# OUTLINE — September 27, 2017

- Definitions of Wealth & Income
- Perfect Competition & Implications for Income
- Distribution of Income
- Explaining Income Distribution
- Plus slides we won't get to re: Wealth Distribution

Midterm 1 is tonight
Today's material will be on MT 2

Definitions of Wealth & Income			
Wealth (or, Net = Assets – Liabi		Income	
Wealth v. Income	Perfect Competition	Income Distribution	Explanations

# Perfect Competition & Income

- In long run competitive equilibrium, profit = 0
  - Accounting profit = opportunity cost of labor & money
- Worker income depends upon "marginal revenue product" (MRP)
  - MRP = increase in total revenue from hiring 1 more worker
    - Depends upon [1] marginal product and [2] price of output
  - Assumes perfect competition in market for labor
    - · Lots of workers, all exactly the same,
    - · Lots of employers, none with large share of market
    - · No barriers to entry or exit

Wealth v. Income Perfect Competition Income Distribution Explanations

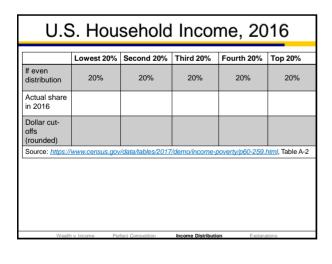
## **Policy Implications**

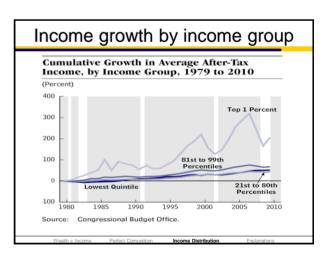
- If assumptions of perfect competition satisfied. . .
  - Resulting distribution of income reflects
    - · Worker skills & talents
    - Output price
  - Policy implication: do nothing
- But are the assumptions of perfect competition applicable to markets for labor?
  - Lawyers?
  - CEOs?
  - Professors?

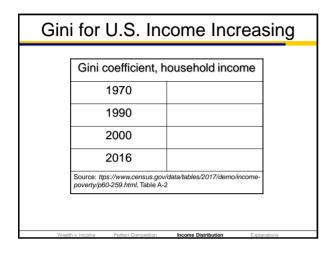
Wealth v. Income Perfect Compatition Income Distribution Evaluation

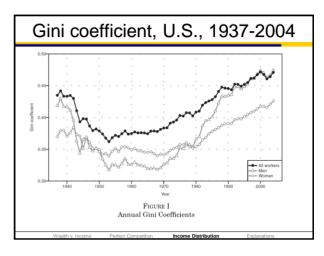
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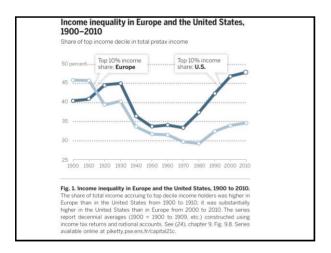
# CEO to worker pay http://www.epi.org/publication/ceo-pay-continues-to-rise/ and show video which is at https://youtu.be/zbH66IGRfil

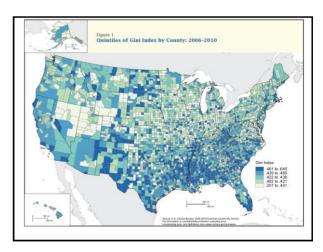


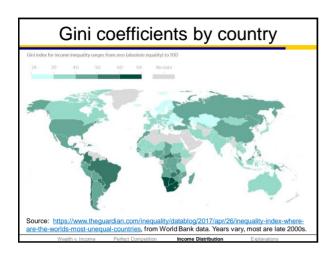


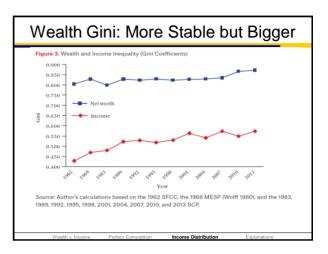


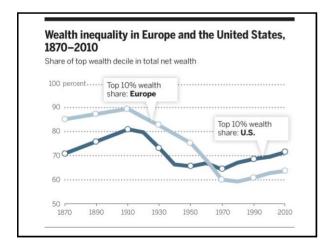


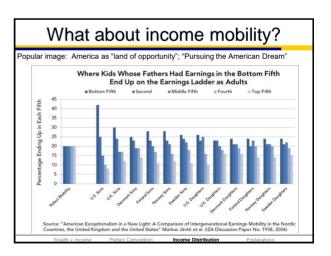


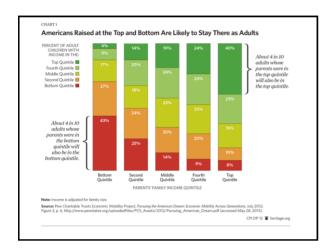


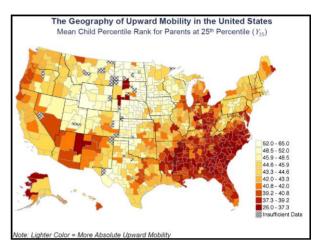


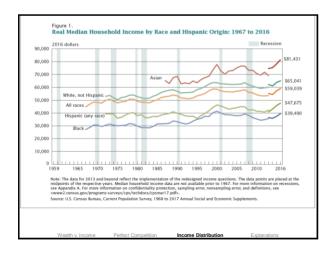


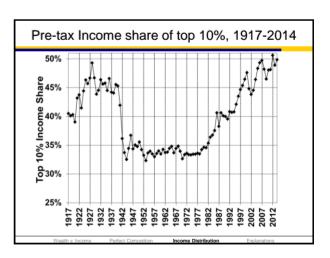


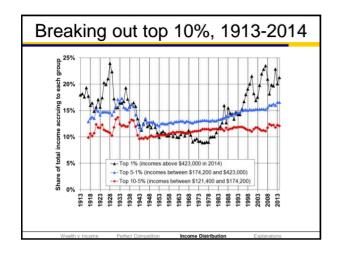












## Who are the top 1%

- Study based on 1979-2005 tax returns
  - Non-financial execs, managers, supervisors
  - Medical professionals
  - Financial professionals
  - Lawyers

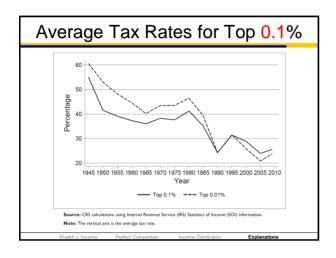
Wealth v. Income Perfect Competition Income Distribution Evaluation

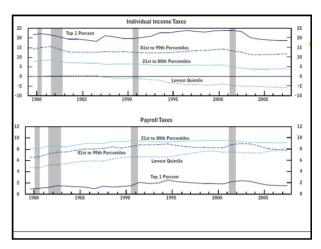
# Why the rise in income for top 1%

- Increased labor income
  - "Superstars" reach wider audiences due to technological changes in mass media
  - · Recent paper (see tweet from me): IT explains a lot
  - Very large pay increases for CEOs
  - In finance, deregulation and compensation for IPO risk

## Why the rise in income for top 1%

- Increased labor income
- Changes in government taxes and transfers
  - Overall, taxes and transfers lower Gini coefficient
  - But today, less equalizing than 30 years ago
    - Transfers through Medicare (health care, age 65+) benefit all
    - Less generous transfers to low-income households
    - · Taxes have become less progressive
      - Shift from income to payroll taxes





#### Does cutting top-tier taxes spur growth?

- Apparently not
- Reduction in top tier tax rates
  - Little effect on saving, investment, or productivity growth
  - Does increase income inequality
    - Source: Congressional Research Service, report 9/14/12
- Cutting taxes
  - Lower 90% will increase spending → creates jobs
  - Top 10% *shift* spending, don't *increase* spending → no net job creation
    - Source: Owen Zidar (UC Berkeley Ph.D., Chicago Business School faculty)

Wealth v. Income Perfect Competition Income Distribution Explanations

#### Does distribution matter?

- Are there effects of an uneven distribution of income?
- Perhaps . . . But it's a new area of research
  - Income mobility easier when more even income distribution
  - Distribution of fiscal stimulus may matter
    - How much of a tax cut do people spend?
  - Political implications (beyond Econ 1 scope)
    - · How well democracy functions
    - Ease of implementing change desired by (lower income) majority?
  - Sociological implications (also beyond our scope)
    - How well do groups interact when there are big disparities?

#### **Redistribution Debate**

- How evaluate arguments?
- Depends on
  - your goals
  - assumptions about source of differences

Distribution of Wealth in the U.S.

Divide population into three groups:

Bottom 80 percent
Poorest
Richest

Next
19%
Richest
Richest

Next
19%
Richest
Richest

# Distribution of Wealth in the U.S.

- What <u>share</u> of total wealth was owned by each of the three groups in 2013?
  - Top 1% own 37% of total wealth
  - Next 19% own 52% of total wealth
  - Bottom 80% own 11% of total wealth
- How much wealth did they have?
  - Mean \$ amount
    - Families in top 1% have \$18.6 million of total wealth
    - Families in next 4% have \$3.6 million of total wealth
    - Families in bottom 40% have negative net worth ( \$11,000)

# **Explaining Distribution of Wealth**

- Area of ongoing research
- Distribution reflects
  - [1] Additions to wealth (saving out of income)
    - The higher a family's income, the more likely they are to save
  - [2] Rate of return on wealth
    - The higher a family's wealth, the higher their average rate of return

Wealth v. Income Perfect Competition Income Distribution Explanation

# Sources

- <u>https://www.census.gov/data/tables/2017/demo/income-poverty/p60-259.html</u> for Income cutoffs, Gini coefficient
- http://www.cbo.gov/sites/default/files/44604-AverageTaxRates.pdf, for income growth by class
- http://www.epi.org/publication/ceo-pay-continues-to-rise/ for CEO:worker ratio
- Source: "EARNINGS INEQUALITY AND MOBILITY IN THE UNITED STATES: EVIDENCE FROM SOCIAL SECURITY DATA SINCE 1937," by Wojciech Kopczuk, Emmanuel Saez, Jae Song, QJE February 2010 for Gini 1937-2004
- http://www.cbo.gov/sites/default/files/44604-AverageTaxRates.pdf for income growth by income group
- http://www.census.gov/hhes/www/income/data/historical/index.html for Gini Coefficient 1950-2014
- <u>"Inequality in the Long-Run" by Emmanuel Saez & Thomas Piketty, Science 344, 2014, 838-843</u> for comparisons US & Europe
- http://www.census.gov/prod/2012pubs/acsbr10-18.pdf for Gini coefficients by US county
- http://en.wikipedia.org/wiki/List\_of\_countries\_by\_income\_equality
   for Gini coefficients by country
- http://www.brookings.edu/research/articles/2011/11/09-economic-mobility-winship for mobility graph #1
- http://www.heritage.org/research/reports/2013/07/a-guide-to-understanding-international-comparisons-ofeconomic-mobility for mobility graph #2
- "Where is the Land of Opportunity? The Geography of Intergenerational Mobility in the United States" with Raj Chetty, Nathan Hendren, and Patrick Kline, NBER Working Paper No. 19843, revised June 2014 forthcoming Quarterly Journal of Economics (Slides) (Website and Data) (Summary) (from Emmanuel Saez's website)

# Sources, continued

- "Income Inequality in the United States, 1913-1998" with Thomas Piketty, Quarterly Journal of Economics, 118(1), 2003, 1-39 (Longer updated version published in A.B. Atkinson and T. Piketty eds., Oxford University Press, 2007) (Tables and Figures Updated to 2014 in Excel format, June 2015) figure 1, from Emmanuel Saez's website <a href="http://eml.berkeley.edu/~saez/">http://eml.berkeley.edu/~saez/</a> for top income shares
- http://www.cbo.gov/sites/default/files/cbofiles/attachments/10-25-HouseholdIncome.pdf, pg 18-on, re why the rise in top incomes
- <a href="http://graphics8.nytimes.com/news/business/0915taxesandeconomy.pdf">http://graphics8.nytimes.com/news/business/0915taxesandeconomy.pdf</a> for average top 1% tax rates

Wealth v. Income