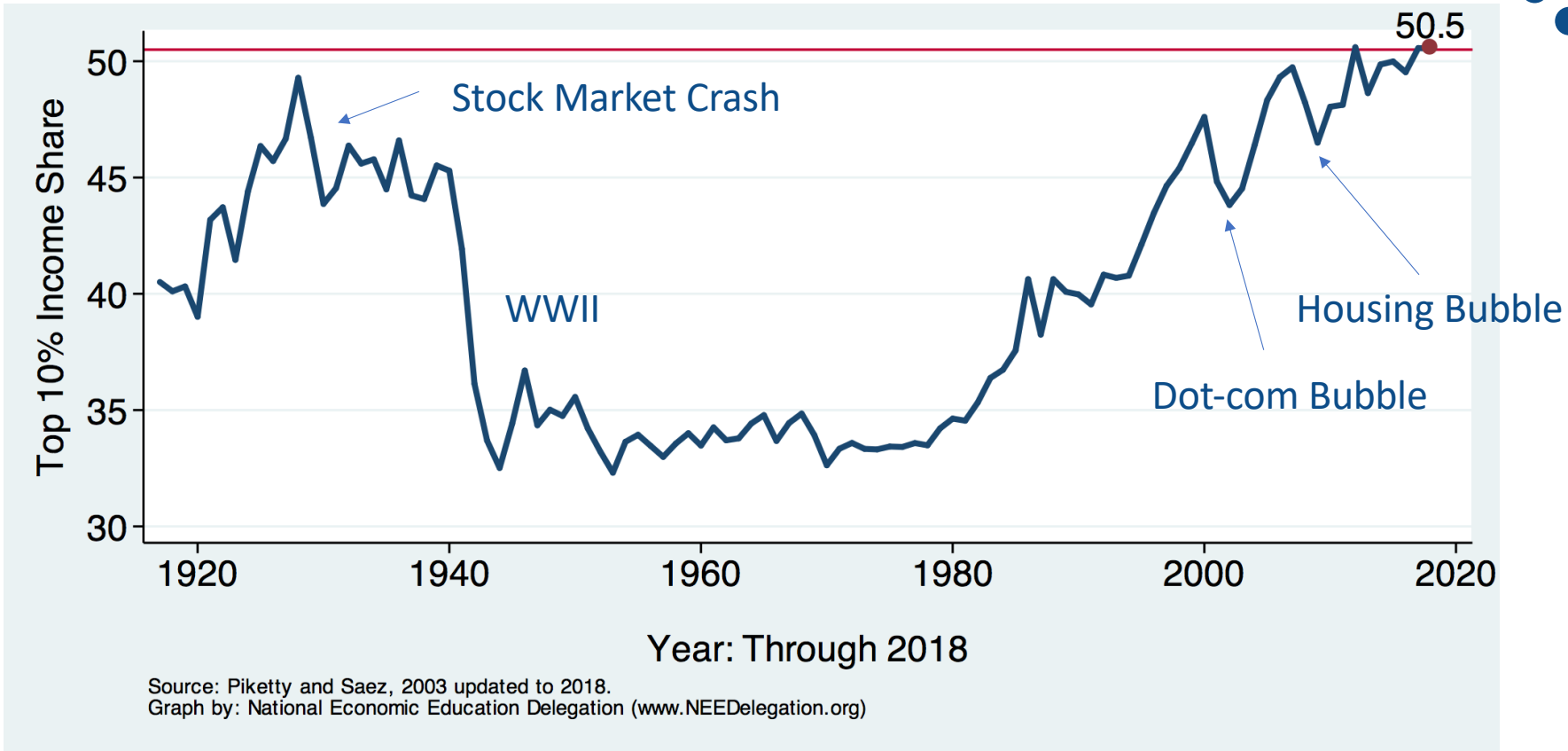


Different Ways of Thinking About Inequality

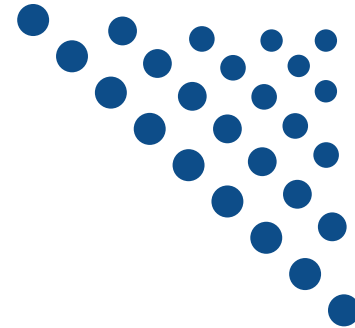


- **Income Inequality**
 - Before taxes and transfers
 - After taxes and transfers
- **Wealth Inequality**
- **Consumption Inequality**

National Income Inequality: Share of Top 10%



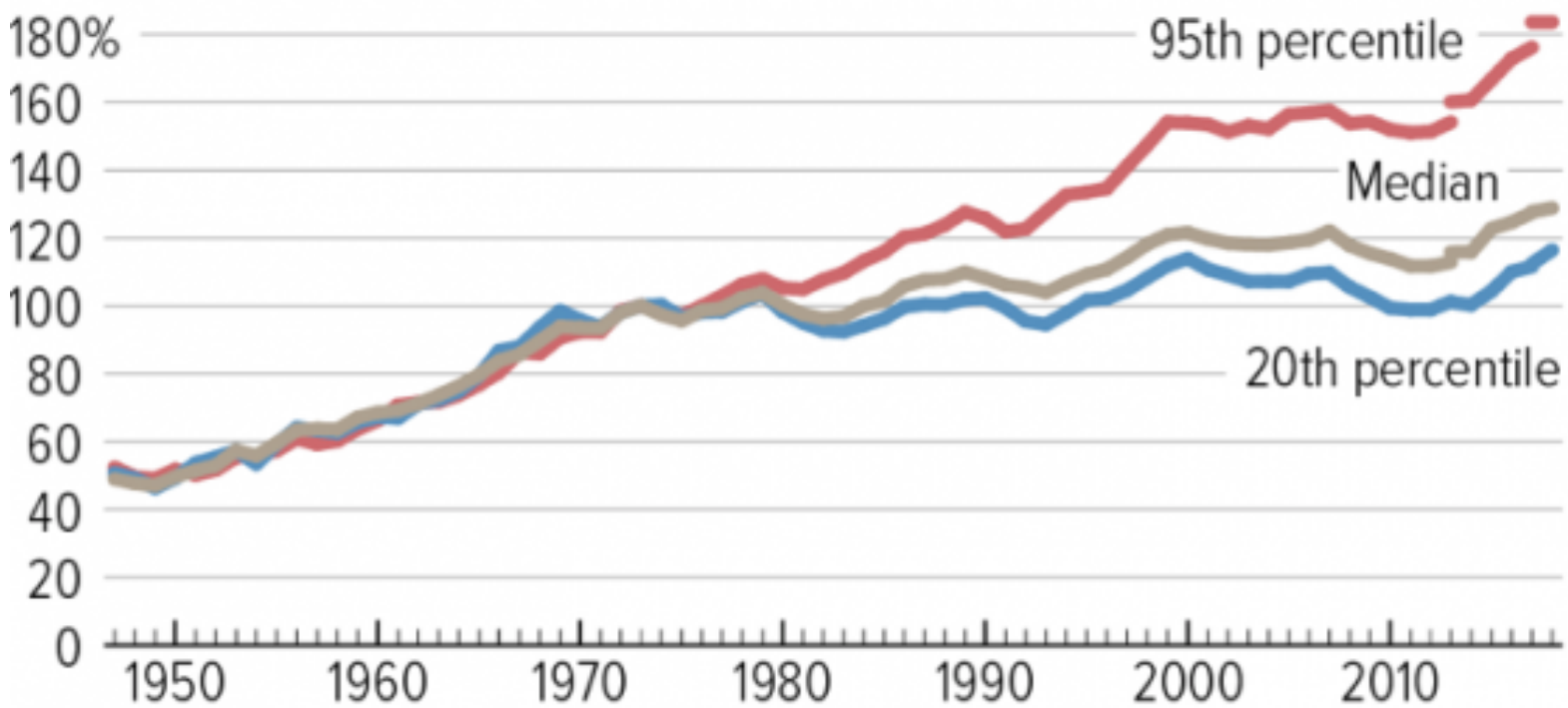
Recent Facts on Income Inequality



- **Beginning in the 1970s, the income gap widened.**
 - Income in the middle and lower parts of the distribution slowed
 - Incomes at the top continued to grow strongly
 - Income shares at the very top of the distribution rose to levels last seen more than 80 years ago

The Abrupt Increase in Inequality

Real family income between 1947 and 2018, as a percentage of 1973 level



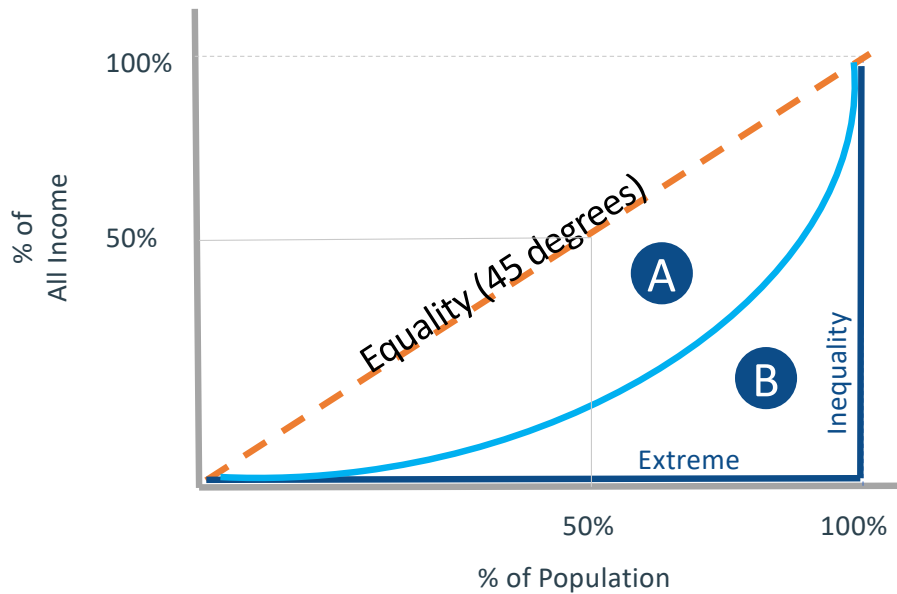
The Gini Coefficient



- **A common way to describe income inequality is by using a Gini coefficient.**
- **Gini coefficient – a numerical measure of the overall dispersion of income**
 - Ranges from 0 – 1
 - 0= perfect equality – everyone has same income
 - 1=perfect inequality – one person makes all income, no one else has any
 - In practice:
 - 0.5 – 0.7 – highly unequal
 - 0.2 – 0.35 – relatively equal



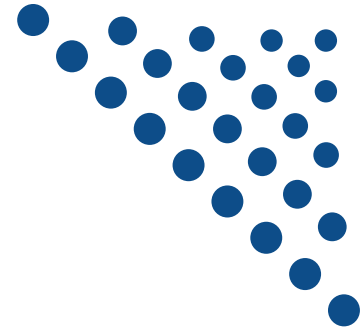
The Gini Coefficient



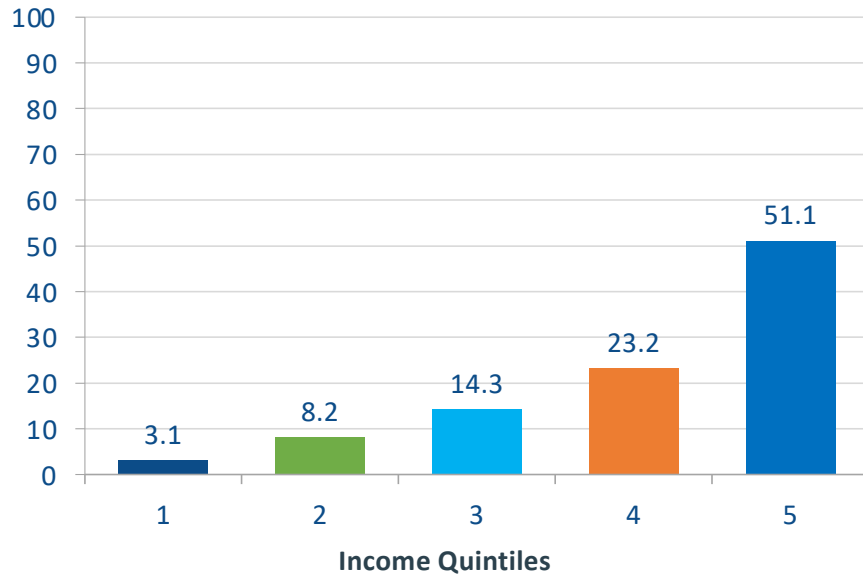
$$\text{Gini} = \frac{A}{A + B} \times 100$$

Bigger A: More inequality
Smaller A: Less inequality

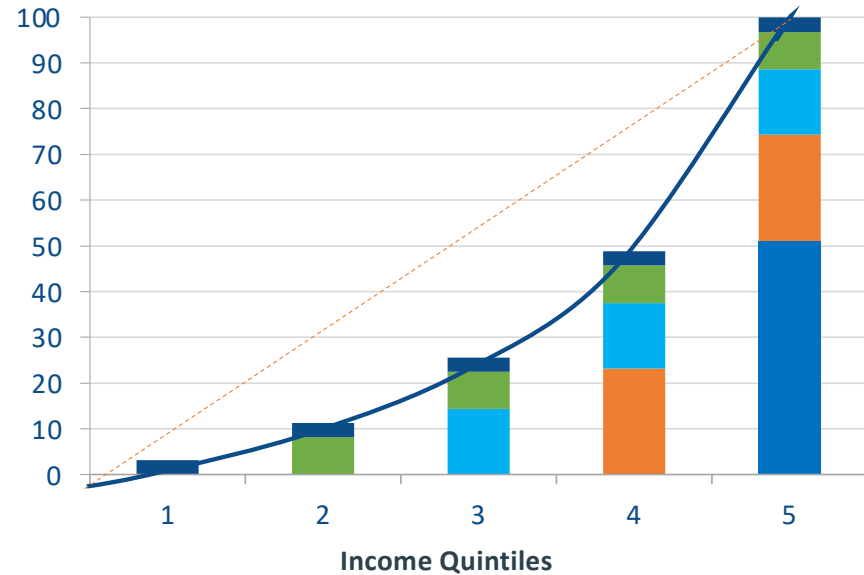
Forming the GINI Coefficient: 2015



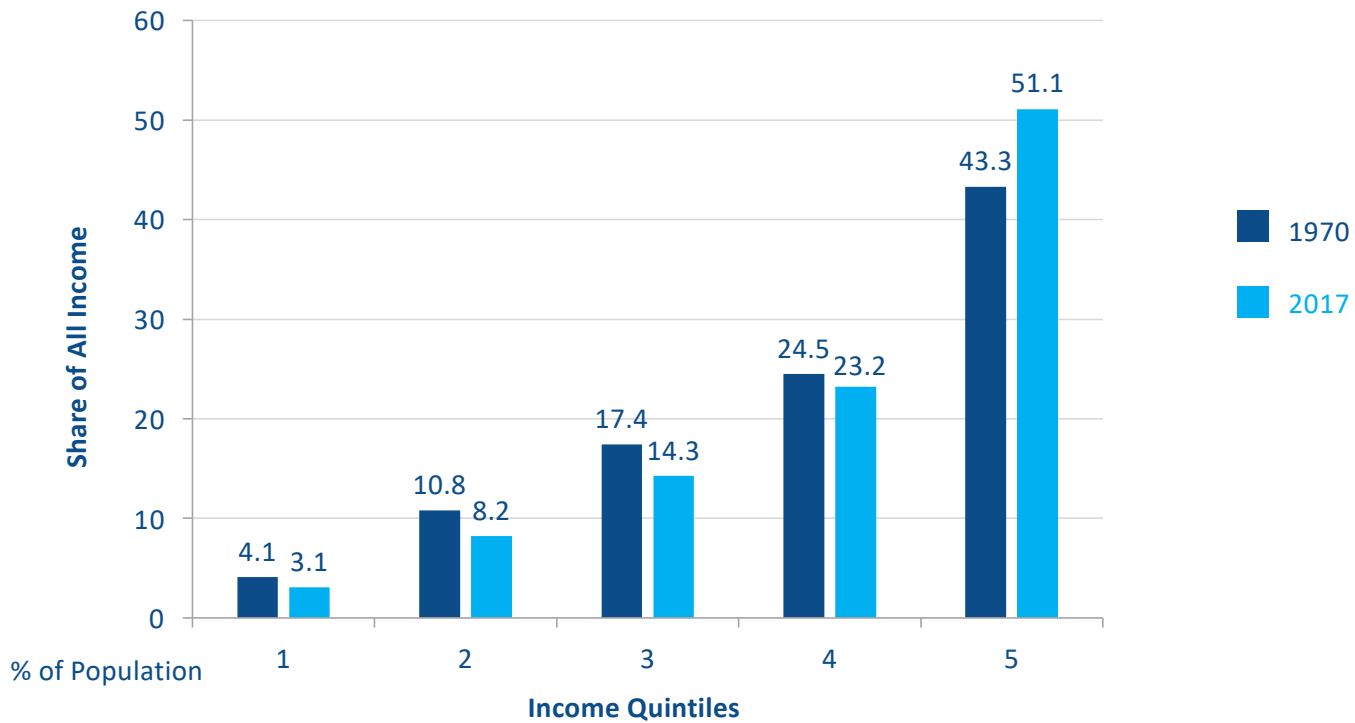
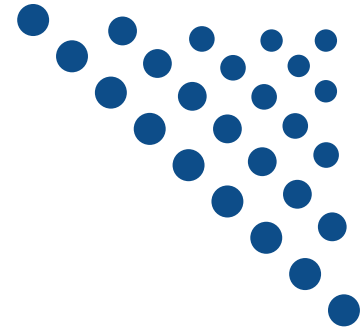
Quintile Shares of Income



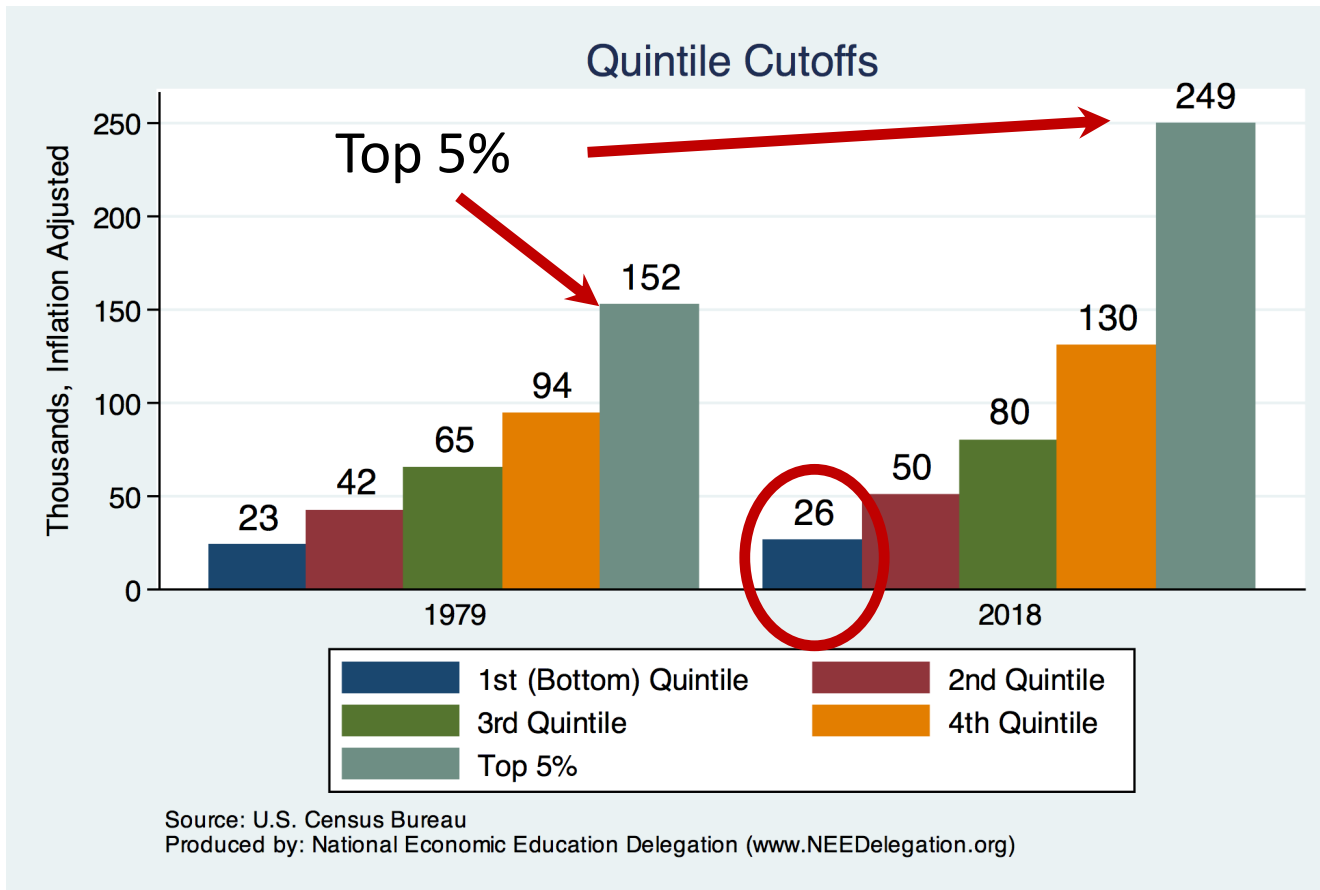
CUMULATIVE Quintile Shares of Income



Income Share Changes Between 1970 and 2017



Quintile Income Cutoffs



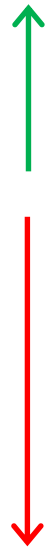
Income Changes from Growing Inequality



Bottom 90%
of Households

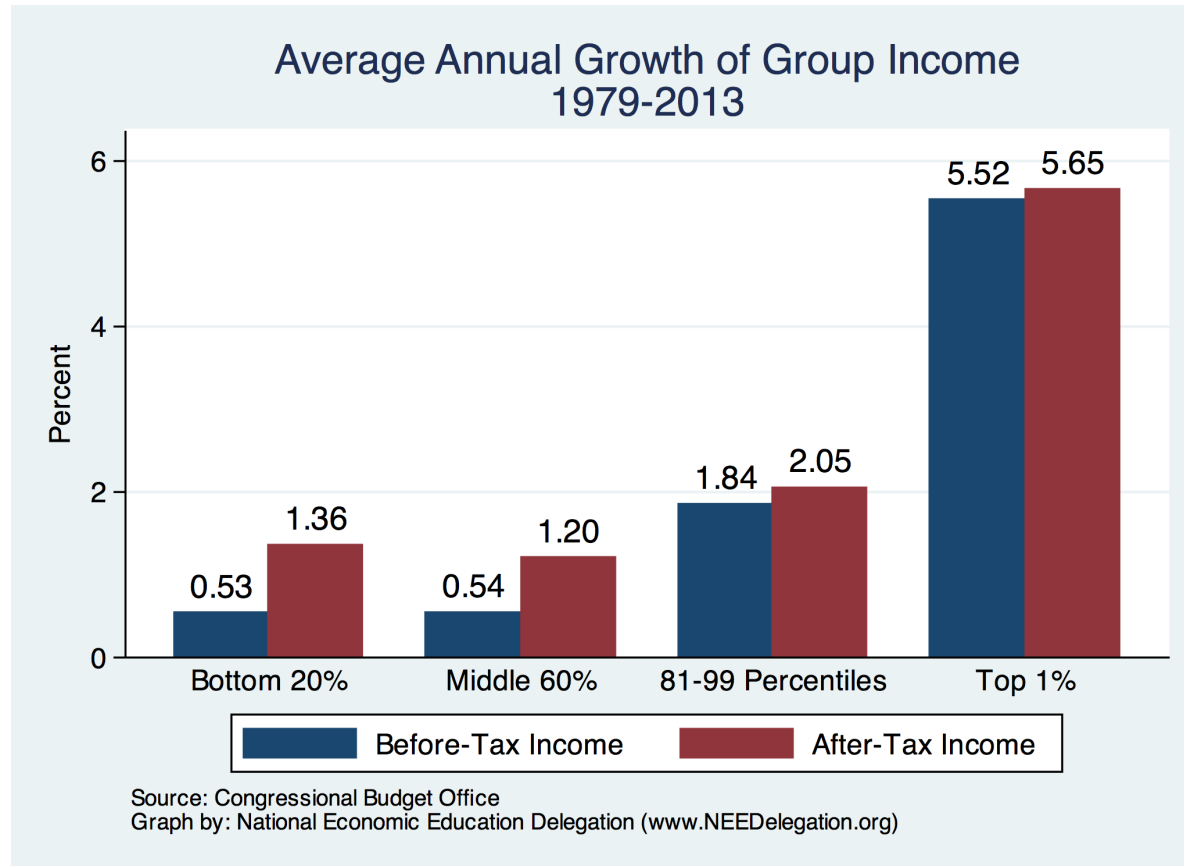
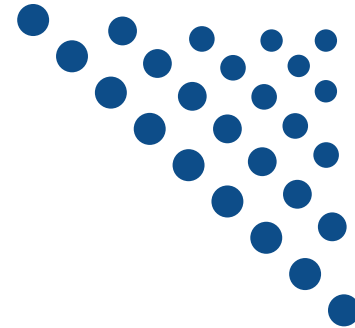


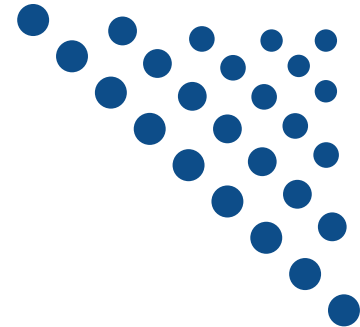
INCOME GROUP	TOTAL LOSS/GAIN IN ANNUAL INCOME*	AVERAGE LOSS/GAIN PER HOUSEHOLD PER YEAR*
TOP 1%	\$673 billion more	\$597,241 more
96-99	\$140 billion more	\$29,895 more
91-95	\$29 billion more	\$4,912 more
81-90	\$43 billion less	\$3,733 less
61-80	\$194 billion less	\$8,598 less
41-60	\$224 billion less	\$10,100 less
21-40	\$189 billion less	\$8,582 less
BOTTOM 20%	\$136 billion less	\$5,623 less



* Compared to what incomes would have been had all income groups seen the same growth rate in 1979-2005 as they did during previous decades.
Source: Jacob Hacker, Yale University; Paul Pierson, UC-Berkeley

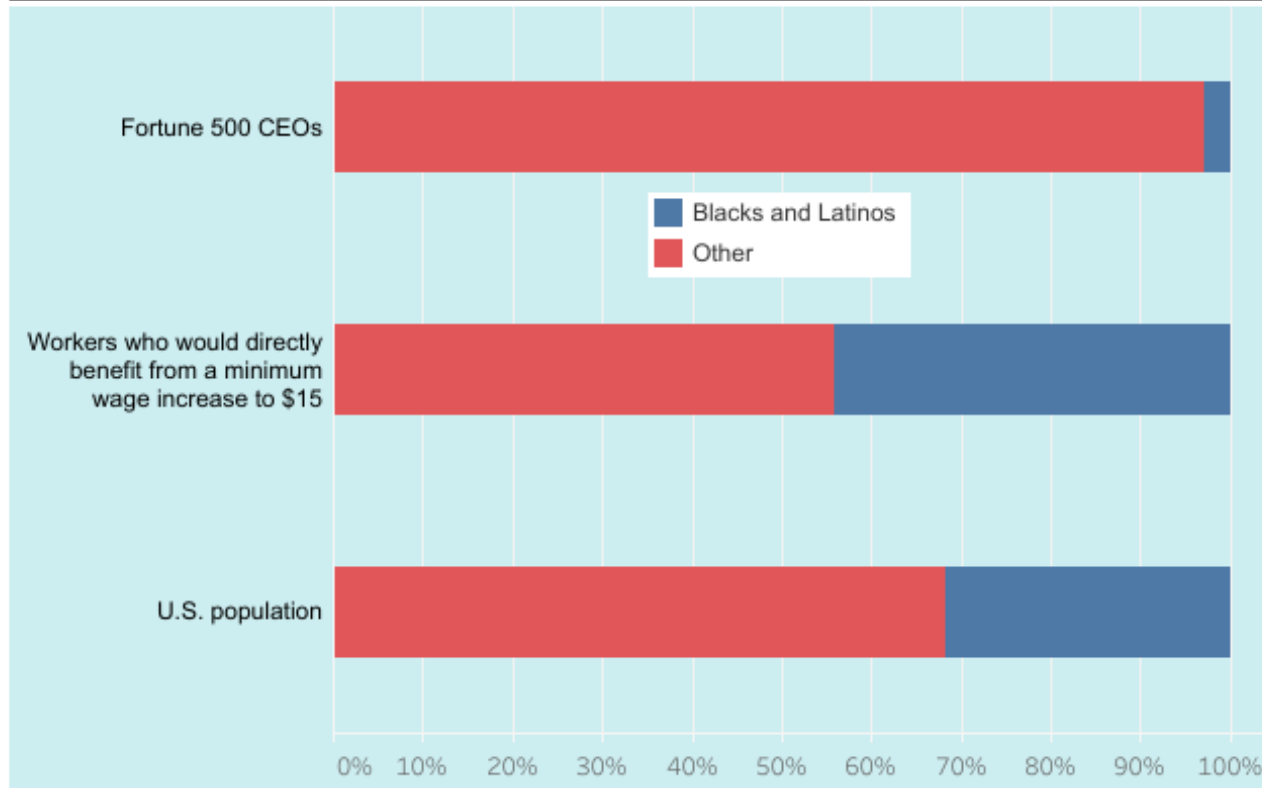
Growth Has Been Primarily at the Very Top





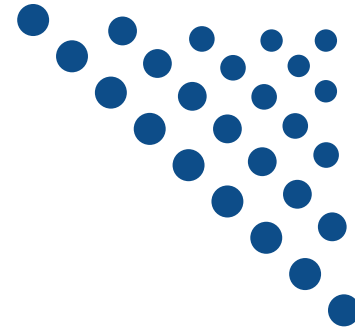
People of Color Are Scarce at Top and Overrepresented at Bottom

U.S. Black and Latino representation, 2018



Sources: Census Bureau, Economic Policy Institute, Fortune, Black Enterprise, and Al Día News

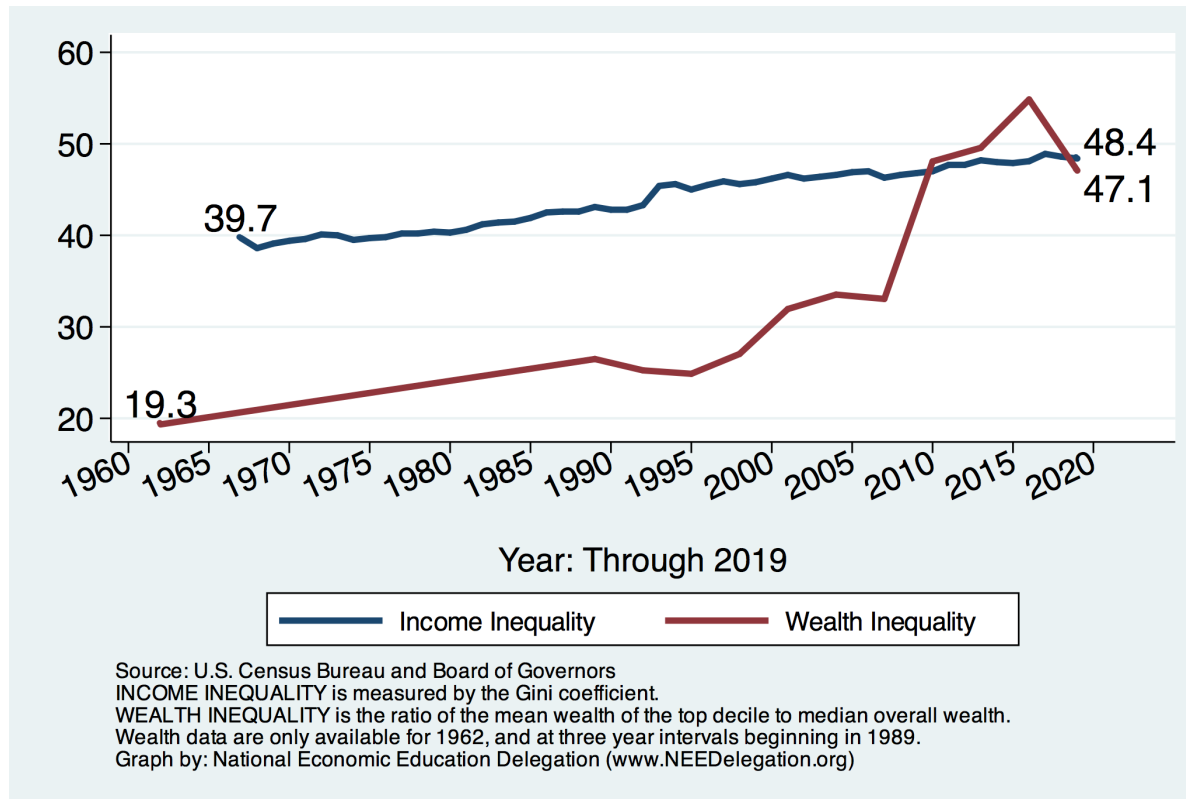
Income Inequality Varies by Location



Gini Coefficients in 2019

- US: 48.1
- SC: 47.5
- Anderson County, SC: 46.8 - (increasing since 2014)
- Pickens County, SC: 43.9 (falling since 2016)

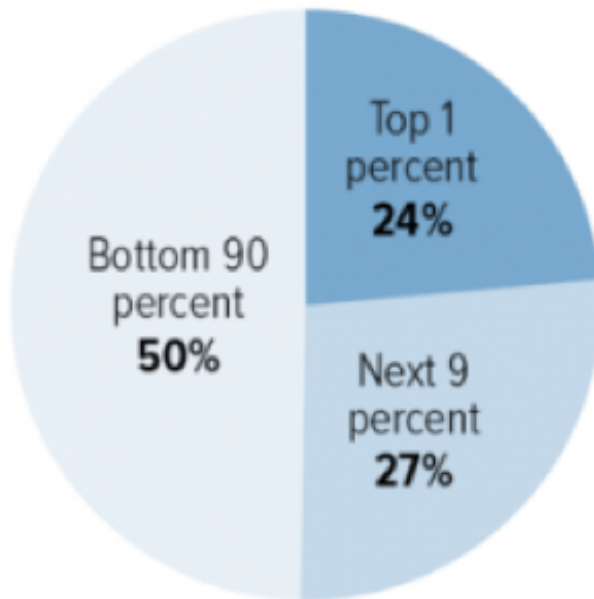
Income and Wealth Inequality



Wealth Inequality Exceeds Income Inequality



Distribution of before-tax income, 2016



Distribution of wealth, 2016

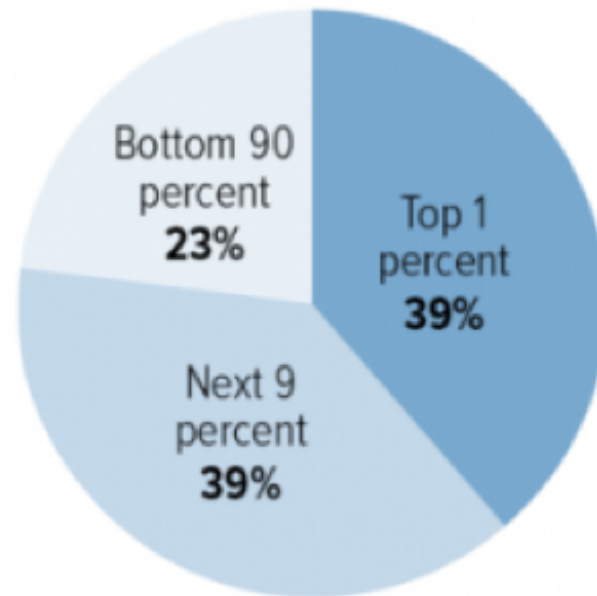
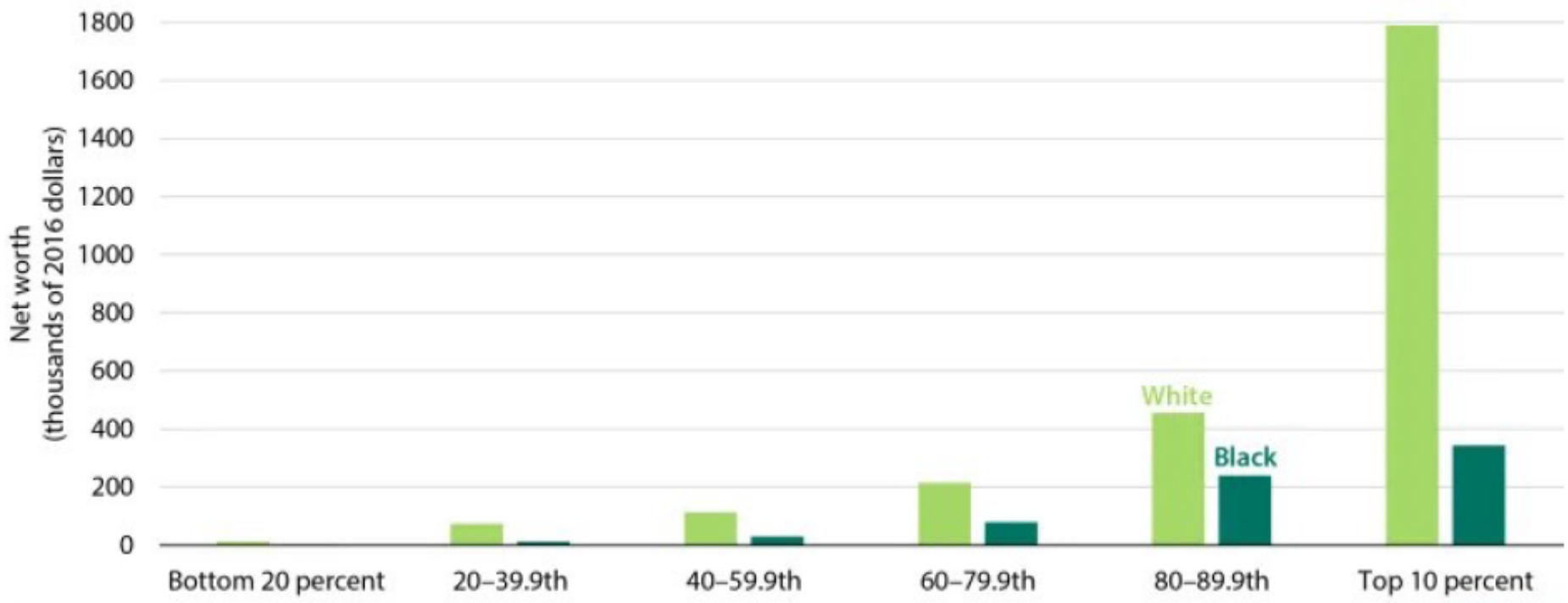


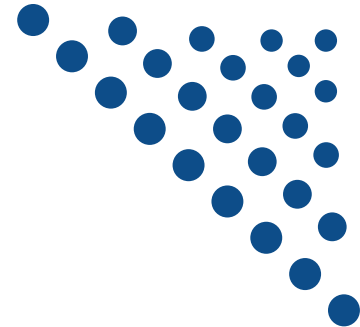


FIGURE 3.
Median Net Worth, by Household Income Percentile

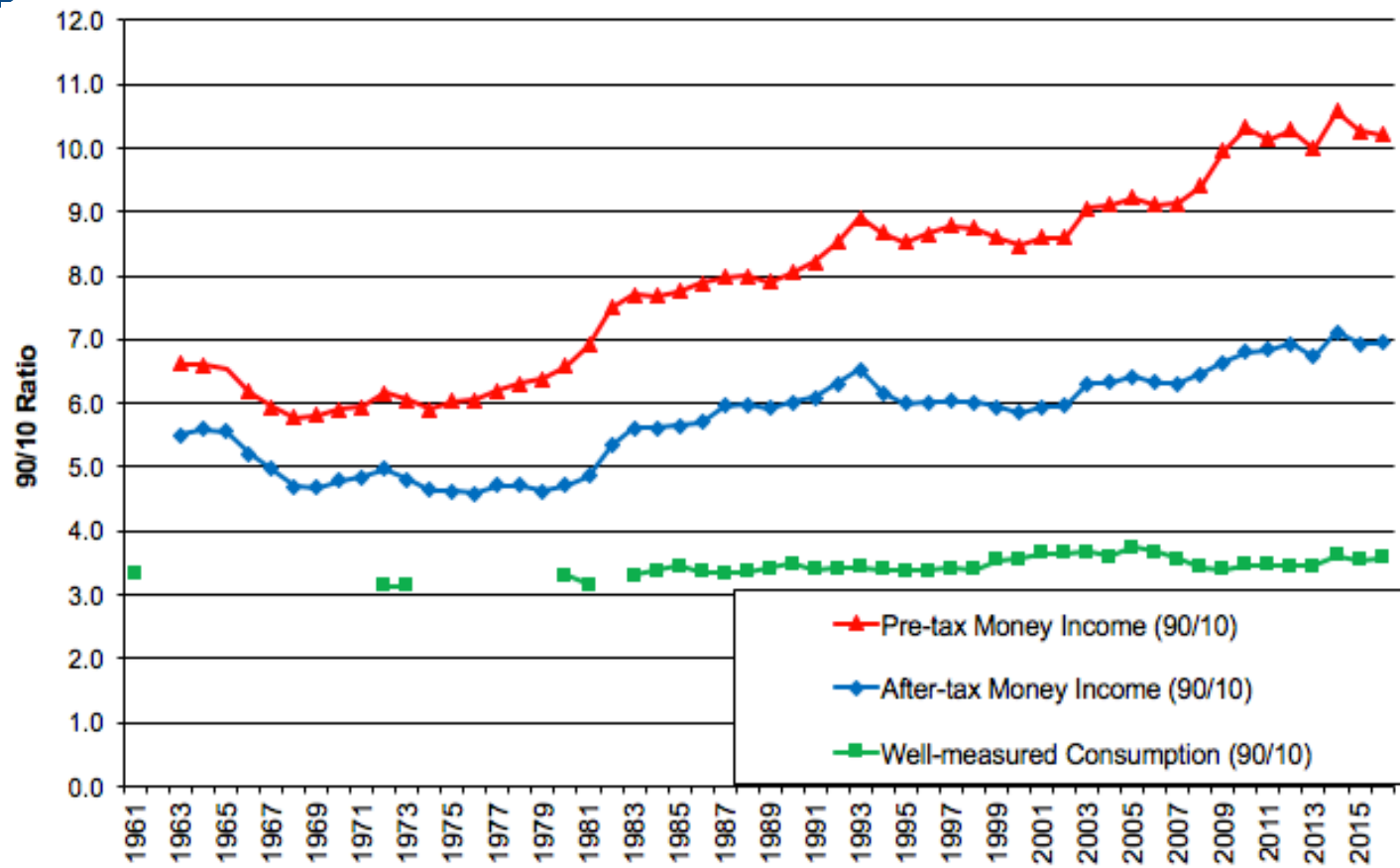


Source: Survey of Consumer Finances 2016; authors' calculations.
Note: Data are from 2016. Net worth refers to the difference between assets and debt for a household head. Race and ethnicity are those of the survey respondent.

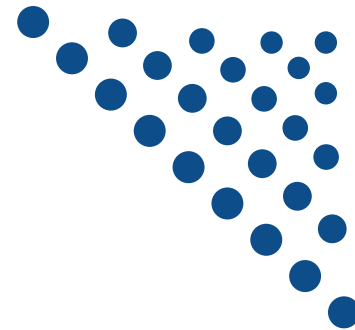




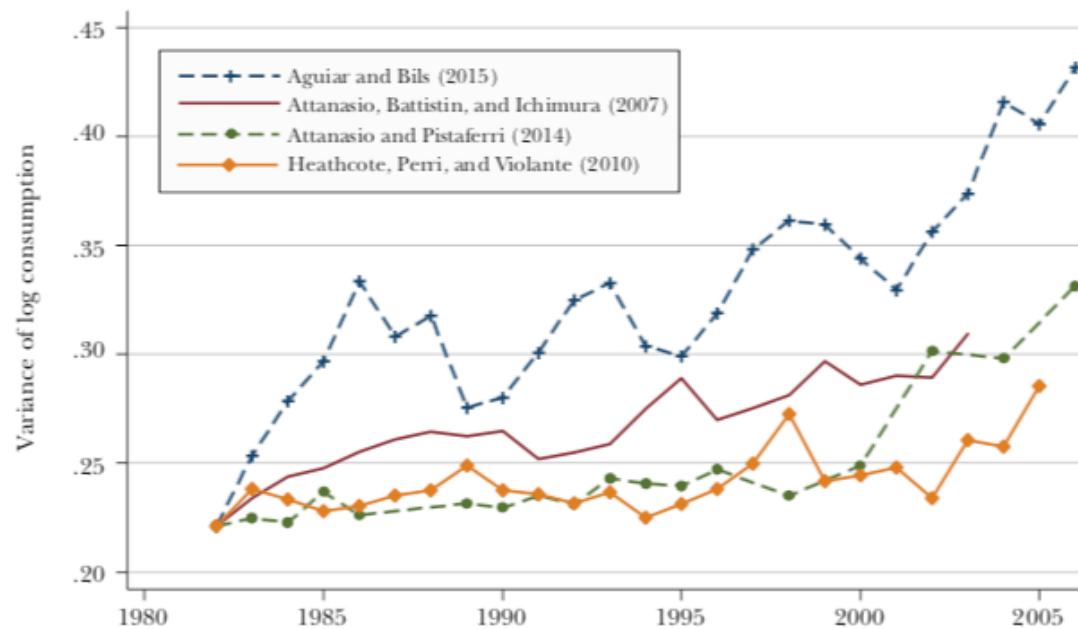
A Third Measure of Inequality: Consumption



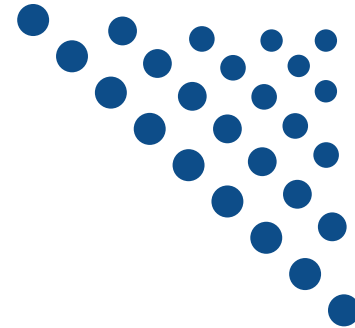
Growing Evidence: Consumption Inequality



The Evolution of Consumption Inequality over Time as Measured by Different Papers

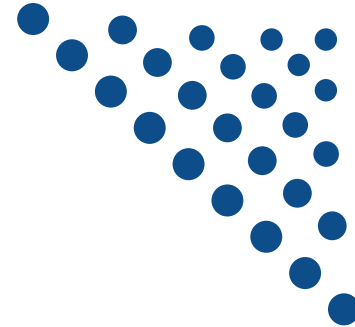


Case Study: Economic Research



- **Early, controversial result is published**
- **Flurry of effort to understand the result**
- **Growing body of evidence**
- **Consensus reached**
 - Not always
 - Sometimes data continue to conflict
 - Often merely a preponderance of evidence drives understanding
- **Why has this happened with consumption inequality?**
 - Inadequacy of data and methods

Where Does Inequality Come From?



- **Labor Characteristics**

- Demographics
 - Age distribution
- Personal Choices
 - Educational attainment
 - Effort
 - Priorities
 - Household composition
- Immigration

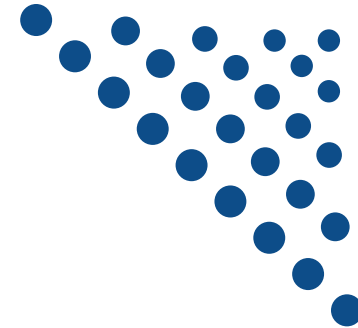
- **Market Forces**

- Technology
- Changing demand patterns
- Competition for labor

- **Government Policy**

- Market influence
- Redistribution

Government Policy and Inequality



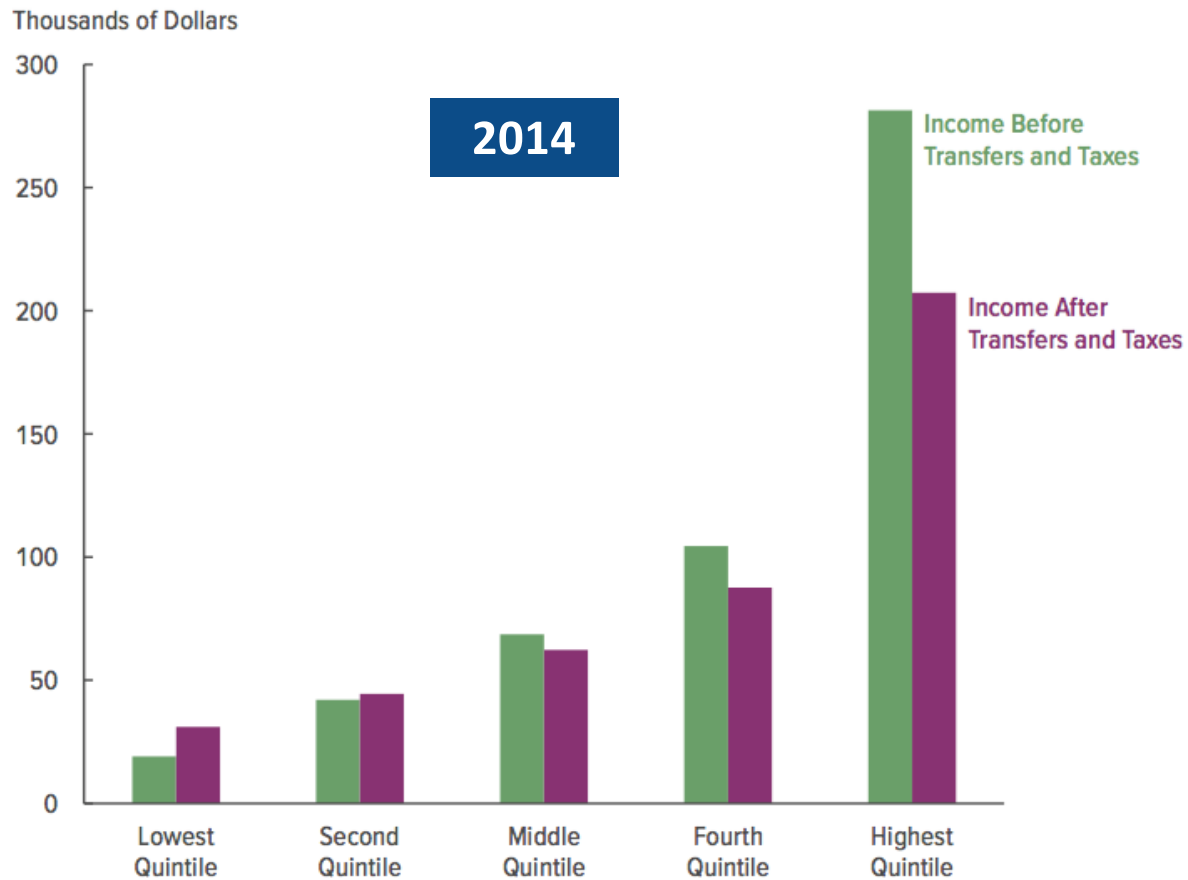
- **Market Influence: PRE-distribution**

- Characteristics of labor
 - Access to education
- Effects on labor demand
 - Market regulation
 - Competition policy
 - Labor regulations
 - Minimum wage, overtime, health insurance, etc.

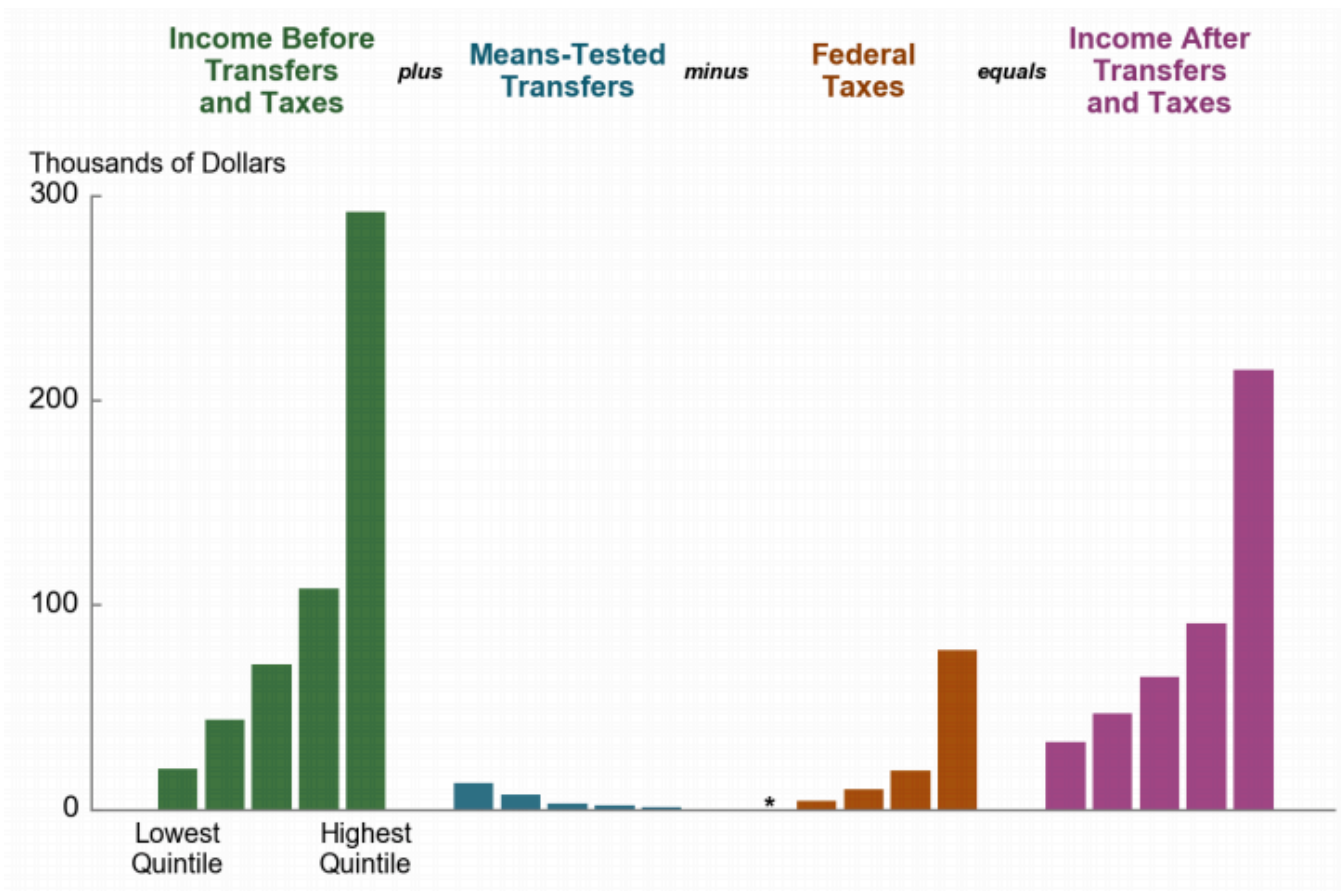
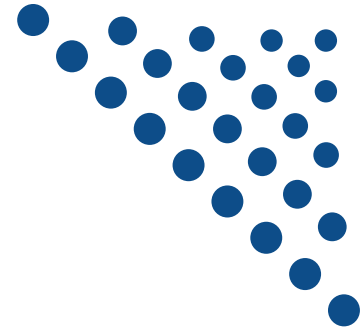
- **RE-distribution**

- Tax Rates
- Income support
 - Direct aid
 - Food stamps

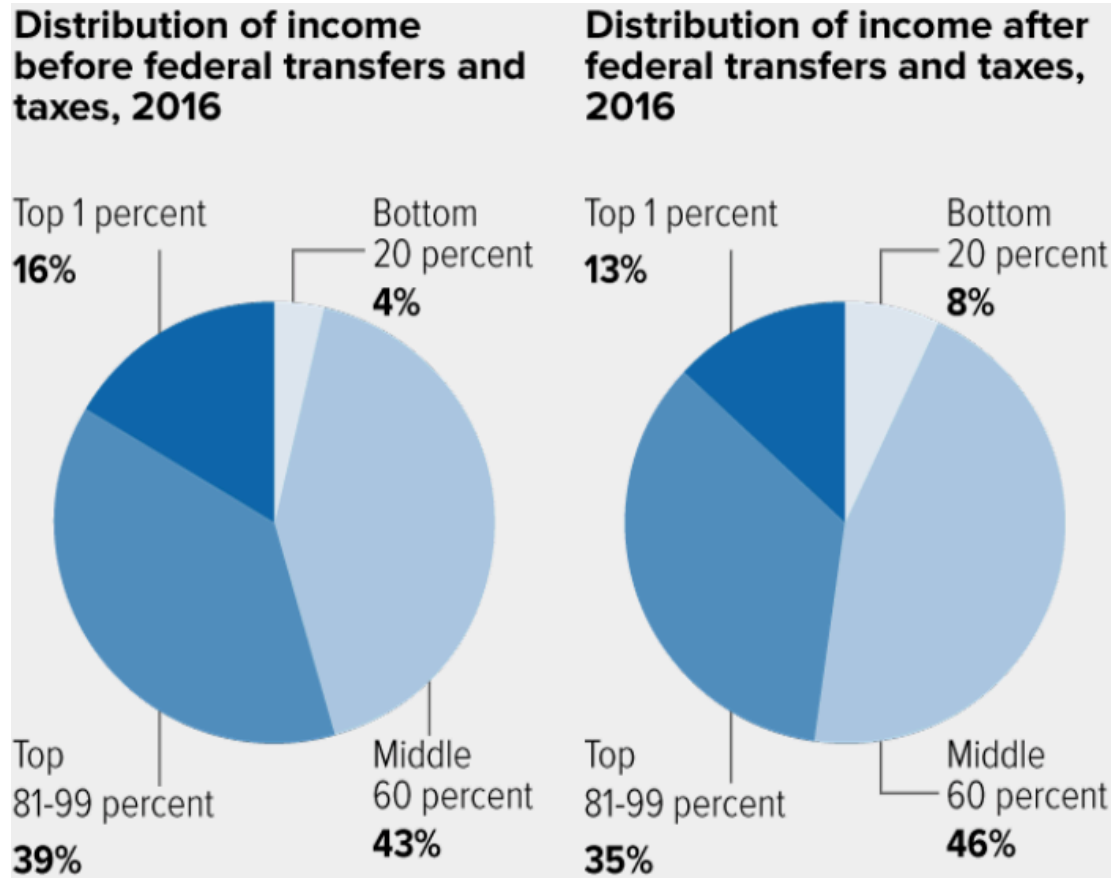
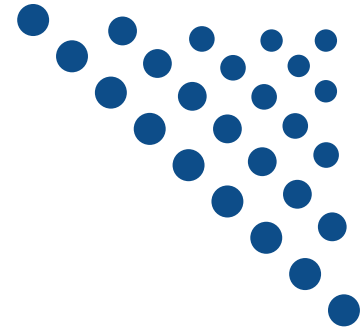
Tax and Transfer Programs and Inequality



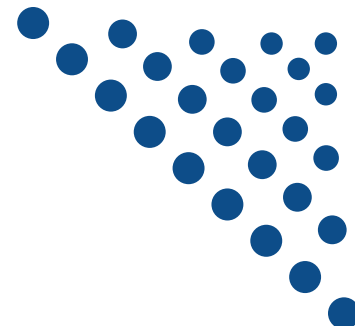
Taxes, Transfers, and Income: 2016



Tax and Transfer Programs: Income Shares

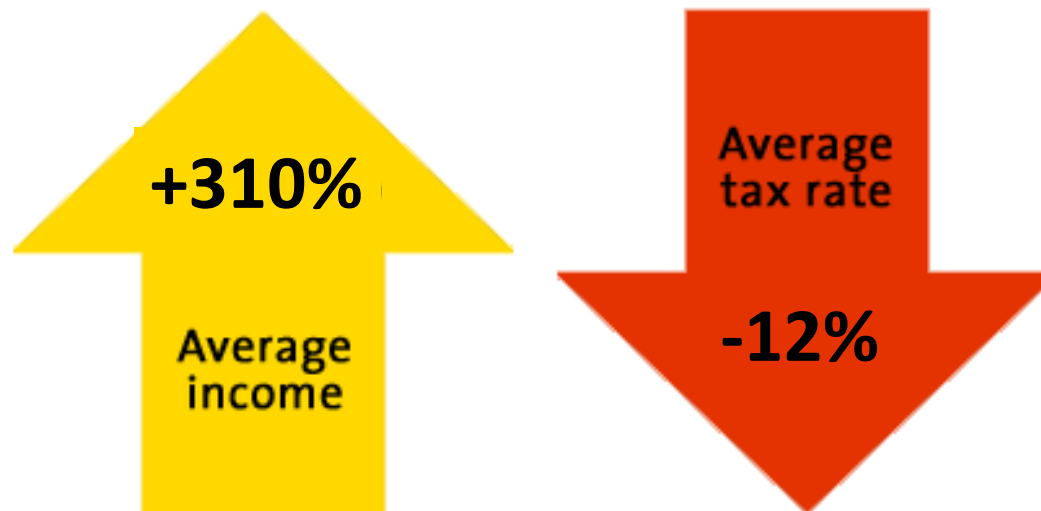


What About Tax Rates?

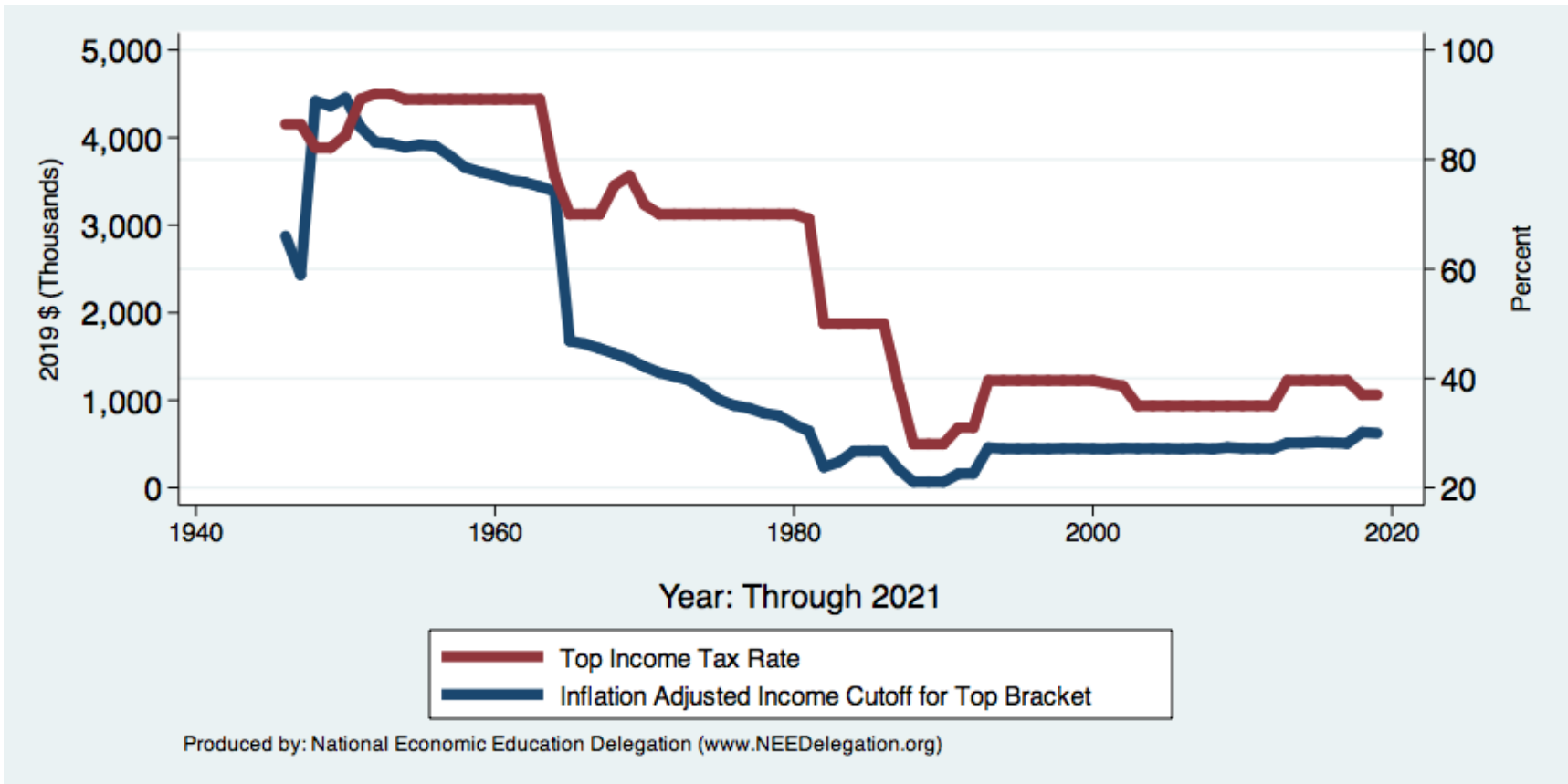
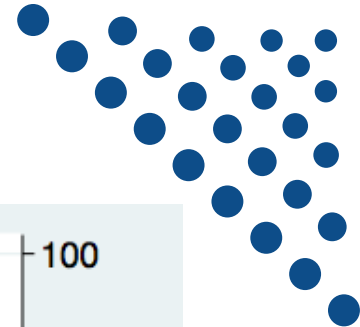


400 TAXPAYERS WITH HIGHEST INCOMES

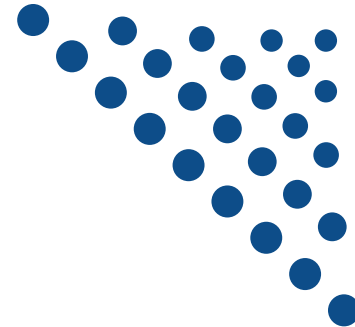
1992-2014



The Top Tax Rate and Income Cutoff



Market Forces and Inequality



- **Changing demand patterns**
 - Technology
 - Globalization
 - Industry composition
 - PCs instead of typewriters
 - Services instead of goods
 - Professional services instead of personal services
- **Competition in labor markets**
 - Unionization
 - Market concentration

Where Does Inequality Come From? Summary



- **Labor characteristics**

- What do workers bring to the market?

- **Market forces**

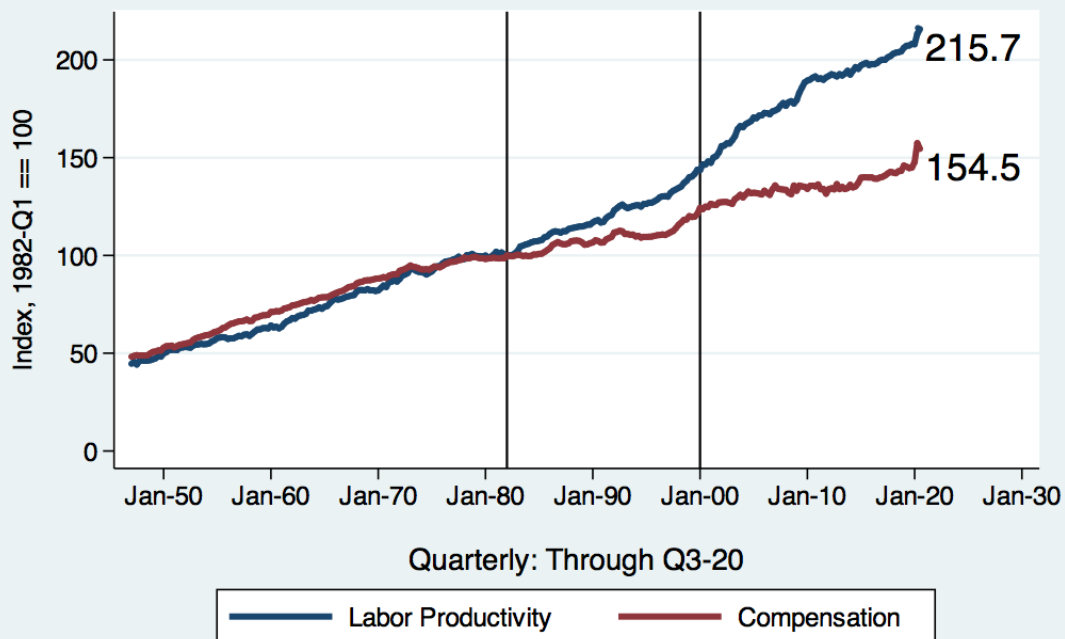
- How does the market value the labor characteristics?

- **Government policies**

- PRE-distribution – affecting markets
- Redistribution – affecting incomes



Labor Income is Unhinged from Productivity



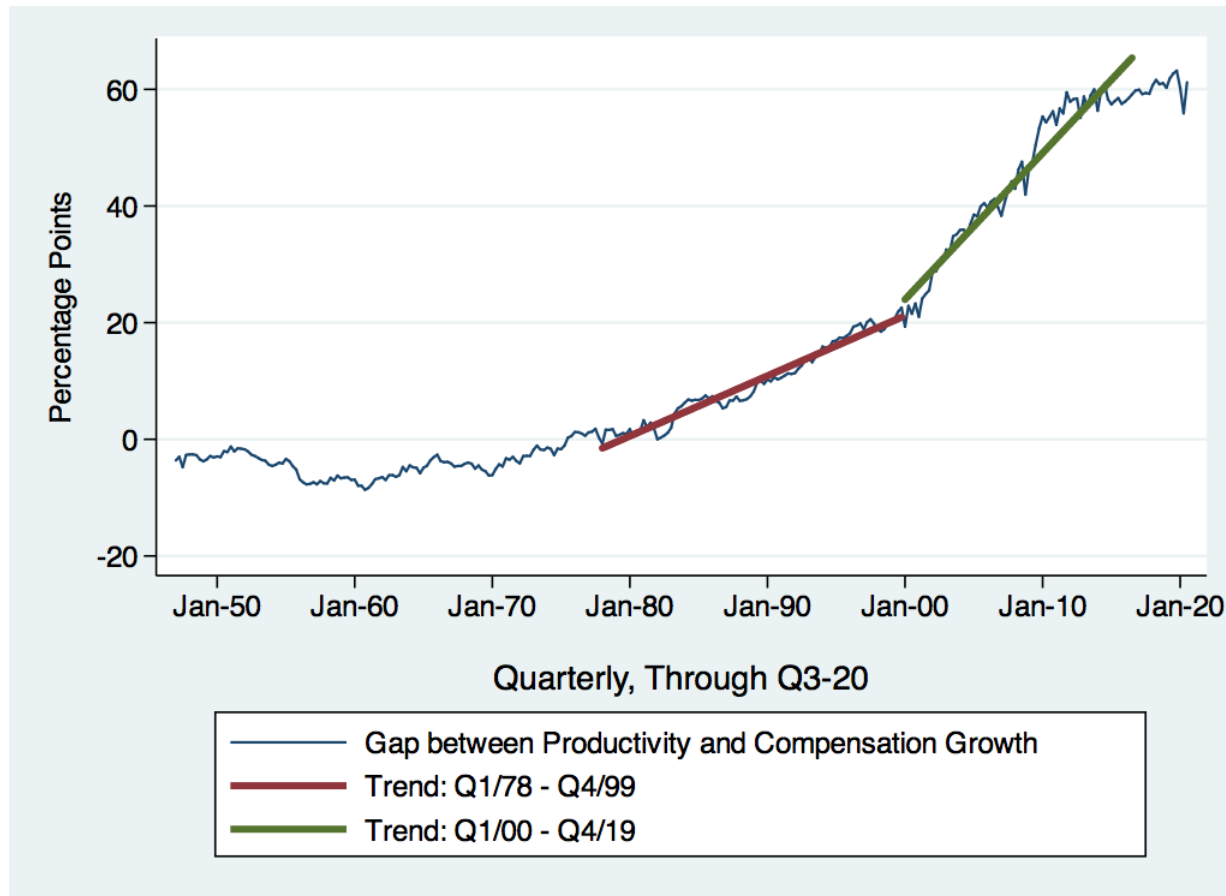
Source: U.S. Bureau of Labor Statistics
Productivity: Nonfarm Business Sector: Real Output Per Hour of All Persons
Compensation: Nonfarm Business Sector: Real Compensation Per Hour
Graph by: National Economic Education Delegation (www.NEEDelegation.org)

Why?

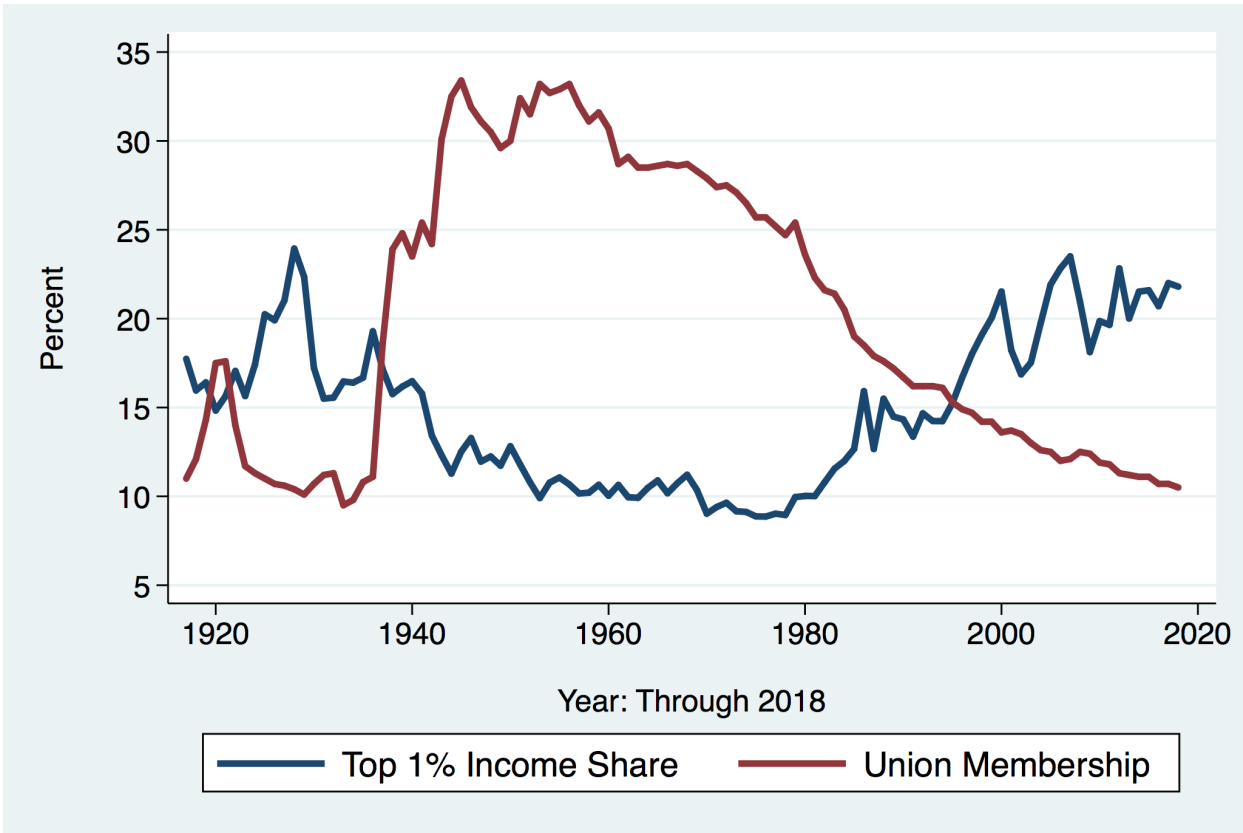
- Declining unionization
- Globalization
- Immigration
- Competition policy
- Cheap technology



Labor Share Gap Acceleration



Declining Unionization



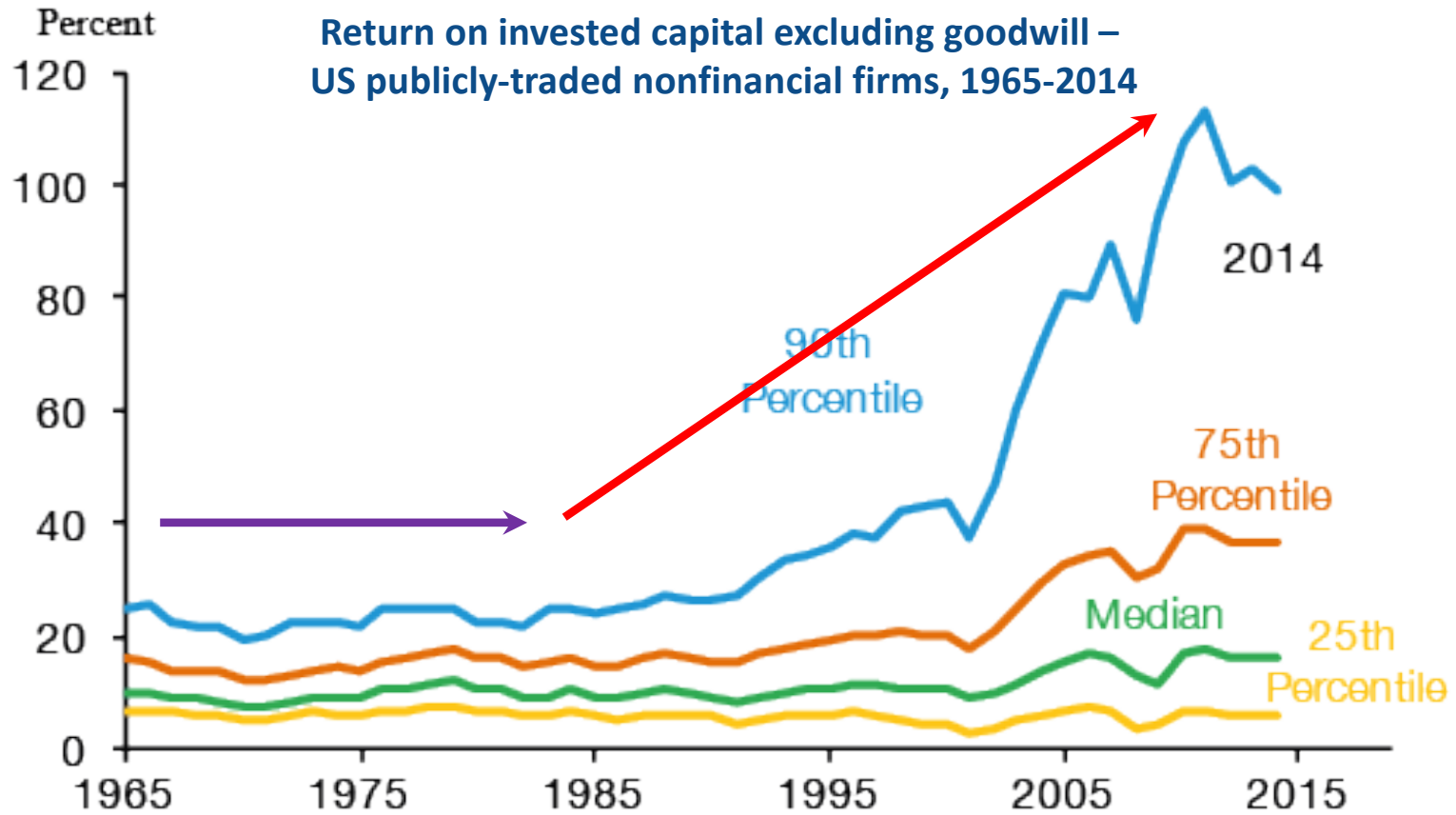
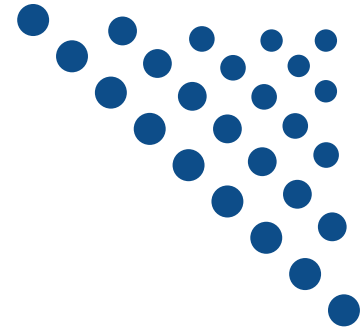
Unionization Rates

- **1983:** 20.1%
- **2018:** 10.5%

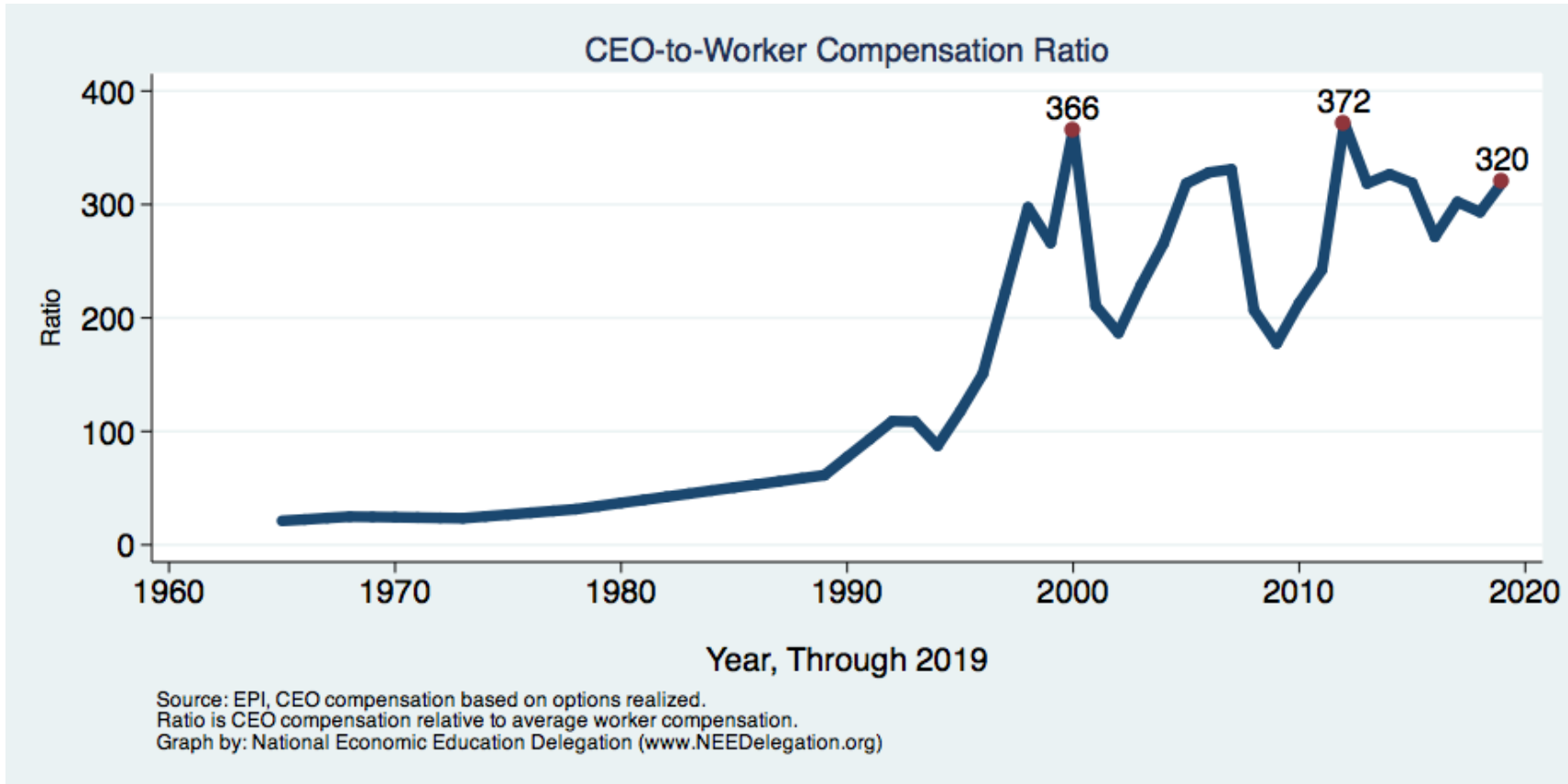
Unionization Rates

- **Public:** 33.9%
- **Private:** 6.4%

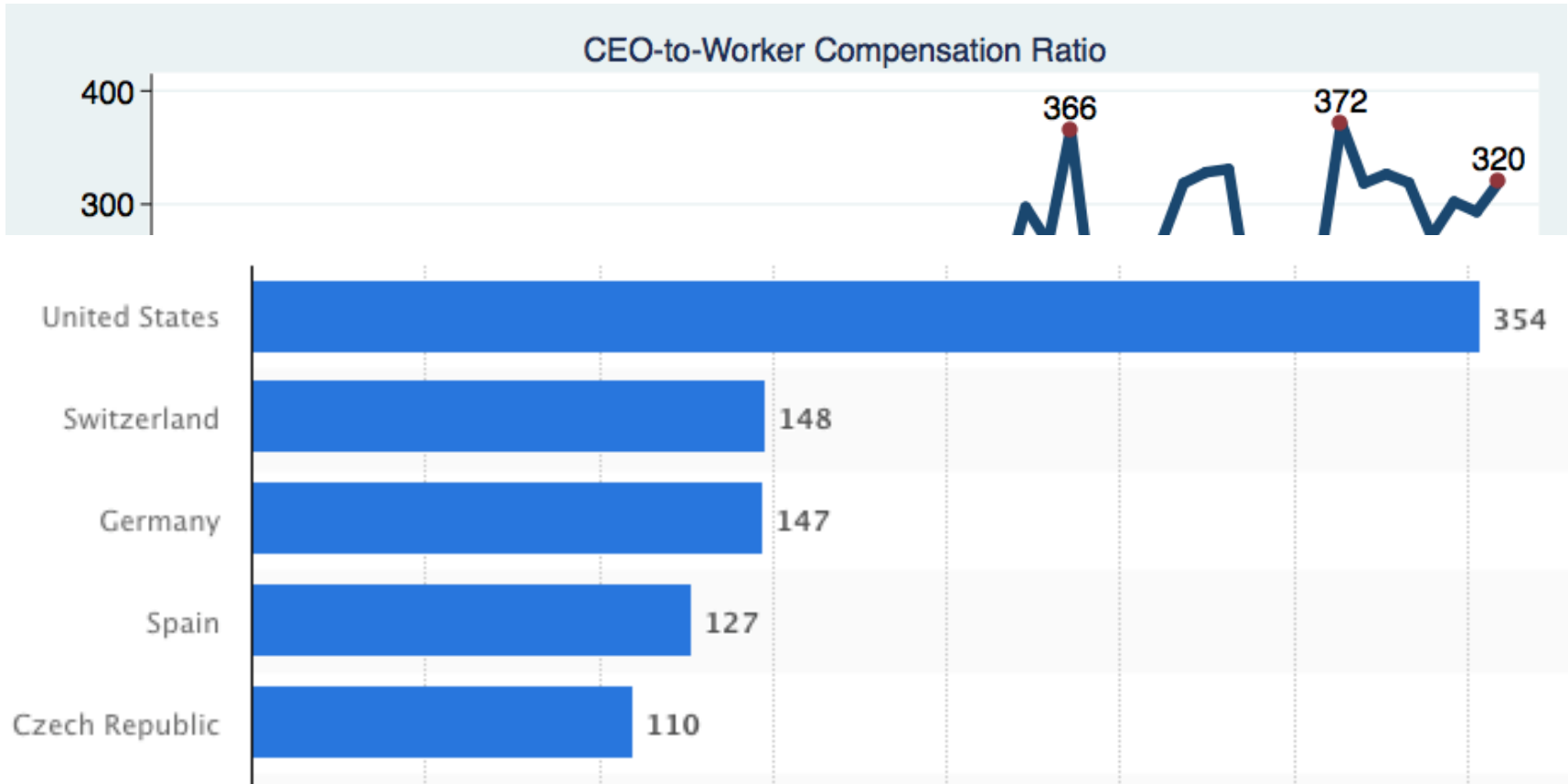
Competition in the Economy



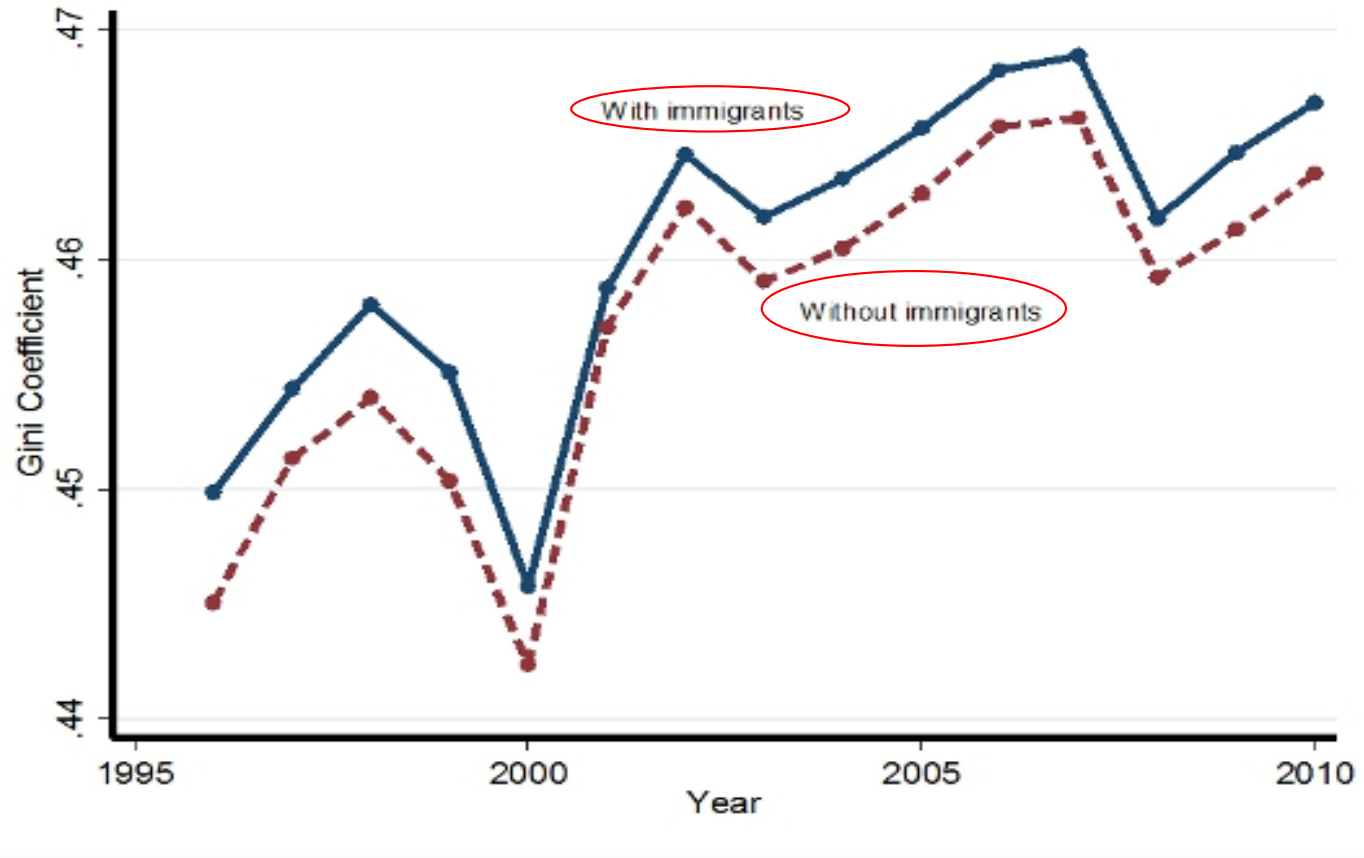
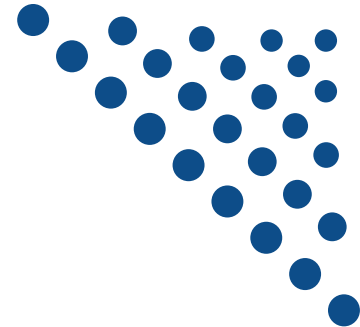
CEO Pay Has Been Growing Rapidly

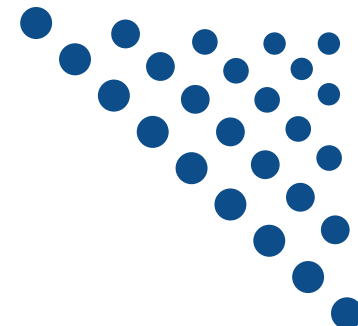


CEO Pay Has Been Growing Rapidly



Immigration and Inequality

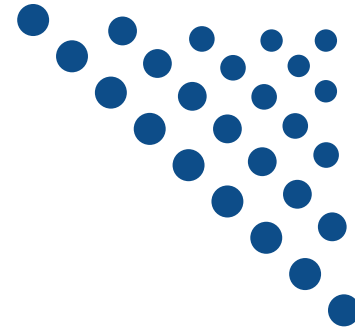




Immigration and Inequality- Summary

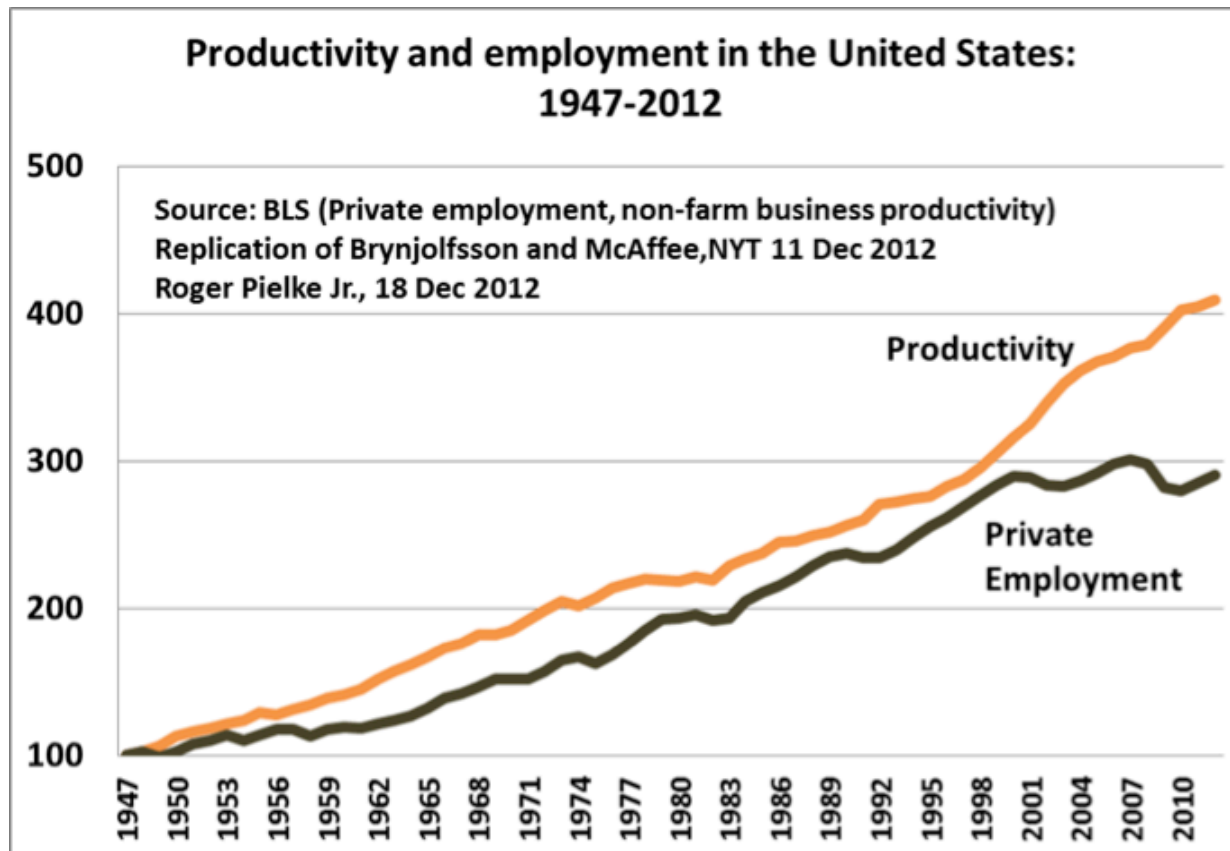
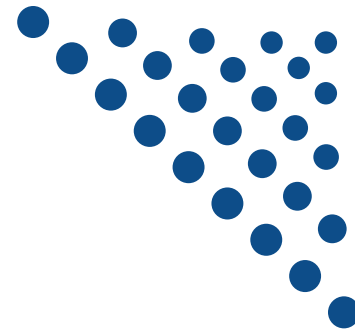
- **Beginning in about 1970, the immigrant share of the U.S. Population increased dramatically.**
 - 5% in 1970 and 14% in 2016
- **Immigration tends to happen most often among:**
 - Low-skilled low-wage workers
 - High-skilled high-wage workers
- **Immigration has likely increased income inequality.**
- **Its effect has likely been small.**
 - ~5% between 1980 and 2000
 - No reason to think it has been bigger since

Technological Change and Inequality

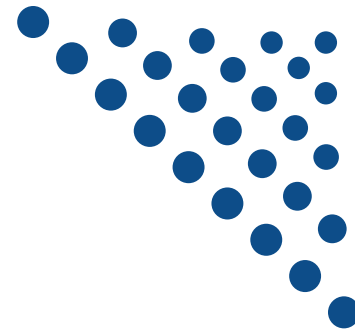


- **Much of the technology adopted in the last 30 years has eliminated low-skill or low-wage jobs.**
 - Computers, advanced manufacturing equipment, steel mini-mills, automation
- **There is a “winner take all” aspect of the technology-driven economy.**
 - This likely favors a small group of individuals.
- **Both aspects increase inequality by increasing the rewards to:**
 - Those with significant labor market skills.
 - Owners over workers

Technology Benefits Ownership over Labor



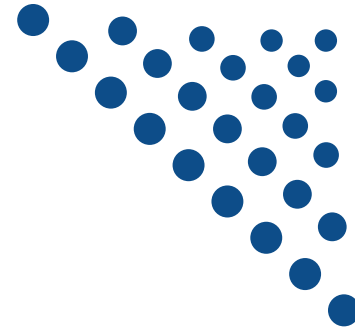
Technology can Hurt Low Income Workers



Early on, technology was good to low income workers



Until it was bad for them....



A Modern Example: Uber & Lyft

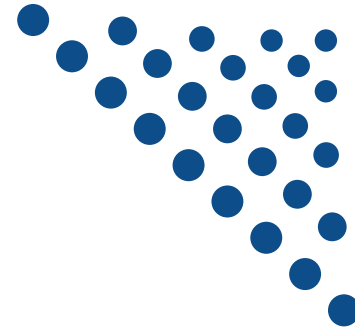
- **Technology:**

- Facilitates market power for owners.
- Reduces bargaining power for labor.
- Shifts costs of doing business onto labor.

- **Modern day Robber Barons?**

- Ruthlessly absorbing as much income as they can.
- Lack of regard for labor.

Globalization



- **What is globalization?**

- Flow of goods, services, capital, and labor across international borders

- **How does it affect inequality?**

- Through a differential impact on low-skilled workers and hence their wages
- For the United States, globalization is thought to lower the wages of low skilled and hence low-wage workers relative to those of high-skilled workers

Mechanisms for the Effects of Globalization



- **Merchandise trade**

- Importing goods that are made with low-skilled workers and exporting goods that are made with high-skilled workers
 - Lowers the wages of unskilled relative to skilled
 - making the distribution of income **less equal**

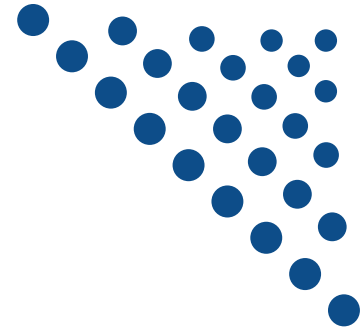
- **Outsourcing**

- Similar channel as with merchandise trade

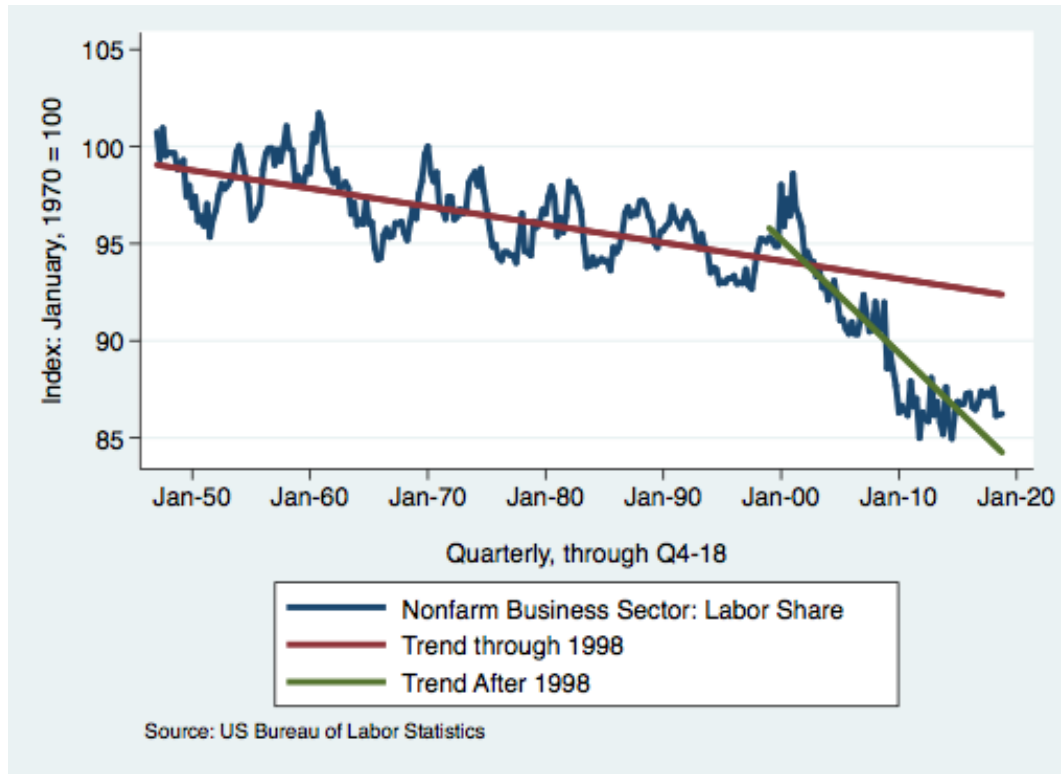
- **Trade in services**

- US imports of middle-skill services: business and some professional services

- **Intuitively: The same as if we were to move the actual workers.**



Effects of the Unhinging?



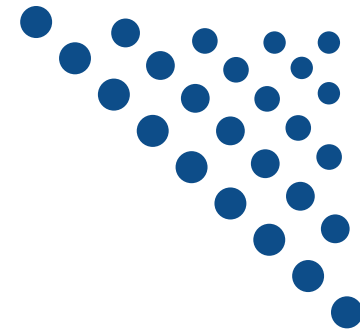
Labor's Share of Income

1960: 66%

2011: 56%

2016: 58%

Why Does Inequality Matter?



- **Too little inequality can:**

- Reduce individual motivation
- Slow economic growth

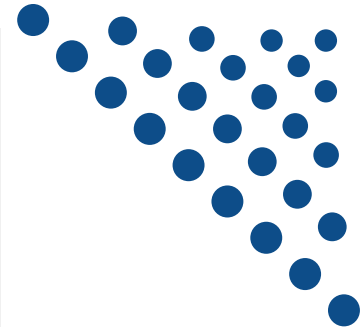
- **Too much inequality can:**

- Reduce individual motivation
- Slow economic growth

- **Too much inequality may also:**

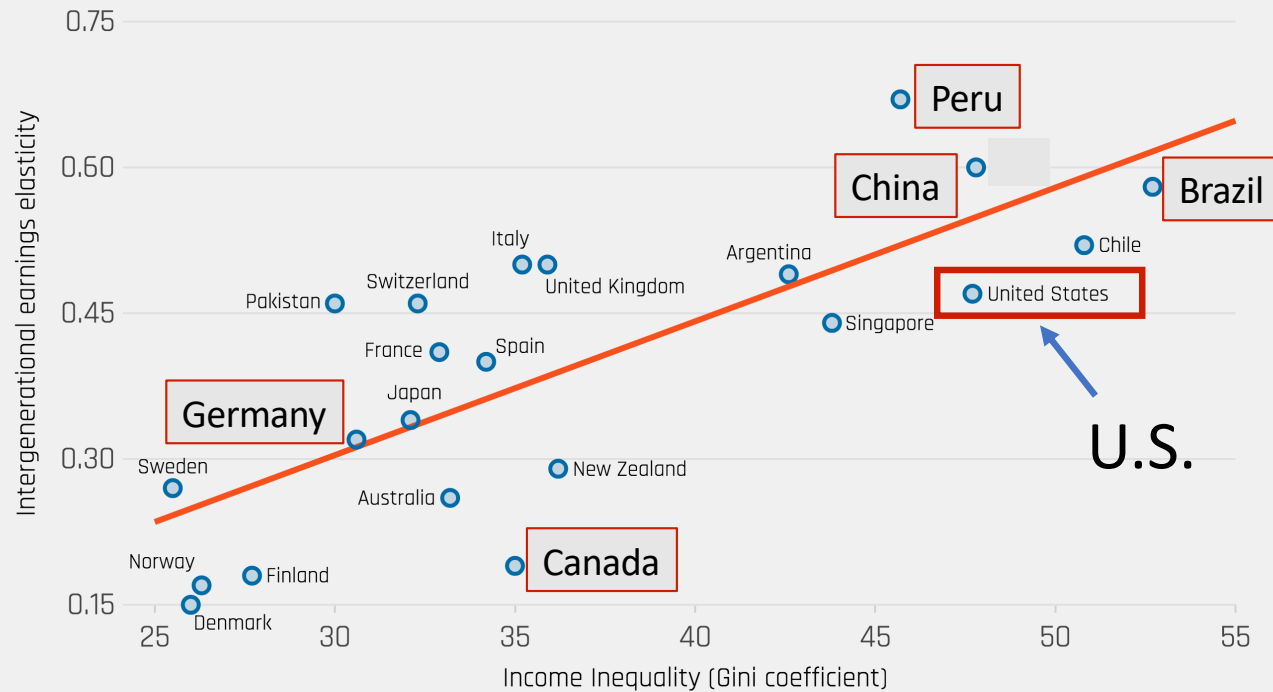
- Divide society
- Distort political environment
- Reduce political participation
- Reduce investments in public goods
 - Education
 - Environmental protections





The Great Gatsby Curve: high inequality tends to mean low mobility

More inequality is associated with less mobility across generations



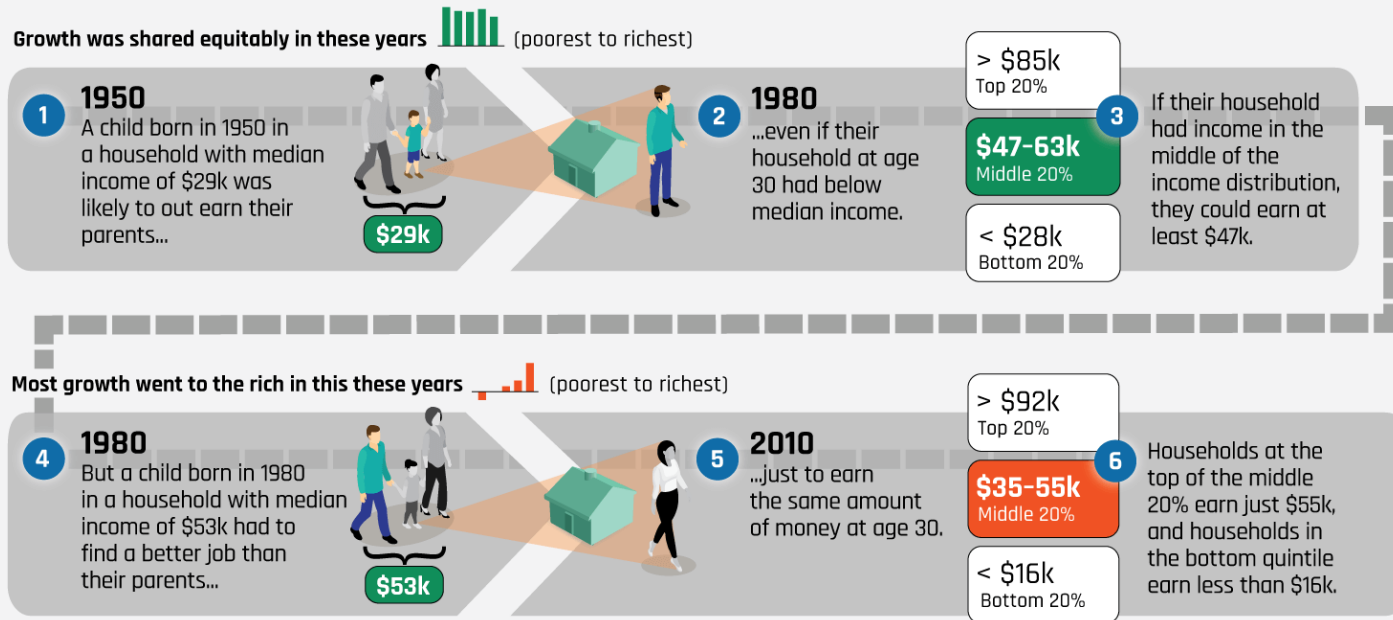
Source: Miles Corak, "Income Inequality, Equality of Opportunity, and Intergenerational Mobility," Journal of Economic Perspectives 27 [3]: 79-102; "All the Ginis," available at <http://www.worldbank.org/en/research/brief/all-the-ginis> [last accessed 9/28/2018]





A pattern of unequal growth has made it more common for children to earn less than their parents

Research shows that a child born in 1950 in the United States has about an 80% chance of having higher household income than their parents at age 30. A child born in 1980 has just a 50% chance.

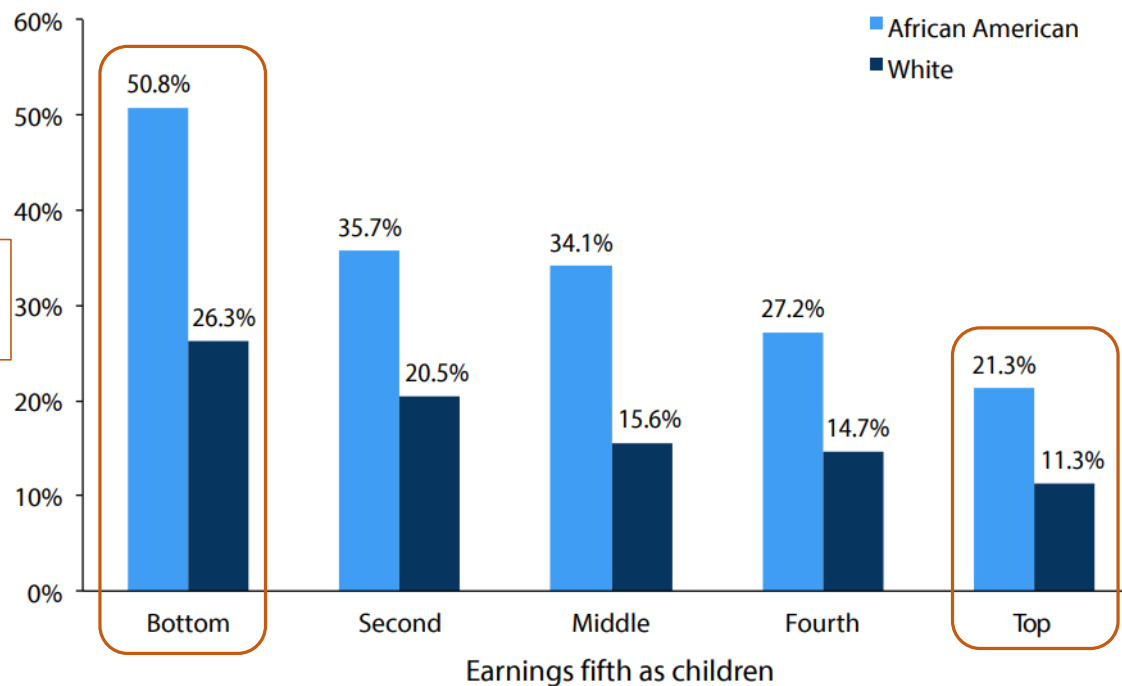


Notes: Incomes shown are for households. Growth as shown in the bar charts is National Income Growth from Thomas Piketty, Emmanuel Saez, and Gabriel Zucman's Distributional National Accounts dataset. Growth in the first period is 1962-1980 because by quintile growth does not extend back to 1950.
 Source: Chetty, Raj, and others. 2017. "The Fading American Dream: Trends in Absolute Income Mobility since 1940." *Science* 356 [6336]: 398-406. Thomas Piketty, Emmanuel Saez, and Gabriel Zucman, "Distributional National Accounts: Methods and Estimates for the United States," *The Quarterly Journal of Economics* 133, no. 2 (May 1, w018): 553-609



U.S. – Racial Differences

Figure 3L Share of children from various earnings fifths ending up in the bottom fifth as adults, by race

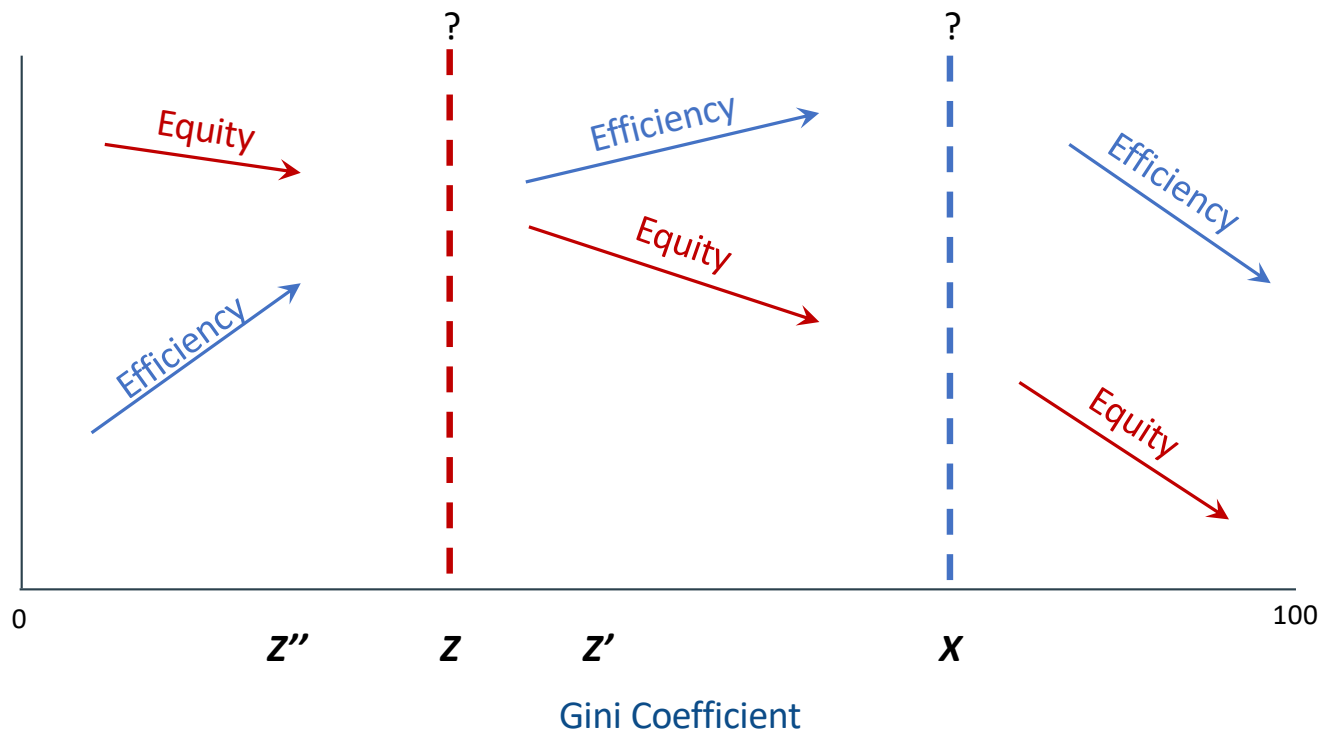
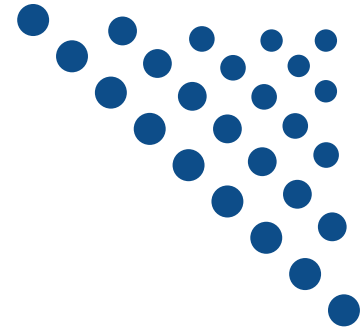


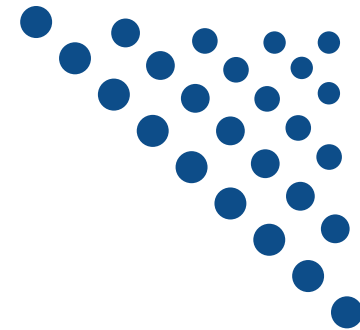
Odds of *staying* poor, if born poor

Odds of *becoming* poor, if born rich

Source: Authors' analysis of Mazumder (2011, Table 7)

How Much Inequality Is too Much?





Addressing Inequality: Is It A Problem?

- **Why it might be a problem.**

- Economic issues (*Efficiency*)

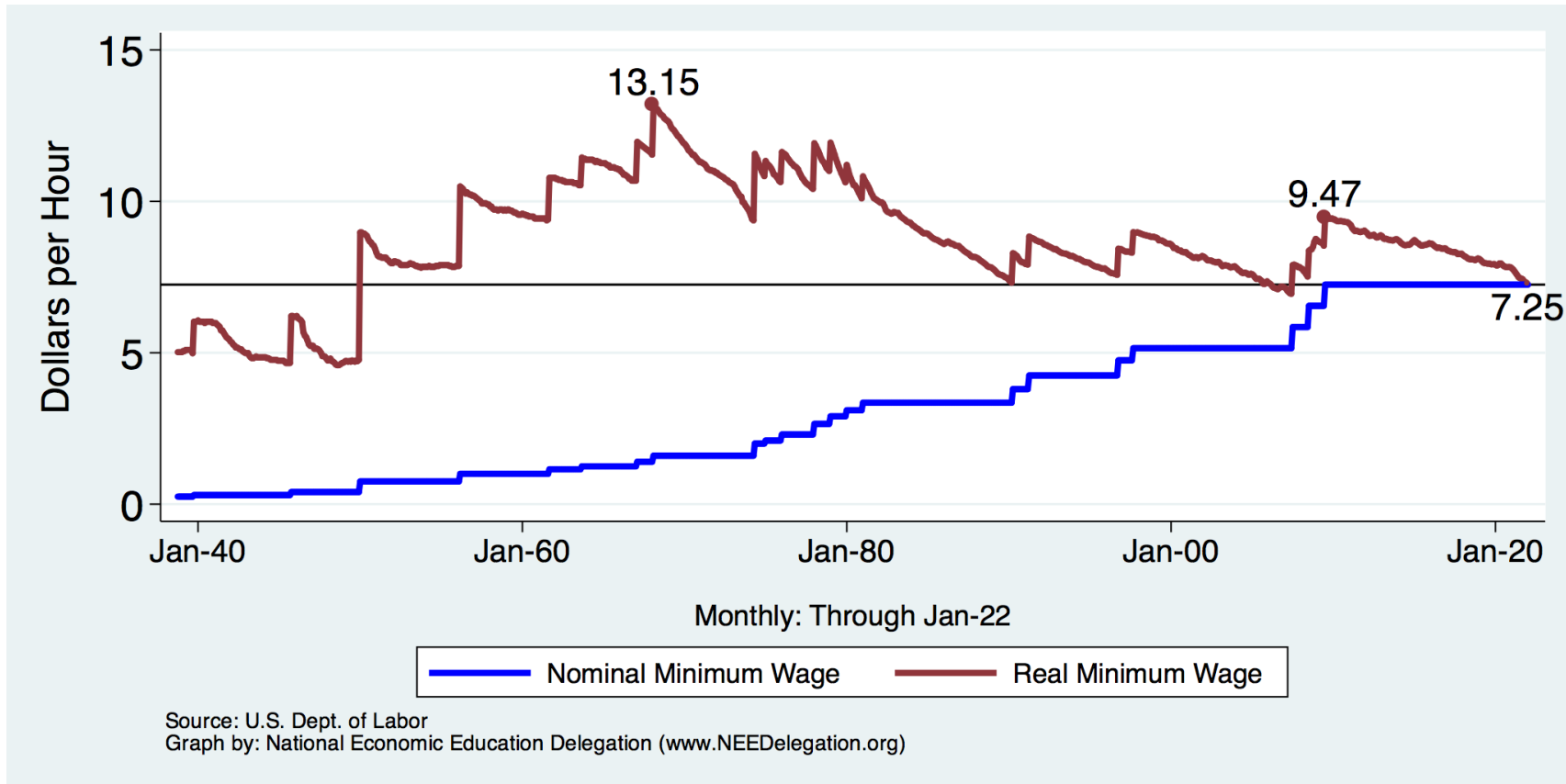
- There is evidence that at some level, increased inequality slows economic growth.
- Or, inequality concentrates resources among investors.

- Noneconomic issues (*Equity*)

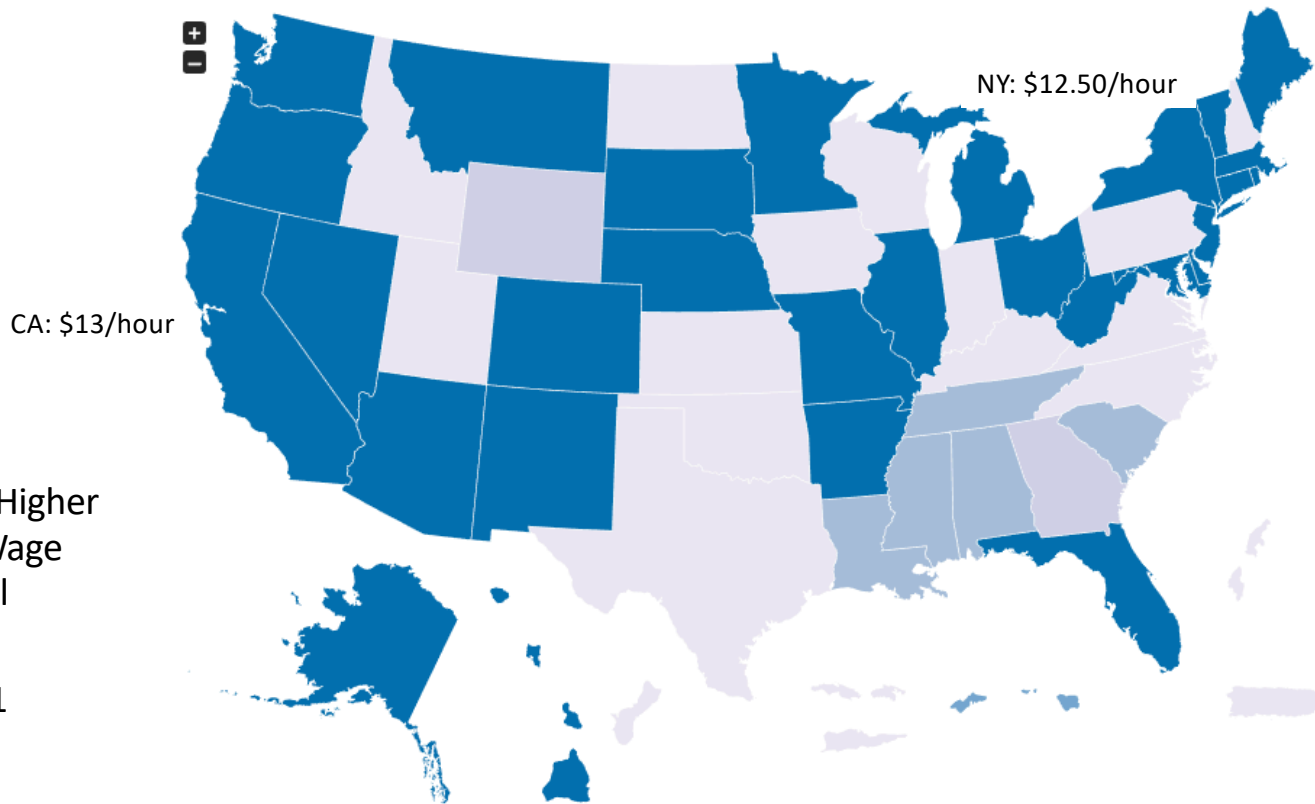
- Values, ethics and morals will drive individual evaluations of the level of inequality.
 - E.g., inequality is primarily a function of market outcomes, so should be left alone.
 - Or, a solid middle class is important for maintaining a civil society, which runs contrary to a high degree of inequality.


- **Suppose you think it's a problem. How might it be addressed?**

Historical Values of Minimum Wages



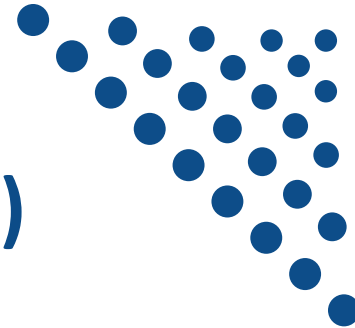
Many States Have A Higher Min Wage



 States with Higher Minimum Wage than Federal

As of Jan 1, 2021

Addressing Inequality: Immediately Available Policy Solutions (2/2)



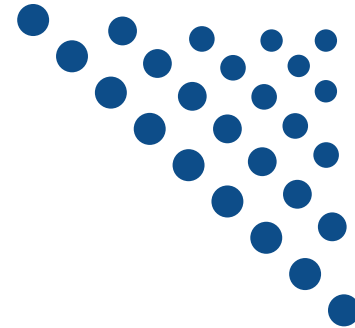
- **Other**

- Reverse trends in market power

- **Locally**

- Employment services: job training, interview skills, or assistance with day-to-day issues, such as child care
- Cognizance of the potential for technologies to affect worker/employer power dynamics
 - Uber, Lyft, etc.

Addressing Inequality: Long Term



- **It's all about access to resources:**

- Education, in particular
 - Improve public education
 - Reduce disparities in quality of public education
 - Improve counseling in low-income schools
 - With respect to college – paths to success and funding
 - Investments are needed in early education, not later (e.g. universal pre-k)
- Opportunities for wealth-building
- Housing

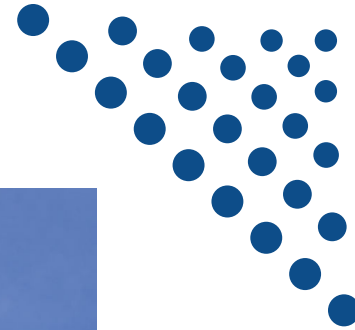
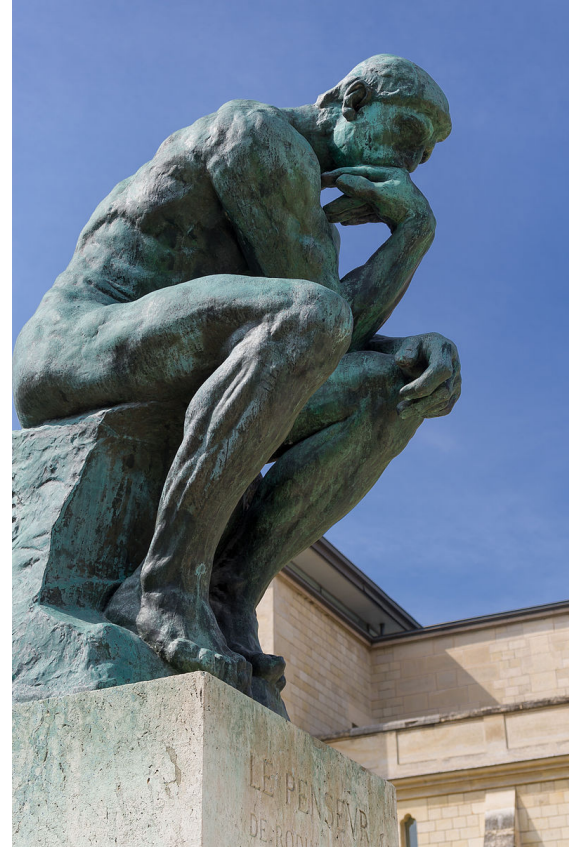
- **Initiatives whose impacts cross neighborhood and class lines and increase upward mobility specifically for black men**

- Mentoring programs for black boys, efforts to reduce racial bias among whites, interventions to reduce discrimination in criminal justice, and efforts to facilitate greater interaction across racial groups.

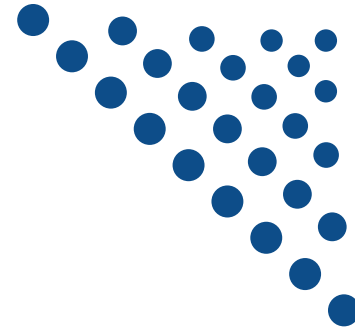


What to do About Inequality?

- Nothing?
- Redistribution?
- PRE-distribution?
- Access to resources?



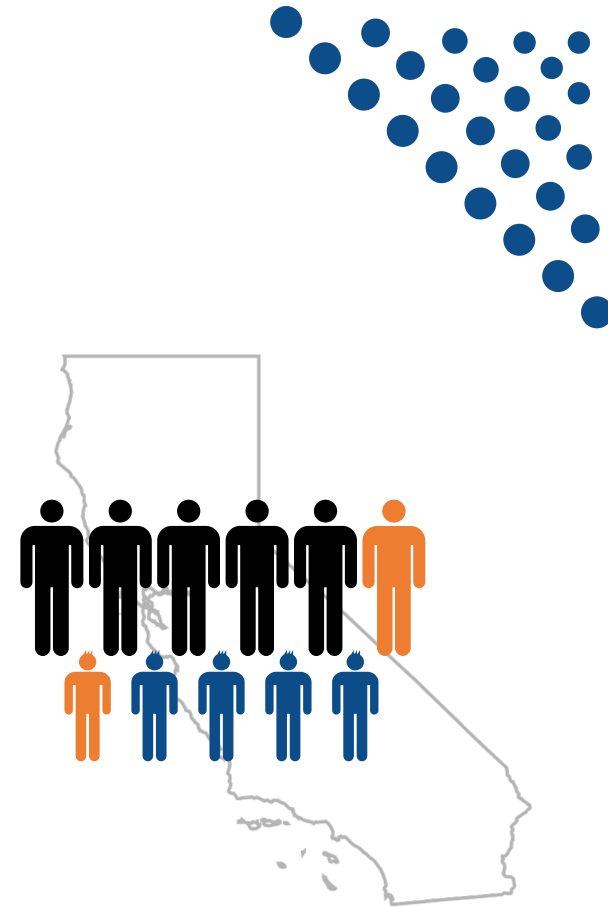
Tension in Policy Solutions



- **Is it possible to increase growth at the same time that you reduce income inequality?**
 - Common refrain among some that government intervention in the economy is always and everywhere bad for growth.
- **Possibly: expanding equality of access promotes the full utilization of resources.**
 - Expanding equality of access requires resources likely from the well-to-do.

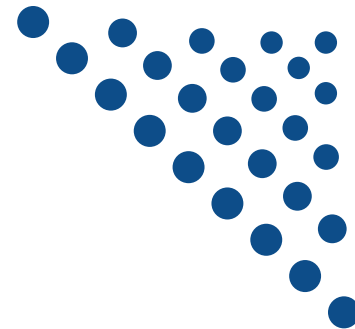
Summary

- **Income inequality is clearly increasing.**
 - The economy is clearly favoring owners of productive resources over labor.
- **The causes appear to be largely driven by:**
 - The market – technology, competition, and trade
 - Changing institutions.
- **Open questions are:**
 - To act or not to act?
 - If so, how?
- **The level of inequality is a policy choice.**



Thank you!

Any Questions?



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