

#### SVENSKA ARALSJÖSÄLLSKAPET

Swedish Aral Sea Society



## 13. The dilemmas of our economic system

Lars Rydén Professor Emeritus Uppsala University

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## 1. Economic systems

#### **Economic systems**

- Planned economy (e.g. Soviet economy)
- Capitalism (e.g. USA economy)
- Mixed economy (the state has a mixed role)
- Market economy
- Family economy

It is useful to consider which parameters to include in a budget. Not only money but also e.g. CO2 emissions, biodiversity, health etc.



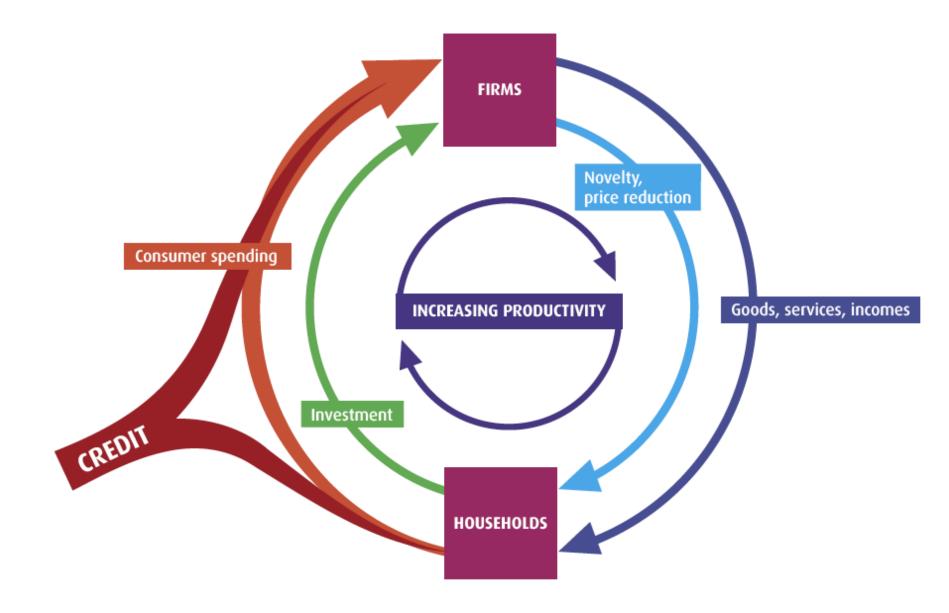
## "The neoliberal projektet"

(Ross Jackson, 2012)

- Started with Margret Thatcher and Ronald Reagan 1980.
- Supports big business with deregulation, reduced taxes and privatisation.
- Leads to increased consumption and a loan-based economy, as well as uneven distribution of income and wealth.
- Leads to requirements of increased progress marginals and short term economy.
- Banks: trading with derivatives and speculation economy

Figure 18 The 'Engine of Growth' in Market Economies

Source: Tim Jackson Prosperity without growth



#### The frames of the system

The classical system description has 3
 dimensions - ecological, social and economic
 dimensions, the triple bottom line.

 The compass with 4 dimensions, is better, especially for the social dimension.

#### The Compass:

A Sustainability Framework
Alan AtKisson, 2004

Nature

Wellbeing

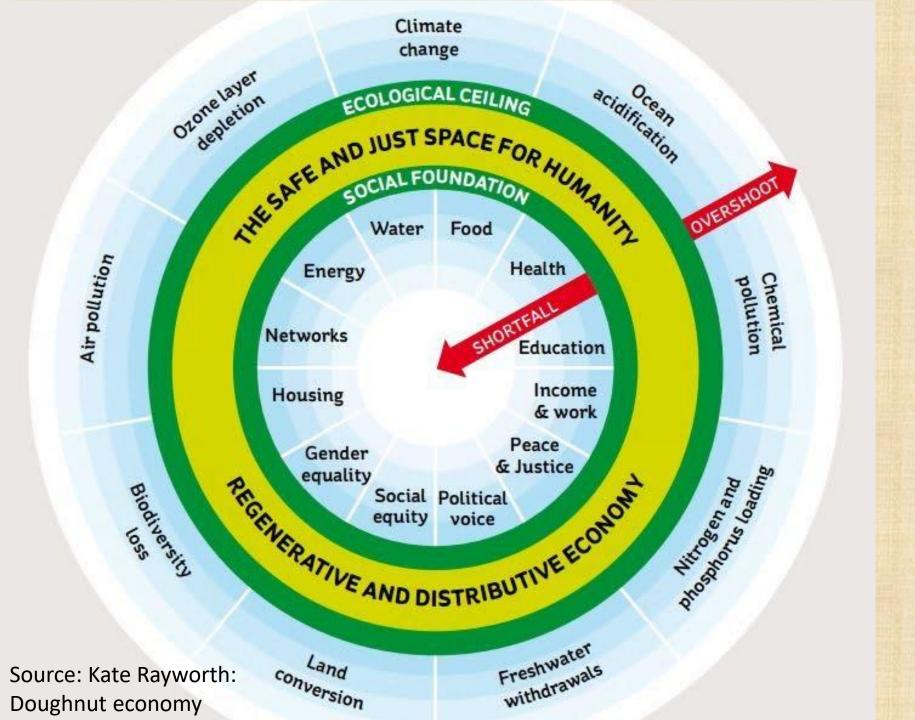


**Economy** 

Society

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Uses: Introduce sustainability ... assess it ... develop sustainability indicators ... communicate results

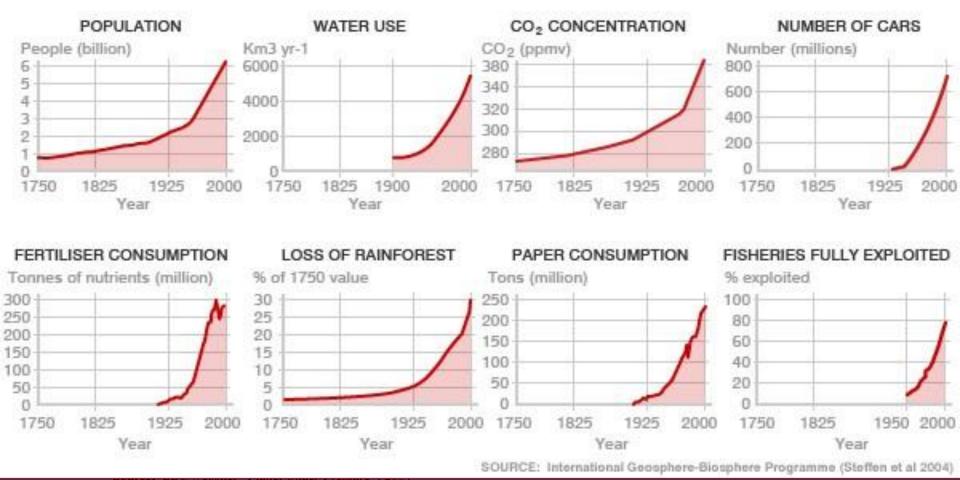


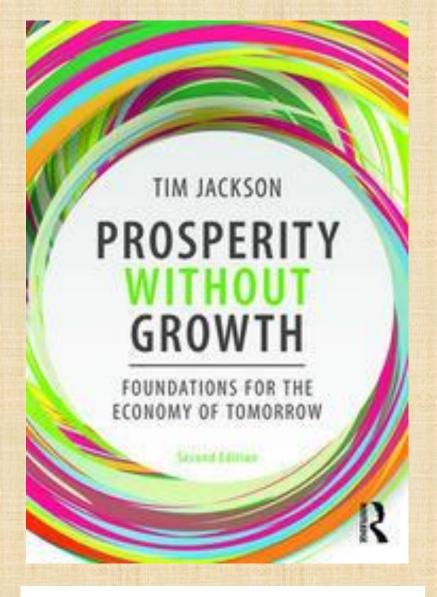
## 2. Economic growth

## Economic growth

- The economy in the world, as GDP, has increased ca 14 times from 1900 to 2000, and is still increasing.
- BNP per capita has increased ca 4 times during this period.
- The increase is measured in procent. In absolute terms 3 % means a doubling after 24 years (exponential growth).
- Economic growth has been and still is the most important policy in (almost) all countries since (about) 1950s.
- Economic growth is strongly correlated with flow of resources, both for products and services.
- Growth can not continue forever on a limited planet!

#### **Exponential Growth**





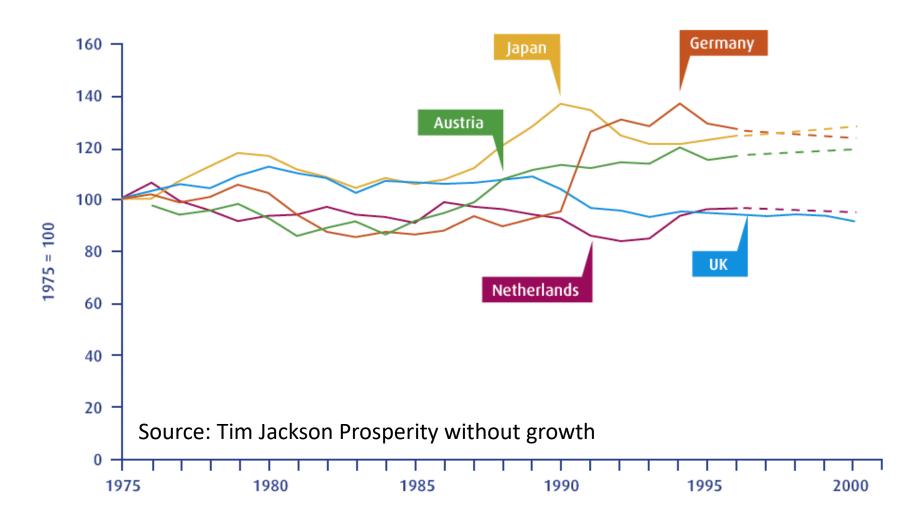
First released as a report by the Sustainable Development Commission in 2009

By Tim Jackson

2nd Edition Copyright 2017
Prosperity without Growth
Foundations for the Economy of Tomorrow

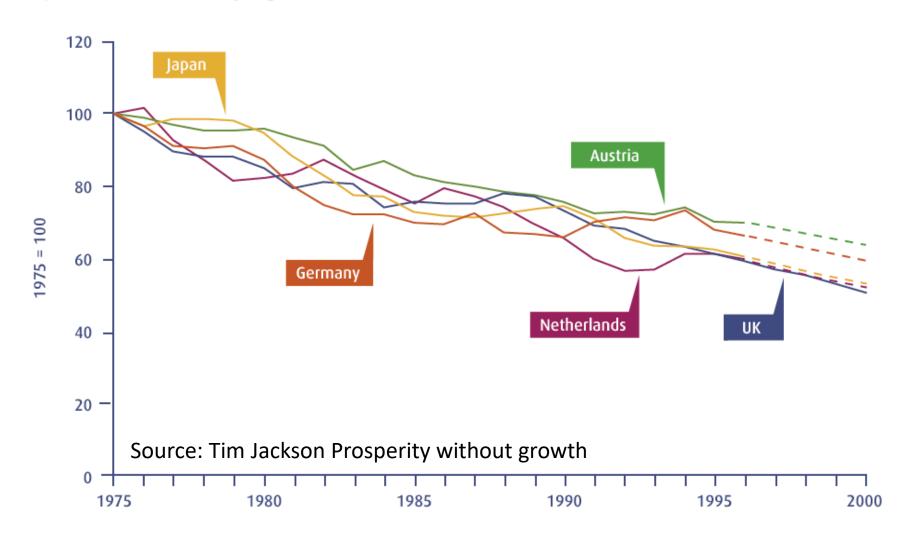
## Decoupling?

Figure 15 Direct Material Consumption in OECD Countries: 1975–2000<sup>10</sup>



## Relative decoupling

Figure 12 Relative Decoupling in OECD countries 1975–20007

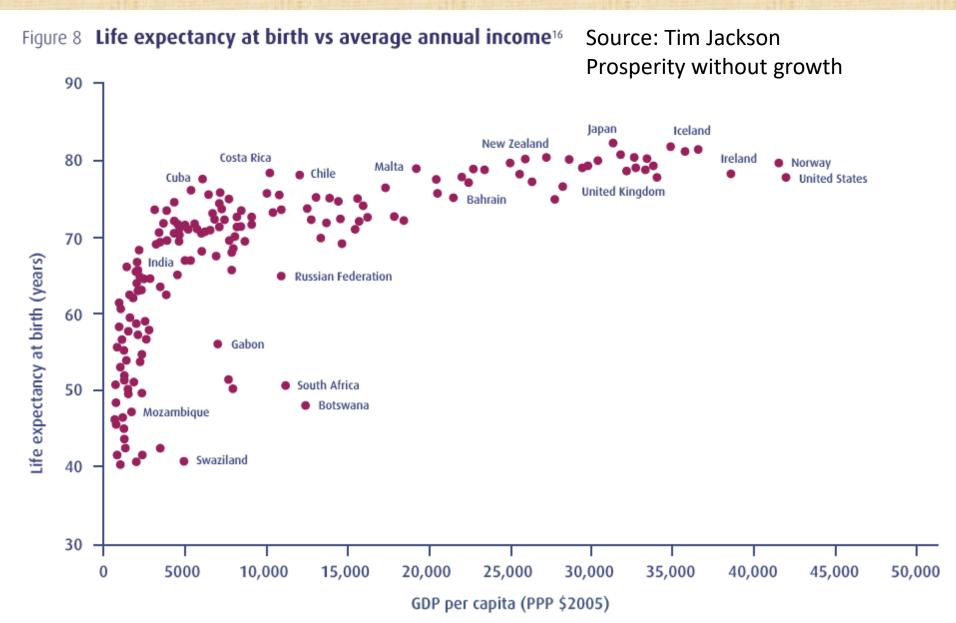


### The rebound effect

Relative decoupling is counteracted by a fast increase in consumption.

Absolute decoupling we did not see so far.

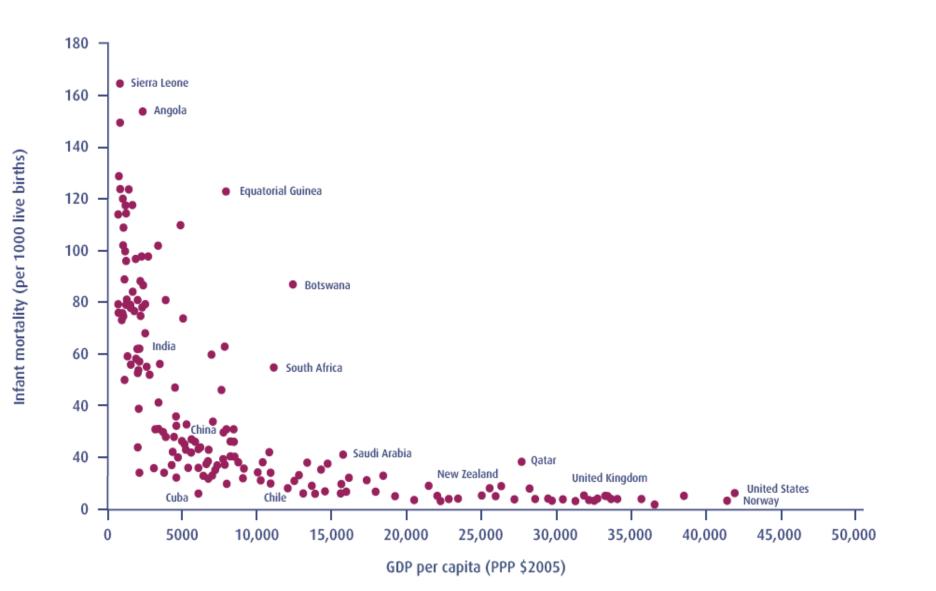
## Life expectancy vs income



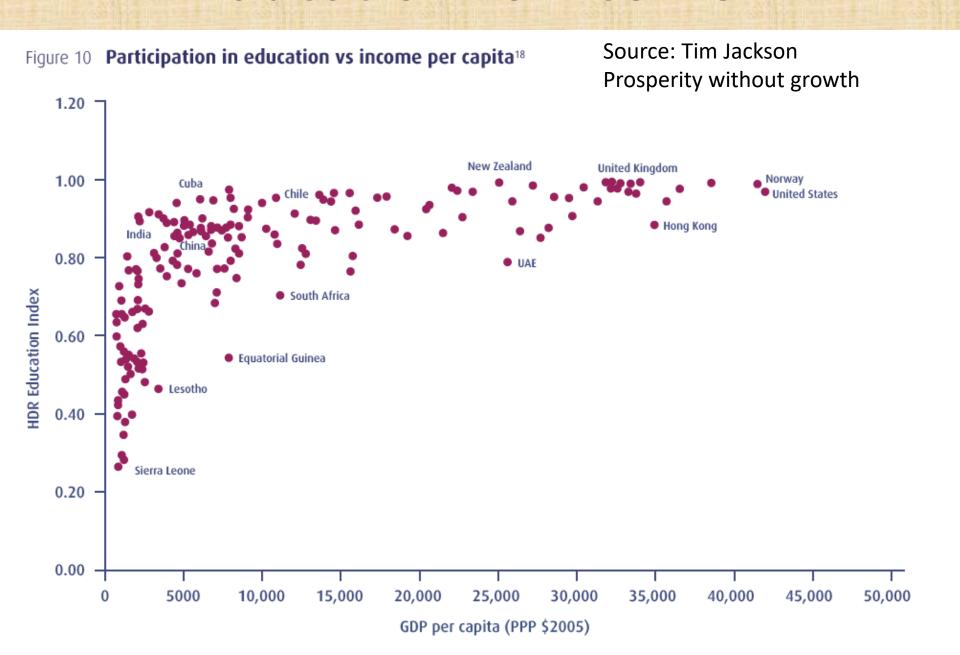
### Infant mortality vs income

Figure 9 Infant mortality vs per capita income<sup>17</sup>

Source: Tim Jackson Prosperity without growth



#### **Education vs income**



### Happiness vs income

Figure 6 Happiness and average annual income<sup>15</sup>

Source: Tim Jackson Prosperity without growth

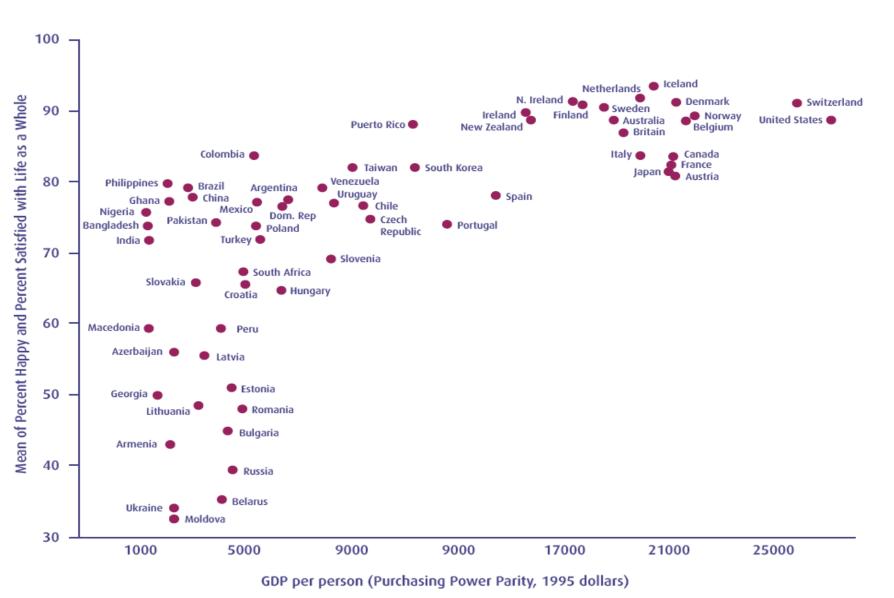
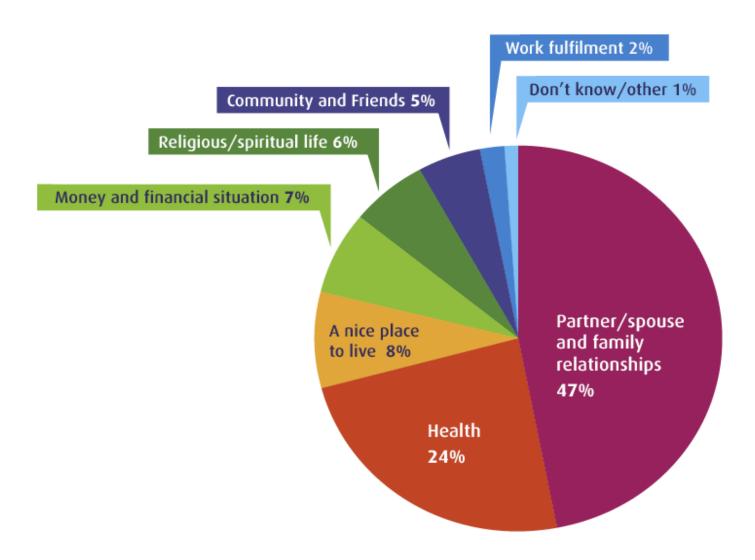


Figure 5 Factors influencing subjective wellbeing (happiness)<sup>7</sup>



Source: Tim Jackson Prosperity without growth

Why then do we want to be richer instead of happier?

#### **Alternatives to Growth Economy**

- Green growth
- Degrowth
- Postgrowth
- etc
- Personal growth and community development

Ref. Post Growth: Life after capitalism Tim Jackson 2021

## 3. Measures of progress

## How to measure the progress of a country?

- Today GDP (Gross Domestic Product) is the norm. But it only measures the total economic activities, good as well as bad.
- We need a measure of welfare, happiness or development.
- Examples include Genuin Progress Indicator,
   Social Development Index, others.

#### **World Happiness Report 2023-25**

https://worldhappiness.report/

- Trends in Conceptions of Progress and Well-Being
- Chapter 3 of the World Happiness Report 2022 surveys the growing interest in the measurement and understanding of happiness and what makes societies happy. Interest in happiness and subjective well-being is rising, while interest in income and consumption is falling.
- Chapter 2 in World Happiness Report 2025 shows that benevolent acts and expected kindness both matter for individual happiness levels.



If only economy matters

### **Dimensions of development**

Dimensions	Means	Goals
Human rights	+	+++
Environment	+	++
Governance	++	+
Economic growth	+++	0
Education	++	+
Health	+	++
Culture	+	+++

Source: Hans Rosling

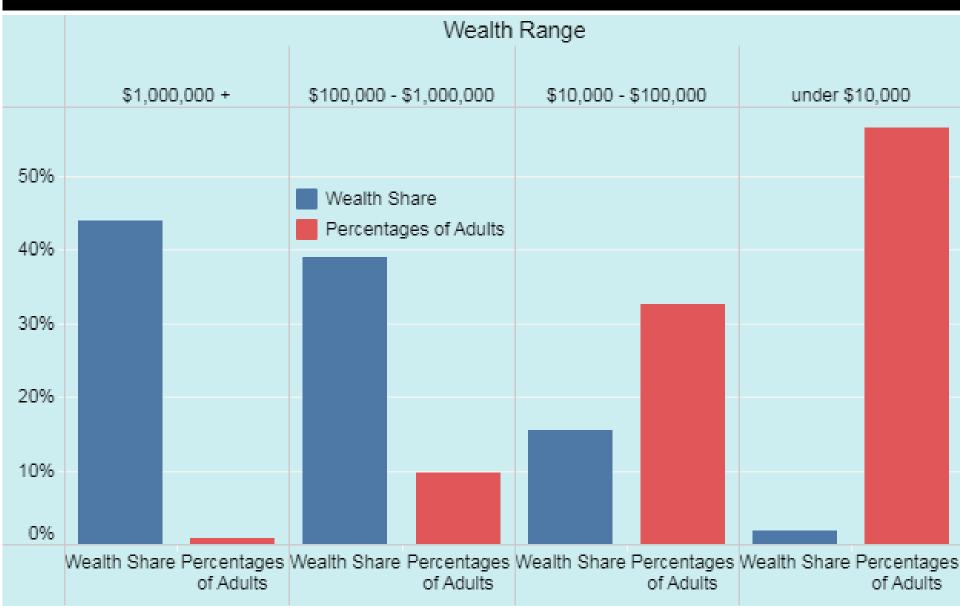
# 4. Inequality – distribution of wealth

#### **Unequal Wealth distribution**

- The richest 1% owned 40% of global assets in the year 2000 (World Institute for Development Economics)
- The wealthiest 1% owns 46% of the world's wealth (Los Angeles Times).
- A January 2014 report by claims that the 85 wealthiest individuals in the world have a combined wealth equal to poorest 3.5 billion people (Oxfam).

#### The Richest 1% Own 44% of the World's Wealth

Global adult population and share of total wealth by wealth group, 2019



Sources: Credit Suisse Global Wealth Report, 2019

## SUSTAINABLE GEALS





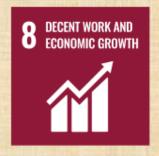


























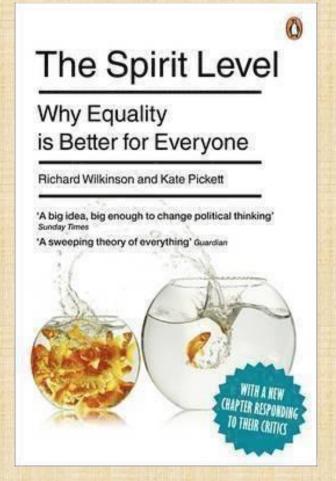








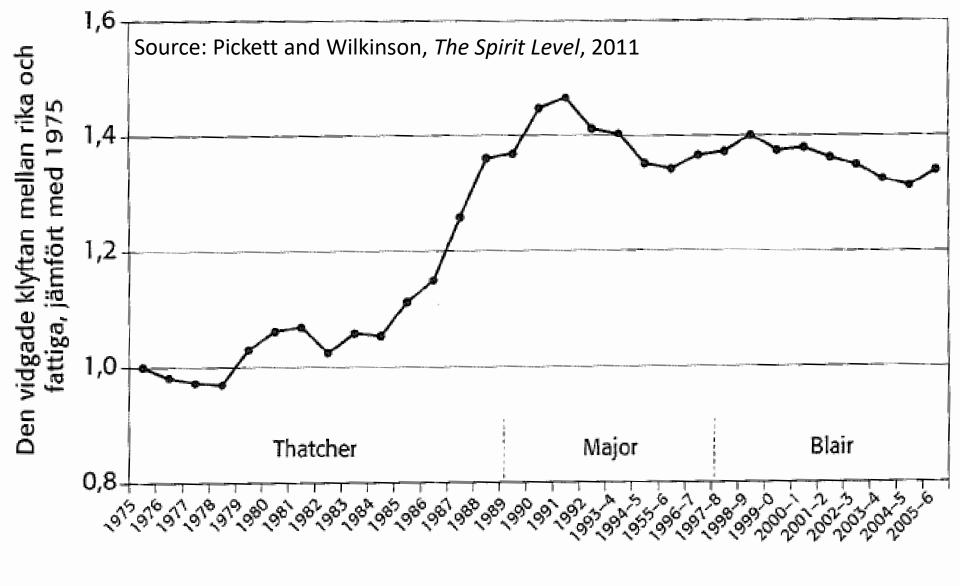
REDUCE INEQUALITY WITHIN AND AMONG COUNTRIES



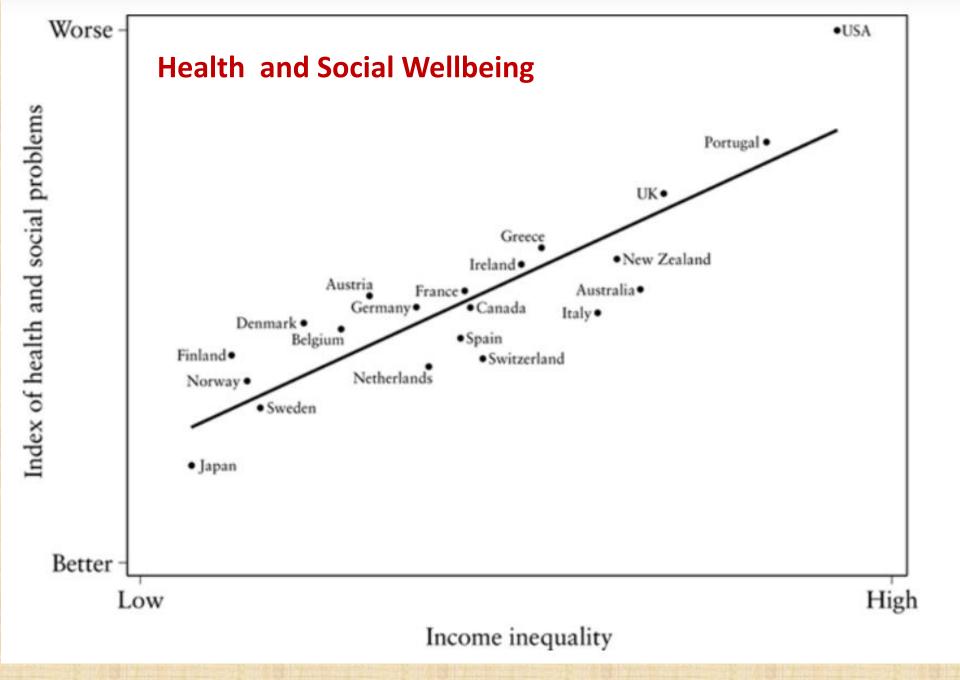
#### The Spirit Level:

Why More Equal Societies Almost Always Do Better.

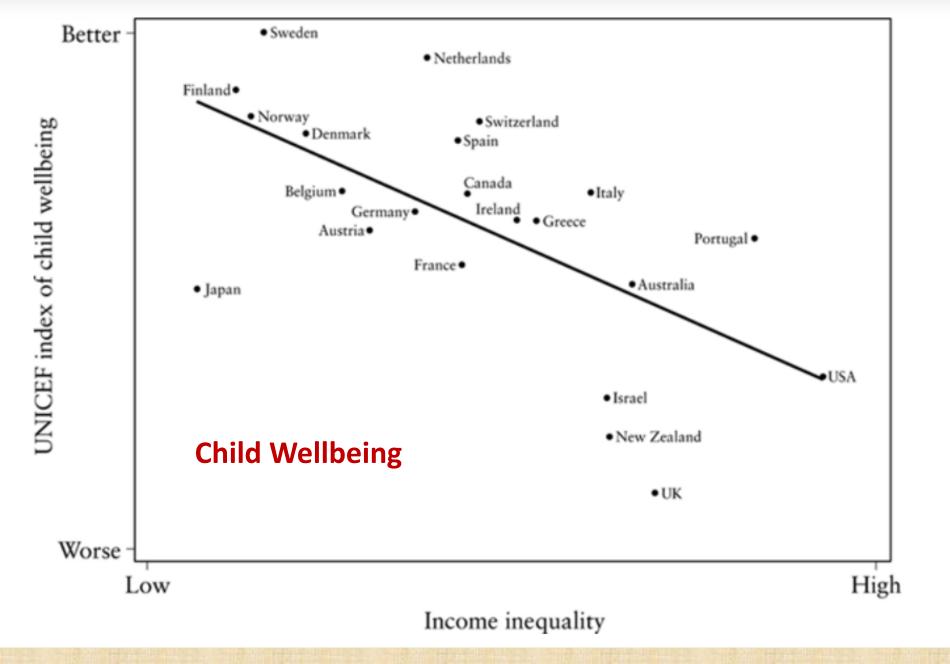
Wilkinson, R., & Pickett, K. (2009). London: Allen Lane.



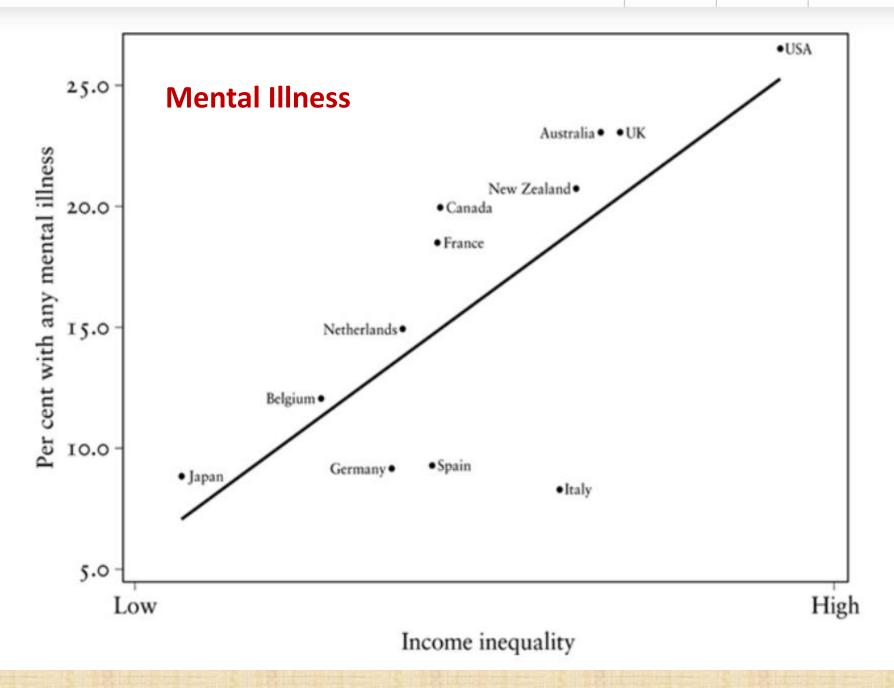
FIGUR 16.1. Den växande klyftan mellan inkomsterna för de rikaste och fattigaste tio procenten i Storbritannien från 1975 (= 1) till 2005–2006.



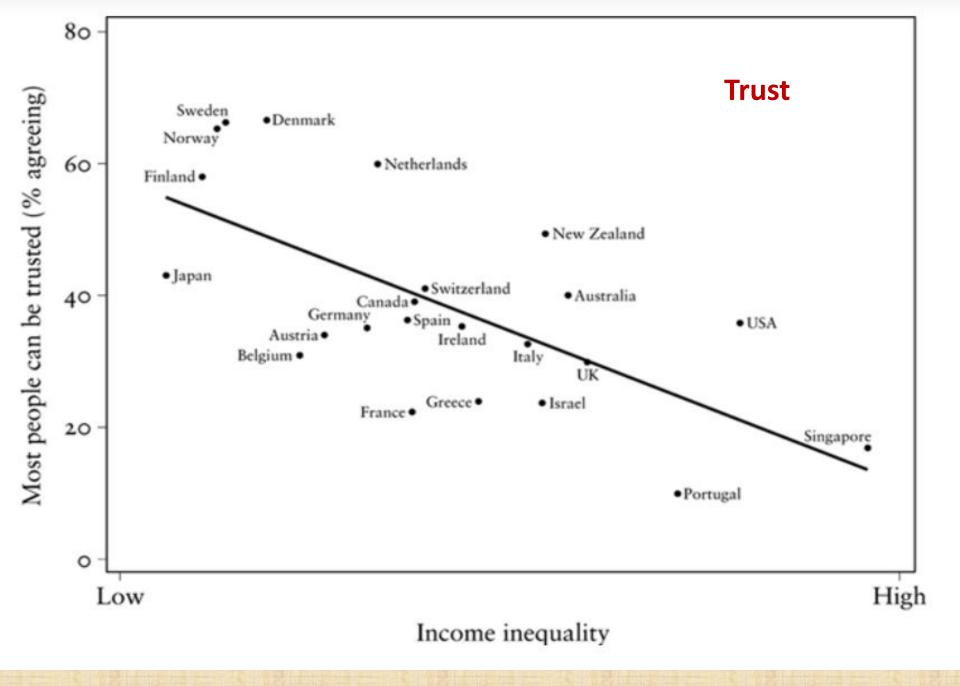
Source: Wilkinson, R., & Pickett, K. (2009). The Spirit Level



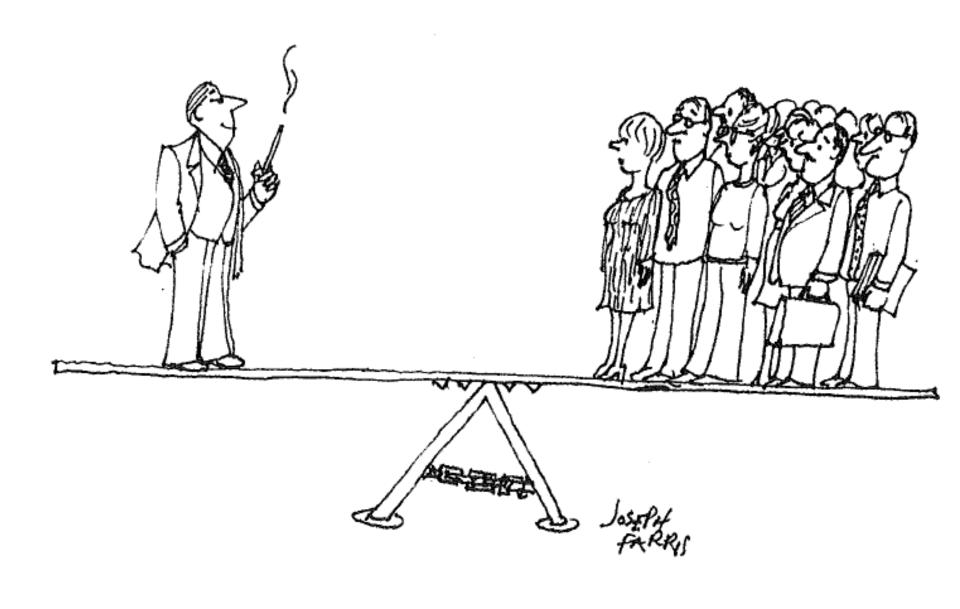
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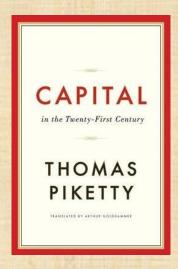
Source: Wilkinson, R., & Pickett, K. (2009). The Spirit Level



Source: Pickett and Wilkinson, The Spirit Level, 2011

# Inequality is increasing

- The richer get even richer
- They have many possibities to tax evasion
- Corruption is increasing with inequality
- Democracy is decreasing

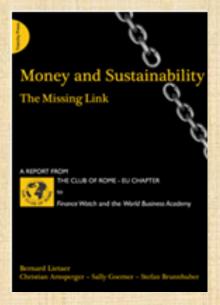


Capital in the Twenty-First Century

Thomas Piketty 2014

# Our financial system is incompatible with sustainability in several ways

- 1. It causes boom and bust cycles in the economy
- 2. It produces short-term thinking
- 3. It requires unending growth
- 4. It concentrates wealth
- 5. It destroys social capital
- 6. It is 98% speculative
- 7. It lacks monetary diversity



http://www.clubofrome.org/cms/wp-content/uploads/2012/05/Money-and-Sustainability-the-missing-link-Executive-Summary.pdf

Complete works of Bernard Lietaer

https://bernard-lietaer.org/library-intro/

Between 1970 and 2010 there were 145 banking crises, 208 monetary crashes and 72 sovereign-debt crises-in other words, a staggering **total of 425 systemic crises**. These crises have hit more than 150 countries.

'Discounted cash flow' is standard practice in any investment evaluation. Because **bank-debt money carries interest**, the discounting of all future costs or incomes inevitably leads to short-term thinking.

The process of compound interest or interest on interest imposes **exponential growth** on the economy. Yet exponential growth is unsustainable in a finite world.

The middle class is disappearing worldwide, with wealth flowing to the top and increasing poverty at the bottom. It generates social problems are detrimental to economic growth and democracy.

Social capital is built on mutual trust and results in collaborative action, but money tends to promote selfish and non-collaborative behaviours.

In 2010, the volume of foreign exchange transactions reached \$4 trillion *per day*. One day's exports or imports of *all* goods and services in the world amount to about 2% of that figure. Which means that **98% of transactions on these markets are purely speculative**.

We have a worldwide monetary monoculture in which the same type of exchange medium is put into circulation in every country: a single national currency created through bank debt. Such a monoculture tends to spawn a brittle and unsustainable system.

#### **BREAK**

 How much growth was there in your economy last years?

 What about unequal distribution of wealth and poverty in your country?

Do you have personal experience of corruption?

# 5. Ways to a sustainable economy

### Ways to a sustainable economy

- 1. Out-phase non-renewable resources
- 2. Pay for environmental impacts
- 3. Recycle all resources
- 4. Use renewable resources within their reproduction rate

It is all profitable!

### Four models of a sustainable economy

**Economy of sharing** 

**Economy of self production** 

**Economy of automation** 

Circular Economy

# The first steps

- Green tax reform— tax resources instead of work; resouces are limited, work "unlimited".
- Exchange GDP as a measure of national progress instead use welfare, happiness or similar.
- Protection of the environment is much more important than economic growth – no growth on the expense of environmental degradation.
- From consumption of things to the consumption of services

#### Tools for transition to a green economy:

- pricing externalities
- eliminating perverse subsidies
- enforcing regulatory standards
- redirecting investment flows
- promoting equity and social protection
- fulfilling oft-repeated pledges about international co-operation and assistance
- recognizing common but differentiated responsibilities

# Investments

- Individual irredeemably myopic. We favour today too much over tomorrow, in ways which, to an economist, appear entirely inexplicable under any rational rate of discounting of the future.
- 2. Companies at most five years horizon, payback time is minimized, investment options carefully avoid risks.
- 3. Public sector long term, pay back time may be 50 years, risks are taken.

# Which are the differences between the current (brown) economy and a future (green, inclusive) economy?

Current economy	Green economy
GDP growth: more economic activity the aim	'Beyond GDP': prosperity the aim
Focus on the near future (short-termism)	Long-termism
Maximisation of return	Safeguarding of long-term incomes
Shareholder value	Stakeholder value: benefit to society
Extraction of natural resources	Management of natural resources
Linear production systems	Circular production systems
Short-life products for sale	Long-life services: the 'performance economy'
Efficiency measured in monetary terms (e.g. cost- benefit analysis, CBA)	Multidimensional efficiency (e.g. multi-criterion analysis, MCA)
Micro- and macrorationality highly divergent	Micro- and macrorationality highly congruent

Source: Anders Wijkman et al The Circular Economy and Benefits for Society, 2015 Club of Rome

## **Pricing externalities**

- All environmental costs should be included.
- Polluter Pays Principle should be used.
- There are methods for converting them into monetary values.
- The state is acting to collect the payments.

## Eliminating perverse subsidies

- Today much state money is invested into fossil fuels in sectors with bad economy.
- These include fisheries and agriculture.
- Another sector is commuting support.
- (Much) less money is used for mitigation of greenhouse gases.

# Redirecting investment flows

- Investments should support a sustainable development.
- Large sums are presently used for e.g. new oil fields, instead of renewable energy.
- Financing: risk capital, pension funds etc are important actors.

# To read Sustainable lifestyles and the dilemma of economic growth

 The Baltic University Programme Sustainable Development Course. 10a. Economy and ecology – a single system. 10b. The dilemma of economic growth. 10c. Tools for approaching a sustainable economy.