Econ 113: April 9, 2015

- Post-World War II Macro, continued
- 20th/21st Century Inequality Patterns
- Activity: Connecting Inequality & Macro
- Rise of Services
 - Macroeconomic Effect

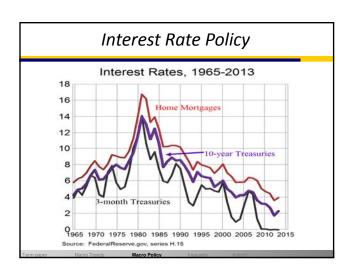
Term Paper due Thursday April 16 Last Class is Thursday April 30

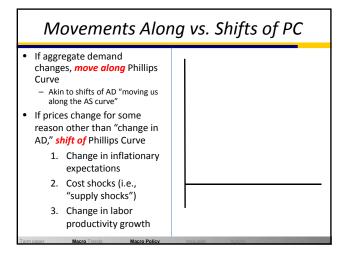
Leftovers/additions from Tuesday

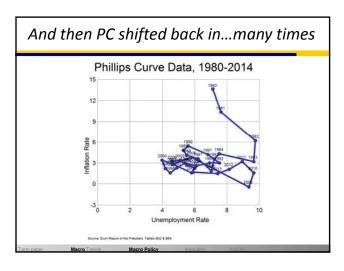
- Fed's dual mandate (unemployment, too) added in 1978 Humphrey-Hawkins Bill
 - Be sure to read NYTimes article I tweeted out Wednesday http://nyti.ms/1O2w1zC
- AS curve gave us "supply-side" policies
 - We understand that phrase differently today than in 1980
- Reasons the Phillips Curve shifts were figured out after it shifted for each of those reasons, not before

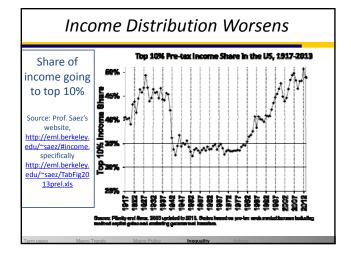
Policy Summary

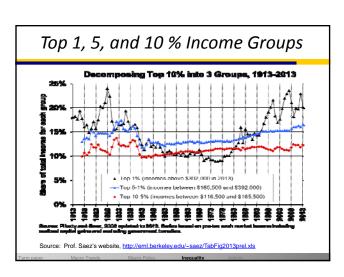
- 1950s & 1960s: "fine tune" the economy, mostly fiscal policy options
 - Remember Treasury-Fed Accord through 1951
- 1970s: "oh c**p" experiences
 - Vietnam War, higher inflationary expectations, OPEC oil crisis
- 1980s: Rhetoric didn't match policy; policy worked
 - Rhetoric "supply-side"; Policy "raise interest rates" to lower AD
 - Theorists "let's assume always at full employment"
- 1990s: Divergence of theory & policy
 - The Great Moderation, a whole lot of luck
- 2000s: And then it all came crashing down. . .

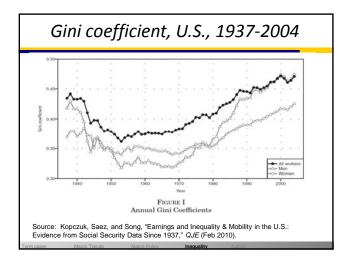


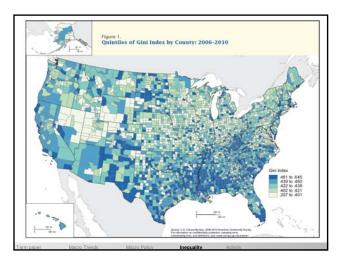


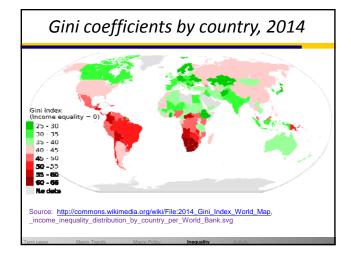












Who are the top 1%

- 1920s, top 1% were wealthy class, (capital income)
- 2000s, top 1% are very highly paid (labor income)
 - Not due to aggregate change in lister income tatal income
- In a study based on 1979-2005 tax returns, top 1% are...
 - Non-financial execs, managers, supervisors
 - Medical professionals
 - Financial professionals
 - Lawyers
 - Source: http://www.cho.gov/sites/default/files/10-25-Householdincome O.pdf; see also https://www.cho.gov/sites/default/files/12-23-effective/armites_letter.ndf

rm paper Macro Trends Macro Policy Inequality

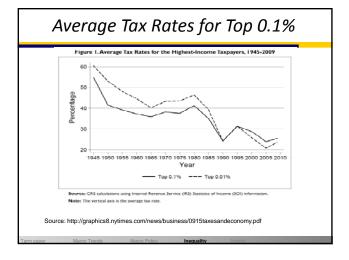
Why the rise in income for top 1%

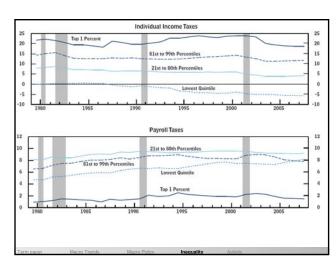
- Increased labor income
 - "Superstars" reach wider audiences due to technological changes in mass media
 - Very large pay increases for CEOs
 - Exercised stock options counts as "labor" income
 - In finance, deregulation and compensation for IPO risk

Why the rise in income for top 1%

Increased labor income

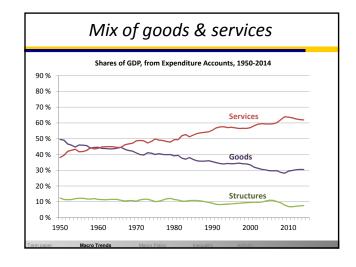
- Changes in government taxes and transfers
 - Overall, taxes and transfers lower Gini coefficient
 - But today, less equalizing than 30 years ago
 - Transfers through Medicare (health care, age 65+) benefit all
 - Less generous transfers to low-income households
 - Taxes have become less progressive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

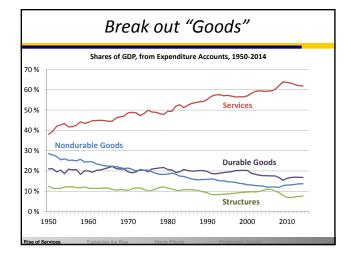


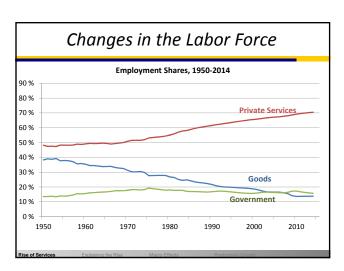


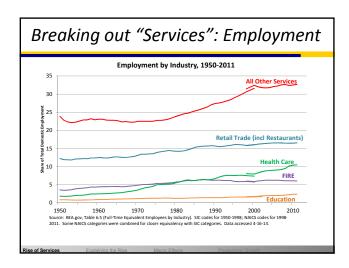
Activity: Connecting Inequality & Macro

- 1930s and 2000s, high Gini coefficient
- 1950s 1970s and early 1980s, low(er) Gini coefficient Discussion questions
- 1. (Think theory): what are ways that including inequality might change our macro models?
- (Think history <u>and</u> theory): what are ways that including inequality might change our explanations of past recessions and/or recoveries?
 - a) Be sure you remember that Gini was low in 1950s 1970s



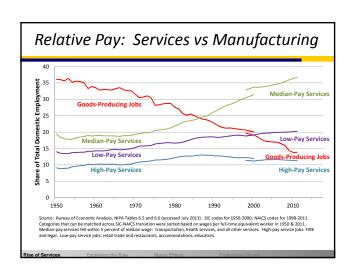


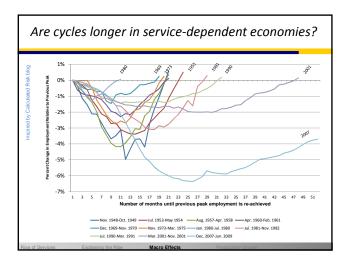


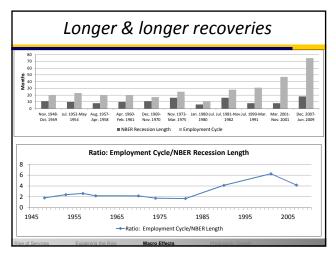


Why the rise of services? (Rowthorn & Ramaswamy: covered in section) Internal explanations **External explanations** 1. Productivity growth 3. Trade patterns (key: faster for manufacturing southern=developing northern=developed) than services Cheap (southern Even if no change in hemisphere) labor used to demand, would see shifts produce goods in employment Imports substituted for 2. Income elasticity of domestic goods manufactures in northern demand greater for services than goods countries Result: decreased D for manufacturing labor (esp low-skill jobs) in north Thus, northern hemisphere **labor** shifts to producing services

Changes in industries providing inputs Contributions to Output of Goods and of Services, Benchmark years, 1947 - 2007 Output of Goods Output of Services % of inputs that are % of inputs that are Ag & Value Ag & Value Mining Added Mining Added 13.6 36.2 11.0 36.3 12.2 1967 38.3 23.0 33.7 1987 6.5 17.3 42.0 0.9 8.5 24.6 65.5 1992 34.2 35.5 19.4 39.9 23.2 24.0 1997 6.0 34.1 0.7 6.1 25.8 67.0 33.1 22.0 38.4 20.7 35.9 2007 33.5 0.8







What might connect these two patterns?

- Recovery requires increased production of output
 - Output = Domestic Sales of goods & of services, Foreign Sales of goods & of services, and changes in goods inventory
- Anticipations channel
 - Goods can be produced in anticipation of ↑demand
 - Supply creates its own demand . . .
 - Goods-producers anticipate ↑demand, produce for inventory, pay workers, who ↑demand
 - A recovery takes hold and builds upon itself
 - Services can not be produced ahead of demand
 - Service-providers must wait for actual $\ensuremath{\uparrow}\xspace$ demand. Wait. Wait. Wait.

ise of Services Explaining the Rise Macro Effects

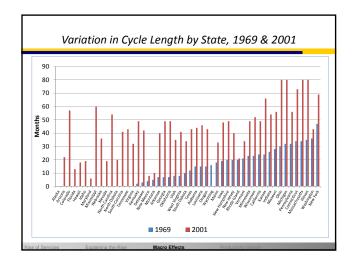
Connections, continued

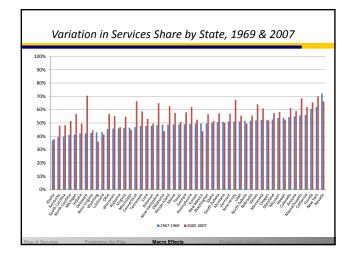
- Exports channel
 - Goods can be exported; most services cannot be exported
 - Exceptions: tourism, and international finance
 - Demand for tradables can spur economic recovery
 - As economy produces more services, tradables are smaller share
 Reducing role for external demand
- Upshot: Recoveries will be slower to take hold in more service-dependent economies

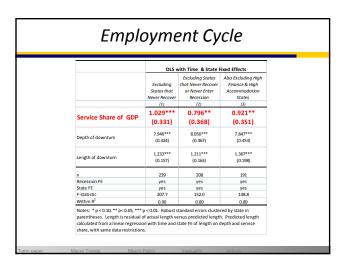
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Empirical Strategy

- Is cycle length dependent on the share of services?
- Panel of U.S. states for 5 recessions, 1969 2001
- Dependent variable: # months employment peak-to-peak
 - Key independent variable: Services/GDP, 3-yr average of (t, t-1, t-2)
 - Control for length & depth of downturn
 - Include state and year fixed effects (FE)







Counterfactual Exercise

- How much longer is the recovery from 2007-2009 due simply to the rise of services over the past half century?
 - Predict cycle length using actual % services and actual depth for 2007-2009
 - Counterfactual: predict cycle length using % services from 1955-57 and actual depth for 2007-2009
 - Compute difference
- Result: Recovery from 2007-2009 downturn was about 50% longer than it would have been had downturn been in 1955