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	GDP pc 1960	GDP pc 2010	Annual Growth
United States	15,398	41,365	2.00%
UK	11,204	34,268	2.26%
France	10,212	31,299	2.27%
Spain	6,316	27,332	2.97%
Greece	534	26,918	8.16%
South Korea	1,656	26,609	5.71%
Singapore	4,383	55,862	5.22%
China	772	7,746	4.72%
India	720	3,477	3.20%
Haiti	1,513	1,410	-0.14%
D. R. Congo	696	241	-2.10%

#### World distribution of average growth rates > GDP Growth Total Includes Countries Guatemala, Iran. 35 Mexico Includes France, Spain, UK, USA 30 Includes Ghana, 25 Kenya, Rwanda Includes 20 Ireland, Japan Includes 15 Haiti. Includes Central African Botswana Includes 10 Republic, Singapore, China, Nicaragua S. Korea Malaysia 5 Thailand Includes D.R. Congo <(-1)% (-1)-0% 0-1% 1-2% 2-3% 3-4% 4-5% >5% Income 10

9

## Sustained vs. Catch-up growth 🤑

## > GDP Growth

11

- \* There are **2** entirely different processes of economic growth:
- 1. <u>Sustained growth</u>: sourced in the country's own advancement:
  - From technological innovation and development in human capital
  - ▶ Those grow *slowly* but can keep improving *forever*.
- 2. Catch-up growth: due to technological spillovers from more developed countries:
  - a) Because of abundance of local underutilized human capital
  - b) Because of influx of foreign investment
  - c) Because of supporting foreign investment by developing *infrastructure* and improving local efficiency of labor.
- \* Not all economies in the world were able to experience catch-up growth

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10

11

## Growth before the 1800s

## > History of Growth

13

> History of Growth

15

- \* Before the modern times, economies *did not exhibit* sustained growth
- ★ Babylon, Egypt, ancient China, ancient Greece, Persia, Rome, Venice, experienced *prolonged periods* of prosperity:
  - But yearly growth of output was insignificant
  - And it could easily come to an end.
- \* There are 3 reasons for the lack of sustained growth before the 1800s:
  - 1. The *pace of technological change* was much slower than today
  - 2. New wealth was claimed by the few and was rarely put in productive uses
  - 3. Leaders never really cared to lift their citizens out of poverty

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Malthusian limits to growth ()
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- In 1798, Thomas Malthus published his theory about *fertility fertility*: the number of children per woman
- \* Malthus observed that *fertility would adjust* so that income per capita would always remain close to the *subsistence level*
- When GDP pc climbed <u>above the subsistence level</u>, people would use it to have *more kids*, lowering GDP pc back to subsistence even till recently, children was the main source of *cheap labor* for the family
- ★ When the GDP pc fell <u>below the subsistence level</u>, famine, child mortality or war would decrease the **population**, increasing GDP pc back to subsistence

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14

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13

## Breaking away from the Malthusian cycle

- ★ The Malthusian model was a good representation for population till the 1800s still is for non-human populations (e.g. locust swarms, wild rabbits, pigeons, rats)
- \* Before 1800, most labor was employed on the production of *necessities*
- ★ <u>After 1800</u>, *technology* freed a large portion of workers from the production of necessities allowing them to move to *other more productive sectors*:
  - This boosted economic growth to unprecedented levels
  - Caused the *demographic transition* to the *urban economy* as we know it today.
- \* Modern families *did not rely* on the labor of children for prosperity:
  - Children turned *from assets* of a family, *to liabilities*
  - ▶ The "<u>large</u> family" ideal was *displaced* by a "<u>smart</u> family" model.
- \* Technology enabled humanity to break away from the Malthusian cycle

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## The Industrial Revolution (1760)

- \* The Industrial Revolution started in Britain from textile manufacturing
- ★ It was the first time in history when *technology* and *science* were used in production in such a coordinated manner
- \* Most *developed countries today*, were actively part of the Industrial Revolution 250 years ago
  - US, UK, Germany, France, The Netherlands, Belgium, Canada, etc.
- \* The wealthy countries of the future will be the ones that *invest* in R&D *today*

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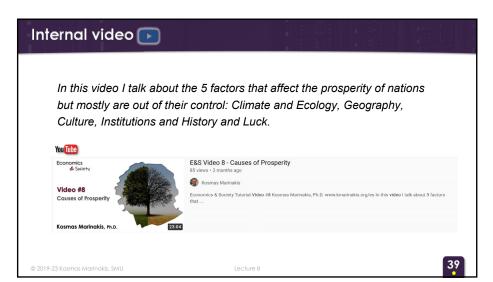
> History of Growth

14

> History of Growth

16





39

## External video 🕟

A short but really interesting video on why Africa is still poor and the effect of "End Poverty in Africa" initiatives from the wealthier parts of the world.

Why Is Africa Still In Poverty?
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# Thank you! (you are welcomed to stay for consultation or discussion)

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