

# Technology and Global Development

## Technology in Sustainable Development



Wim Ravesteijn

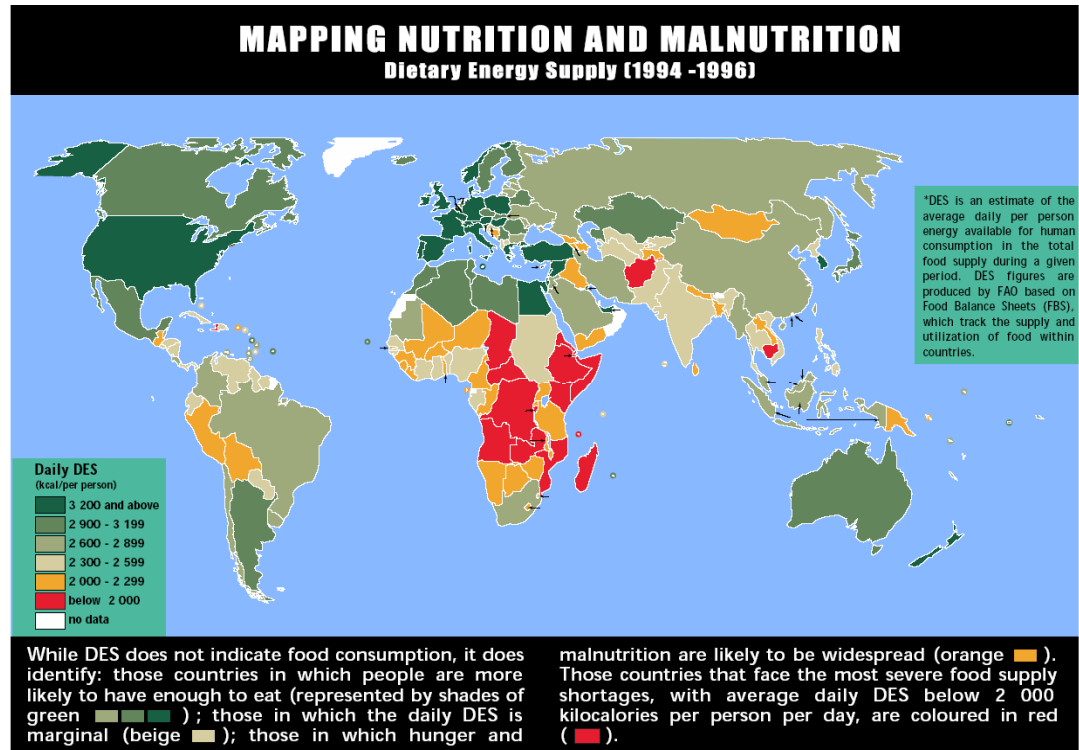
January 11, 2010

# Rich and poor

## Global Nutrition

'Food gap'

If the available food was distributed according to need, there would be enough to feed everyone in the world.

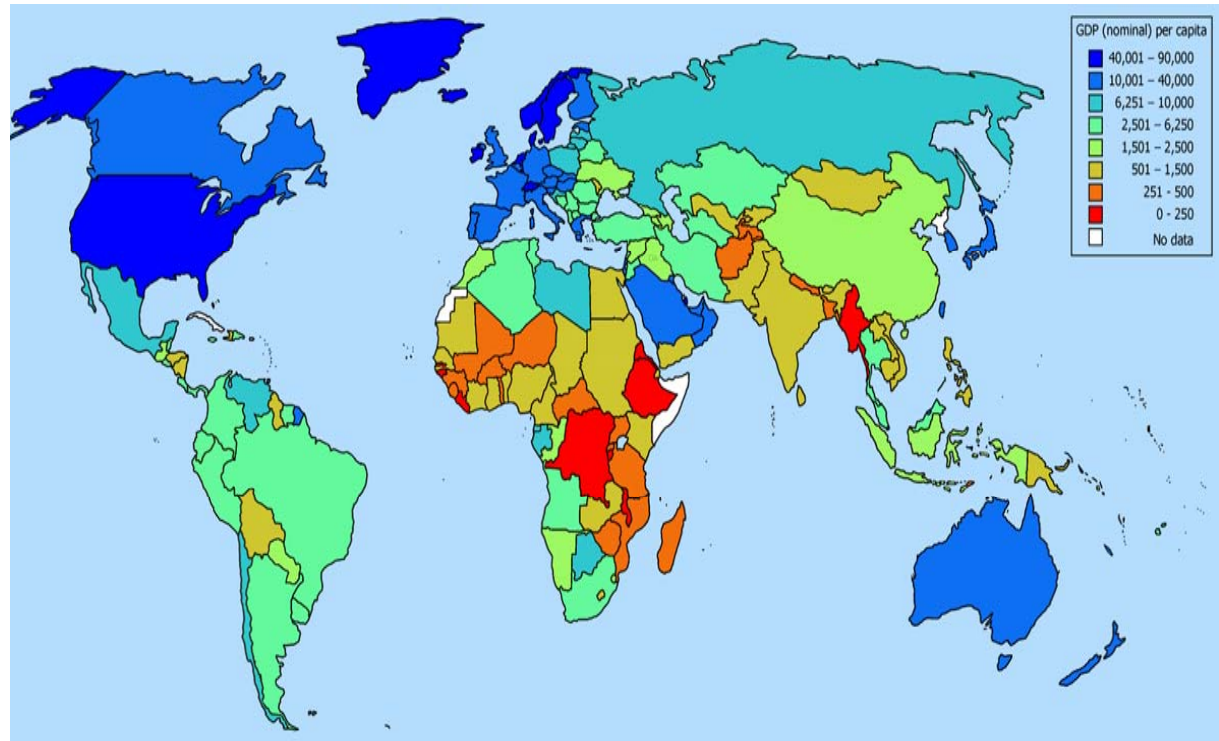


<http://www.fao.org/NEWS/1998/981204-e.htm>

# Rich and Poor

## Gross Domestic Product per Capita

GDP as an indication of the standard of living in an economy.



[http://upload.wikimedia.org/wikipedia/commons/0/09/GDP\\_nominal\\_per\\_capita\\_world\\_map\\_IMF\\_figures\\_for\\_year\\_2006.png](http://upload.wikimedia.org/wikipedia/commons/0/09/GDP_nominal_per_capita_world_map_IMF_figures_for_year_2006.png)

# Rich and Poor

## Differences

- 20% of the world's population receives 75% of the world's income, whilst 20% receives 2%
- 73% of the world's population receives 28% of the world's grain.
- 27% of the world's population uses 83% of the world's fertilizer for its foodproduction.
- 2/3 of the world's population does not have clean drinking water.

# Rich and Poor

## Differences

- Every year 16 million people die of starvation
- If 10% of the world's consumption of protein from beef is consumed from soybean protein instead, there would be no hunger in the world
- The US - 5% of the world's population- contributes 23% of the world's production

# Rich and Poor

## Questions

**How** did differences between rich and poor evolve?

**When** did differences between rich and poor evolve?

**Why** did differences between rich and poor evolve?

# Rich and Poor

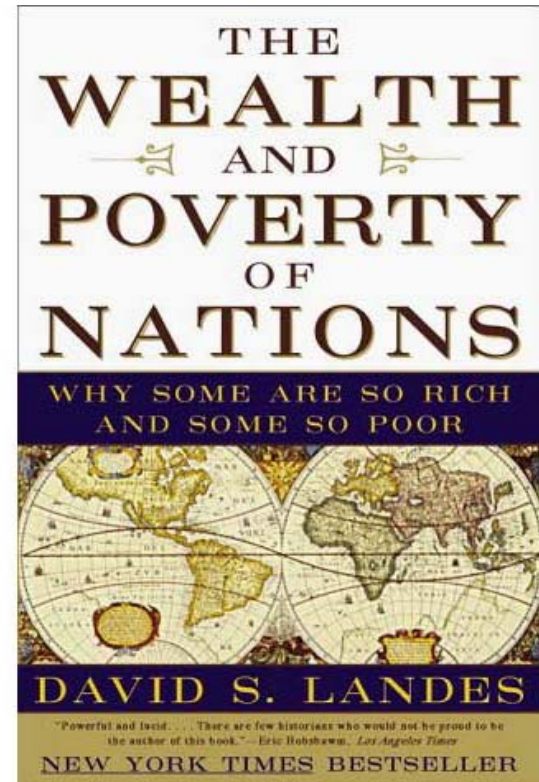
## What the experts say

David Landes:

The Wealth and Poverty of Nations

Modernity Hypothesis

Commercial, technological and industrial  
revolution of the middle ages



# Rich and Poor

## What the experts say

André Gunder Frank

Development of under-development as a result of colonialism and imperialism caused by the industrial revolution

The rich became rich by exploitation, and the poor became poor.





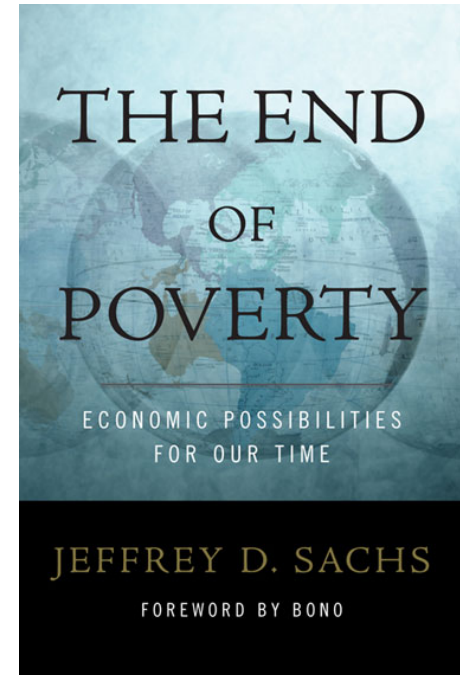
# Rich and Poor

## What the experts say

Jeffrey Sachs: The End of Poverty

Inequality is a result of the Industrial revolution that started and took place in UK from the 1750's

The rich became rich through autonomous development



# Jeffrey Sachs...

## and Bono



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# Live Aid

Bob Geldof 1985

Do they know it's Christmas?  
Feed the World: famine relief  
in Ethiopia



Bono 2005

Live 8  
Make Poverty History



# Jeffrey Sachs

## Development Strategy

- Combination of top-down and bottom-up
  - Top-down: Millennium goals
  - Bottom-up: Community Development

# Development Strategy

## Millenium goals

Set for 2015,  
the Millennium  
Goals were  
agreed upon  
by 189  
countries in  
2000



<http://www.undp.org/mdg/>

# Development Strategy

## Millennium Goals

- What makes the millennium goals unique is that it is the first international agreement that is concrete and measurable.
- Every year progress is monitored and reported internationally.
- Both rich and poor countries can be pressurized to increase their efforts to achieve the goals

# Development Strategy

## Community Development

Identifying the main bottlenecks

Setting up village committees to tackle these bottlenecks

Focused organisational, technical and financial aid.

