Economic Development

Economic Inequality and Polarisation

October 2010

Mid-term Test

November 2, 2010

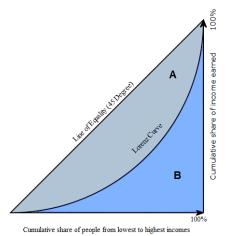
Economic inequality

Definition

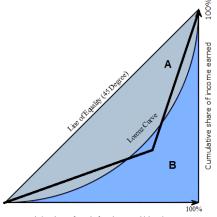
A situation in which there is no equality or fair treatment in the sharing of wealth or opportunities between different groups in society.

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Lorenz Curve and Gini coefficient A/(A+B)

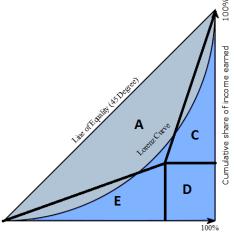


Lorenz Curve and Gini coefficient A/(A+B)

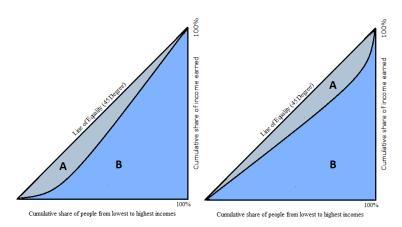


Lorenz Curve and Gini coefficient

1 - (C+D+E)/(A+C+D+E)



Defficiencies of Gini coefficient A/(A+B)



Alternative Measurements of Inequality

Richest-to-poorest-quintile Ratio

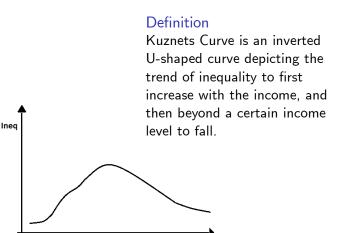
$$RtP_{20\%} = \frac{I_{80-100}}{I_{0-20}}$$

Population	income	
20%	1%	
20%	3%	
20%	5%	
20%	10%	
20%	81%	

Inequality and Poverty

- ▶ Income inequality *vs* consumption inequality
- Inequality and poverty

Kuznets Curve

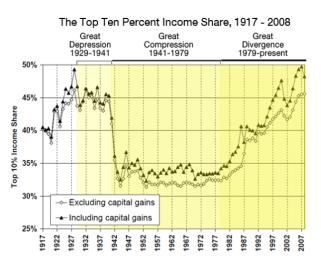


Income

Kuznets Curve and Explanations

- Marx theory and 'inner contradictions' of capitalism
- ► Fields' 'dual economy' and threefold economic growth
 - traditional-sector-enrichment growth
 - modern-sector-enrichment growth
 - modern-sector-enlargement growth

Kuznets Curve and the US



Income is defined as market income (and excludes government transfers). In 2008, top decile includes all families with annual income above \$109,000.

Source: Thomas Piketty and Emmanuel Saez.



Kuznets Curve and Taiwan

	Growth rate	$RtP_{10\%}$	Gini
1953	3.3 % p.a.	30.4	0.558
1964	8.6 % p.a.	8.6	0.328
1972		6.8	0.301

Sources of Inequality

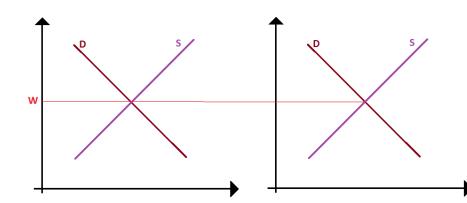
Where does the inequaltiy come from?

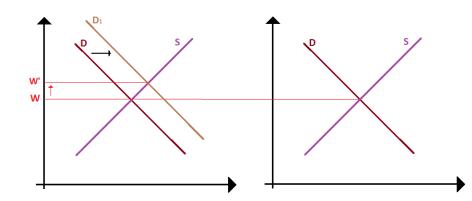
Sources of Inequality

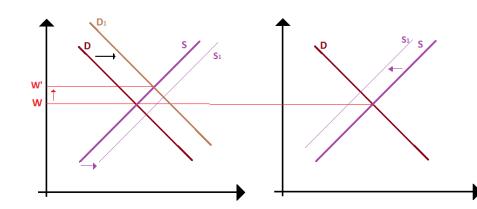
- Differences in abilities
- Cultural and institutional differences
- Solow model
- Neoclassical economics?

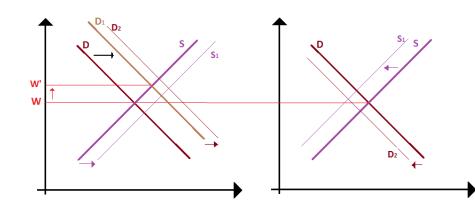
Sources of Inequality: Neoclassical explanations

- Assume 'dualistic economy'
- Initial equilibrium
- Demand shock for labour in one sector









- The shock does (not necessarily) lead to new equilibrium
- Disequilibrium prevails
 - instead of wage equality, further demand shocks

Definition

Myrdal 'backwash' effect - a chain of cummulative expansion in the favoured region.

Sources of Inequality: Myrdal Model for Capital

- People move with capital
- Assume increasing returns
 - small scale industry vs big industrialisation
 - external economy from the other business existence

End of Polarisation

- 'Trickle down'
 - Itself by the economic forces (e.g. diffusion of technology)
 - Government intervenes
- ► Inverted-U shape
 - Centripetal forces (external economies)
 - ► Centrifugal forces (external diseconomies, e.g. congestion)

Centre-Periphery Models

Prebisch model

- Geographical dualism (primary and manufactured commodities)
- difference in product's income elasticity of demand

$$\epsilon_m > 1, \epsilon_p < 1$$

growth in export and import

$$> x_c = m_c, x_p = m_p$$

• growth in production $g_c = g_p (= 3)$

Centre-Periphery Models

Prebisch model

Centre

$$x_c = g_p \cdot \varepsilon_m (= 3 \cdot 1.3 = 3.9)$$

 $m_c = g_c \cdot \varepsilon_p (= 3 \cdot 0.8 = 2.4)$

Periphery

$$x_p = g_c \cdot \varepsilon_p (= 3 \cdot 0.8 = 2.4)$$

 $m_p = g_p \cdot \varepsilon_m (= 3 \cdot 1.3 = 3.9)$

Centre-Periphery Models

Prebisch model

Periphery

$$m_p = g_p \cdot \varepsilon_m$$

 $m_p = x_p$

$$g_p = \frac{x_p}{\varepsilon_m} = \frac{g_c \cdot \varepsilon_p}{\varepsilon_m} \left(= \frac{0.8}{1.3} g_c = 0.62 g_c \right)$$