

ECONOMIC AND BUSINESS HISTORY 22/23

LECTURE 2 – WAS MALTHUS RIGHT?



Was Malthus Right?



Stagnation



Modern Economic Growth



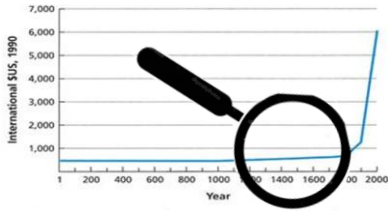
Demographic Transition



1. Malthusian Stagnation



Econ Hist in 1 Graph



1.2 Gross world product per capita (1990 International Dollars)

Source: Bolt, J., and J. L. van Zanden, 2013. "The First Update of the Maddison Project: Re-Estimating Growth Before 1820." Maddison Project Working Paper 4.

GDP (in million 1990 USD): India, China and Europe

	1	1000	1500	1600	1700	1820
India	29	34	61	74	91	111
China	34	27	62	96	83	229
Europe	14	11	44	66	81	159

Source: Maddison Homepage

GDP per capita (in 1990 USD): India, China and Europe

	1	1000	1500	1600	1700	1820
India	450	450	550	550	550	533
China	450	450	600	600	600	600
Europe	576	425	797	888	1.028	1.234

Source: Maddison Homepage;

Stagnation

- The period before 1800 (or 1815 or 1820, depending on the authors) was one of stagnation or, at best, very slow growth (>1%)
 - As measured by the real GDP (the monetary value in real terms of all goods and services produced in a given economy in a given year)
- Yet, this overall growth was not accompanied by growth in productivity, as measured by GDP per capita, which stagnated (India or China) or grew at a low pace
- Thus, GDP growth was a function of population growth
- This observation can be confirmed with alternative datasets

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Why did per capita incomes changed little?

- Given that there is no doubt that human societies have the potential for growth, the near-stagnation of per capita incomes is rooted into an obstacle



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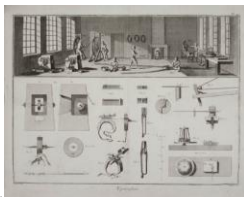
Classical Theory: Rise Labour Productivity

For Adam Smith, growth was essentially per capita output (roughly equivalent to labour productivity)

The key factor in increasing labour productivity was the Division of Labour.

His example of the Pin factory replacing the isolated pin maker is the bedrock of his reasoning.

- The productivity of 1 pin-maker working solo is inferior to 20 pins/day
- In contrast, 10 specialized laborers working coordinately have a productivity of 480 pins/day
- Capital invested is integral to the argument: the investment of a given capitalist has a multiplier effect on the productivity of the laborer (the Capitalist organizes the productive process and supplies the adequate machinery)
- Increases in productivity also benefit workers, who get better wages and also (while consumers) lower prices



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If so, why no Growth?

It's the politicians' fault

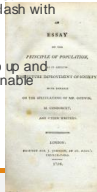
I mean, let me rephrase it: the problem is **bad institutions**. Human nature is always trying to improve productivity, regardless of natural scarcity. Let me quote now the real Adam Smith:



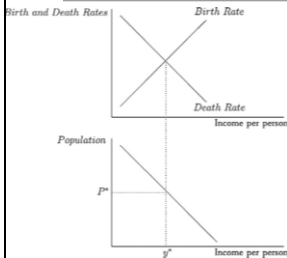
The natural effort of every individual to better his own condition [faces] a hundred impertinent obstructions with which the Folly of human laws too often incumbers his operations; though the effect of these obstructions is always more or less either to encroach upon its freedom, or to diminish its security. (The Wealth of Nations, IV, cap. 5)

ALternative theory: the problem is natural scarcity

- The Malthusian Model instead states that increases in output lead populations to increase their fertility
- This increased fertility, however, is not sustainable as at some point it will dash with natural resources (food)
- When this happens, mortality will go up and population descend back to a sustainable level

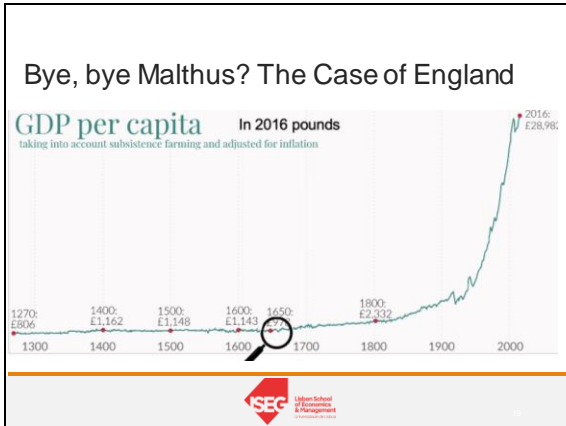


Why did per capita incomes changed little? (2)



- Alternatively, knowing the outcome of their increase in numbers, populations will diminish their fertility so that population does not grow
- The result is that population remains stagnant as birth and death rates equate (graph above)
- Likewise, given that natural resources constrain output (graph below), per person income ALSO remains static

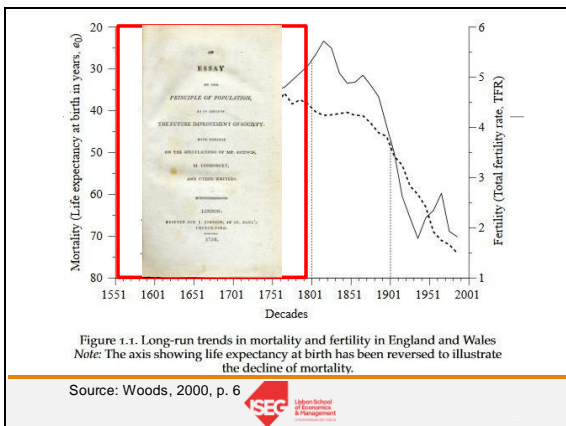




Population AND Economic Growth

- Malthusian forces did not prevent growth process c. 1800
- English economic growth went along with population growth via:
 - Decrease in mortality rates
 - Increased fertility
- These two demographic facts were the result of rapidly-improving living conditions, since the 17th century

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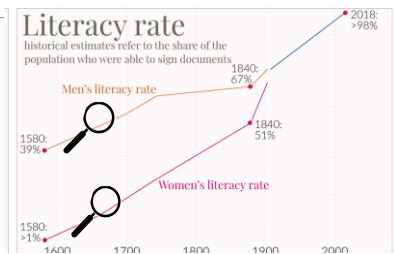
Food Supply per Capita

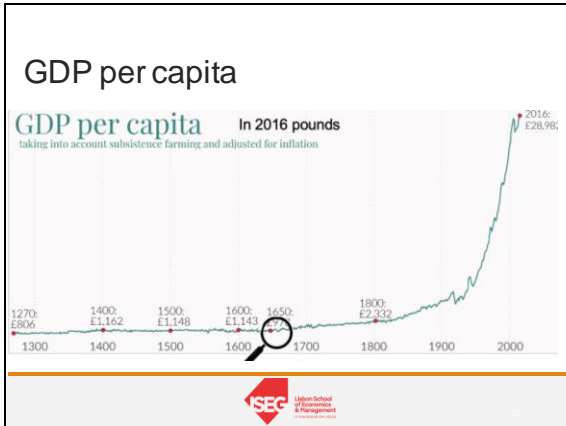


Life Expectancy



Literacy Rates

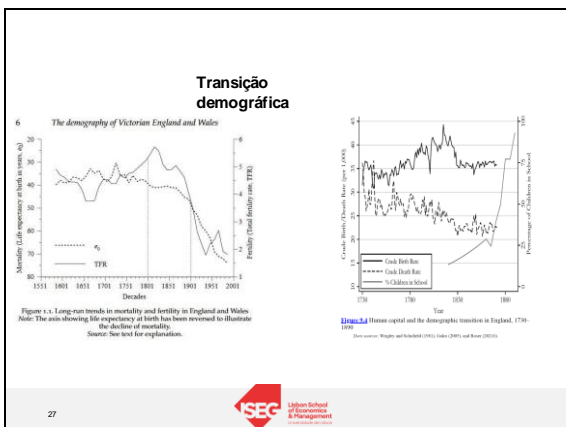




E a população deixou de travar o aumento do rendimento *per capita*?

Sim. Através da transição de um regime de elevadas taxas de mortalidade e de natalidade para um regime de baixas taxas de mortalidade e natalidade.

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Objectives

- Learn the predictions of the Malthusian model and its relevance for pre-1800 performance
- Identify the aggregate characteristics of MEG
- Learn what is the demographic transition

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Questions

- Were pre-1800 per capita incomes stagnant ?
- What is Kuznetsian growth?
- Did demographic growth affected the earliest, post-1800 period of growth?

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