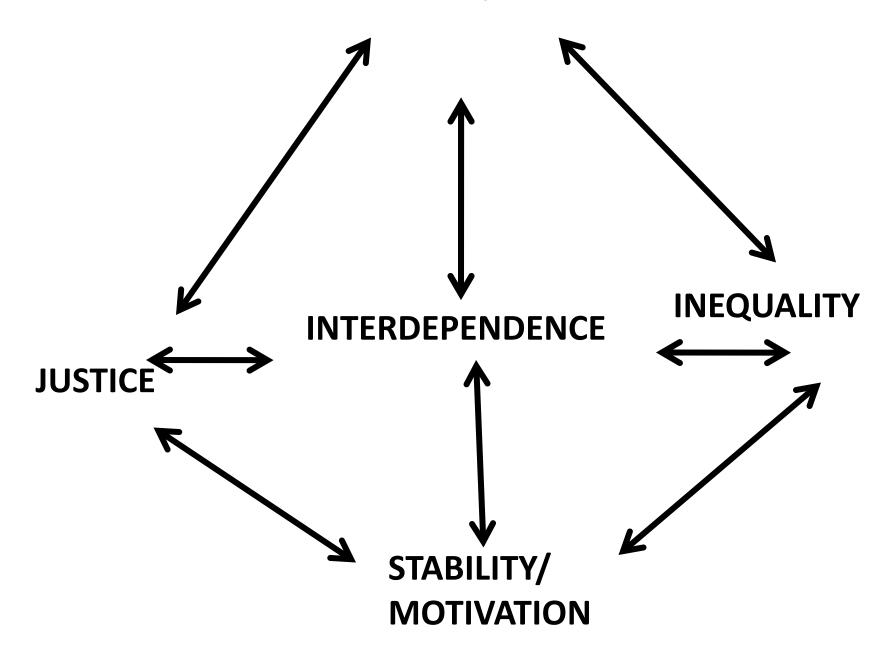
Justice and remuneration in Modern Capitalism

Robin Matthews
RANE
5th October 2014

INCOME/WEALTH

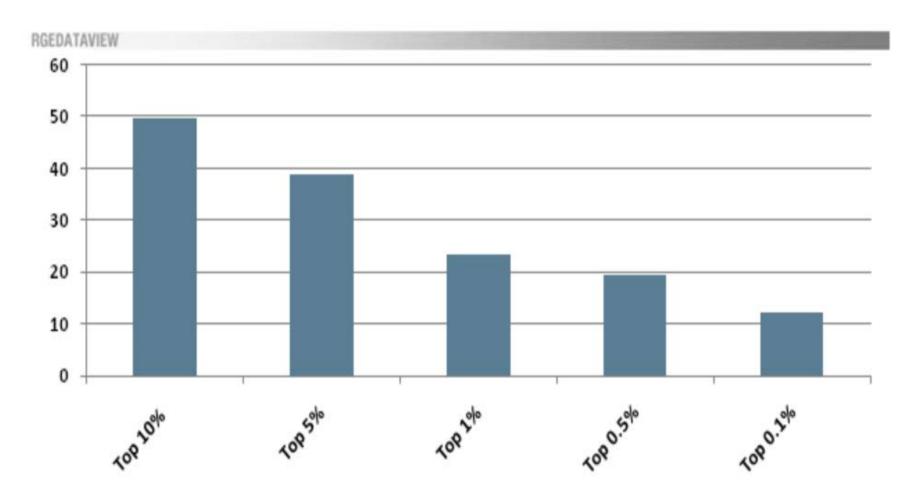


**Estimates NEF and RM

Source: A BIT RICH: New Economics Foundation December 2009

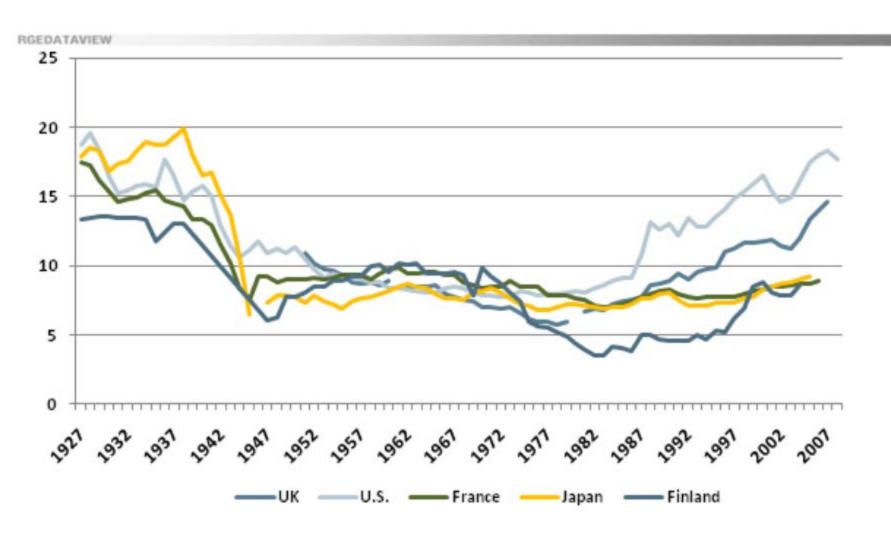
Profession	Social Value Created per £	Salary Range £ thousand*			
City Bankers	·				
•	Minus £7	£(55-10,000)			
Child Care Workers	Plus £(7-9.50)	£(12-16)**			
Adverting	Minus £11	£(50-12,000)			
Executives					
Hospital Cleaners	Plus £10	£(11-14)**			
Tax Accountants	Minus £47	£(75-200)			
Recycling Workers	Plus £12	£(15-20**			

INCOME INEQUALITY IN USA

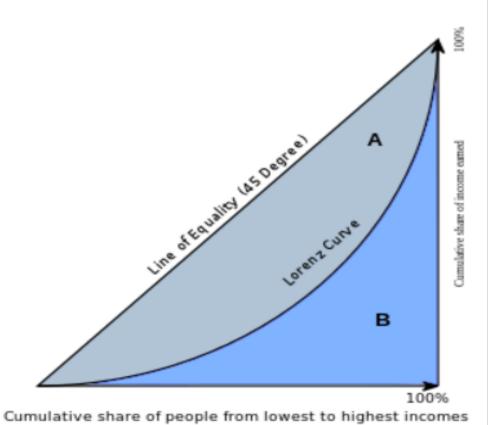


Source: Paris School of Economics and RGE Monitor 2011

TOP 1% SHARE OF INCOME



Source: Paris School of Economics and RGE Monitor 2011

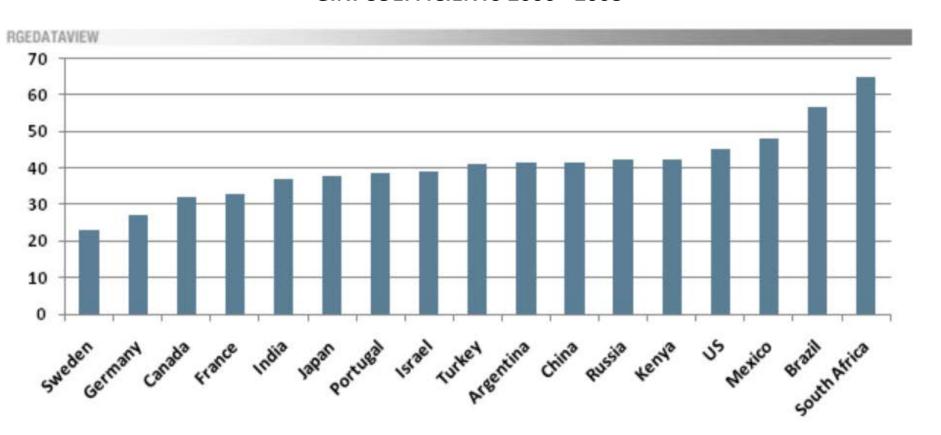


Graphical representation of the Gini coefficient

The graph shows that the Gini coefficient is equal to the area marked A divided by the sum of the areas marked A and B. that is, Gini = A / (A + B). It is also equal to 2*A due to the fact that A + B = 0.5 (since the axes scale from 0 to 1).

Source Wikipedia

GINI COEFFICIENTS 2006 - 2008

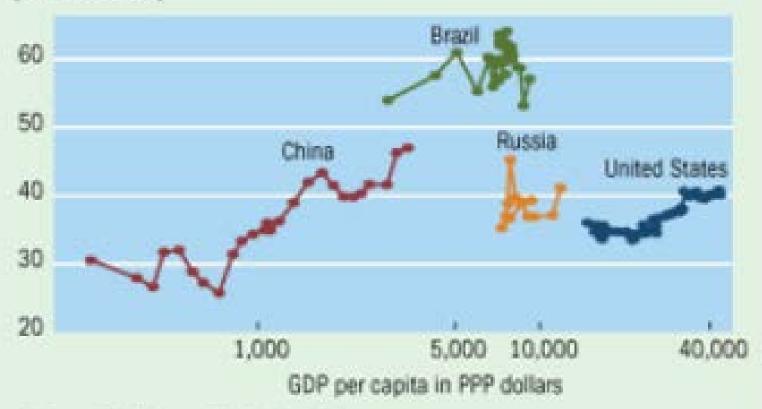


SOURCE: World Bank, CIA RGE monitor

Elusive curves

Inequality has risen in most countries but only Brazil has seen the eventual fall in inequality predicted by the inverted-U-shaped Kuznets curve.

(Gini coefficient)



Source: World Income Distribution database,

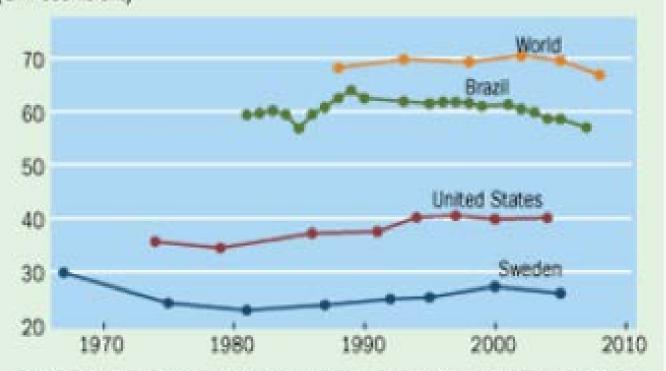
Note: China (1964-2005), United States (1950-2008), Brazil (1960-2007), Russia

(1992-2005).

Chart 1

Worldwide gaps

Global inequality—between world citizens—is higher than inequality within even the most unequal individual countries. (Gini coefficient)



Sources: For United States and Sweden, Luxembourg Income Survey database; for Brazil, Socio-Economic Database for Latin America and the Caribbean (SEDLAC); for the world, Milanovic (forthcoming). The 2008 world Gini is a preliminary estimate.

Note: Gini based on disposable income.

Figure 1

AFTER-TAX RATE OF RETURN VS. GROWTH RATE AT THE WORLD LEVEL, FROM ANTIQUITY UNTIL 2100

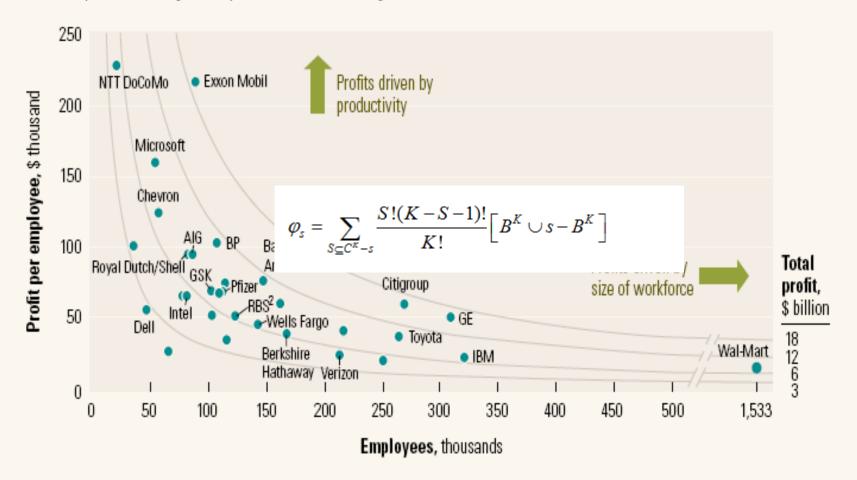


The rate of return to capital (after tax and capital losses) fell below the growth rate during the twentieth century, and may again surpass it in the twenty-first century.

Sources and series: See piketty.pse.ens.fr/capital21c

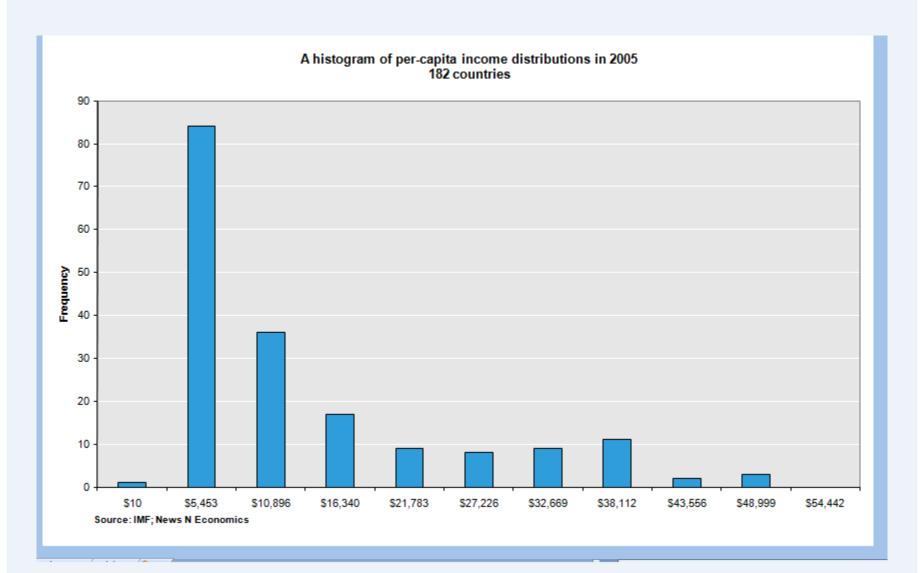
Talent as profit driver

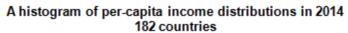
Drivers of profit for 30 largest companies, 2002-04 (average)

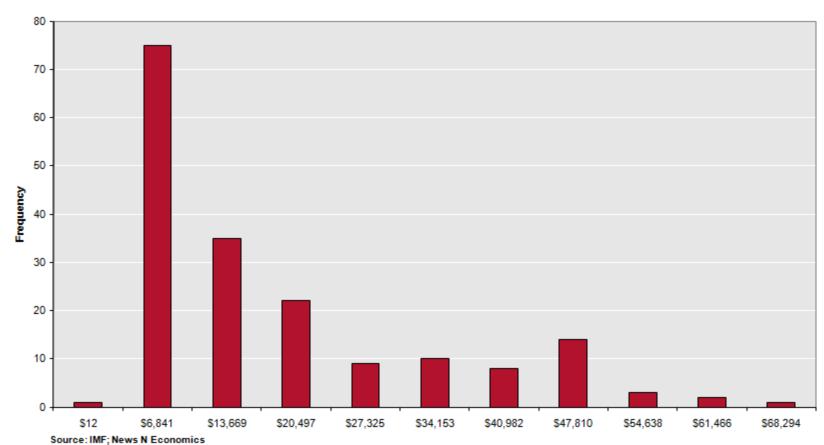


¹US and foreign companies by American depositary receipts, top 30 by market capitalization in 2004; excludes outliers and companies with negative net incomes.

²Royal Bank of Scotland.







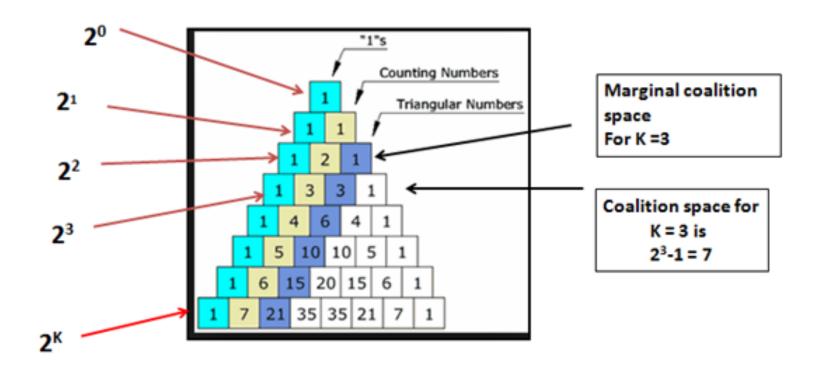
$$\varphi_s = \sum_{S \subseteq C^K - s} \frac{S!(K - S - 1)!}{K!} \left[B^K \cup s - B^K \right]$$

SHAPLEY VALUE

THE MARGINAL CONTRIBUTION TO A COALITION

X

THE
PROBABILITY
OF THAT
COALITION
ARISING



For K activities coalition space is 2^K-1 (null coalition excluded)

Marginal coalition space is 2^{K-1}

ı

Simplistic Organization Matrix

•
$$V(a) + V(b) + V(c) = 15$$

•
$$V(a,b,c) = 45$$

$$\begin{bmatrix} \mathbf{a} & \mathbf{b} & \mathbf{c} \\ \mathbf{1} & & \end{bmatrix}$$

$$\mathbf{b} \begin{bmatrix} \mathbf{5} & \mathbf{9} \end{bmatrix}$$

• a b c
•
$$a = 1 - 2 - 3$$
• $b = 6 - 5 - 4$
• $c = 7 - 8 - 9$

AGGREGATE COALITIONS				MARGINAL COALITIONS			WEIGHT
Members [1]	Size [2] C ^K	Number [3]	Value [4] B ^K	Members [5]	Number [6]	Value [7]	[8]
{abc}	3	1	45	{(a) <u>bc</u> } {(b)ac} {(c)ab}	3	19 25 31	$1/3 = \frac{2!0!}{3!}$
{ab}			14	{(a)b} {(a)c}		9 11	
{ac}	2	3	20	{(b)a} {(b)c}	6	13 17	1/6 - 1!1!
{bc}			26	{(c)a} {(c)b}		21 19	$1/6 = \frac{1!1!}{3!}$
{a}			1	{(a)0}		1	
{b} {c}	1	3	5 9	{(b)0} {(c}0}	3	5 9	$1/3 = \frac{0!2!}{3!}$
{0} Dummy							