UNDERSTANDING GLOBALIZATION

Chapter 4 of How The World Really Works (Part 1)

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Smil Book Club

· Goods: merchandise

· People: tourists

· Money: investment

· Information: communication

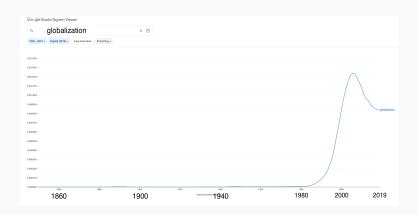


World airline route map 2009, By Jpatokal - Own work, CC BY-SA 3.0, https://commons.wikimedia.org/w/index.php?curid=7127535

Globalization is not a historical inevitability preordained by economic and social evolution

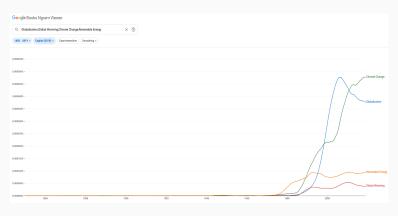
- · human construct
- · growing consensus on readjustment
- the retreat during 1913-1950 (due to the inequality of global economy before WWI¹)
- · the intensive globalization was challenged (1973 and 1979 oil crisis)

¹Williamson, JG. 1997. Globalization and inequality, past and present. The World Bank Research Observer. 12(2): 117-135.



https://books.google.com/ngrams/graph?content-globalization&year_start=185@&year_end=2019&corpus=en-2019&smoothing=3

Globalization, Global Warming, Climate Change and Renewable Energy



https://books.google.com/ngrams/graph?content-Globalization%ZCGlobal:Warming%2CClimate+Change%2CRenewable+EnergySyear_start=18585year_end=28195corpus=en=28195smoothing=3

FOUR DISTINCT ERAS OF GLOBALIZATION

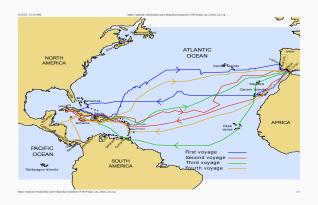
- · Incipient globalization: connecting the world
- · Globalization 2.0: steam engines and telegraph
- · Globalization 3.0: diesel engines, flight and radio
- · Globalization 4.0: large diesels, turbines, containers and microchips

INCIPIENT: GLOBALIZATION'S DISTANT ORIGINS



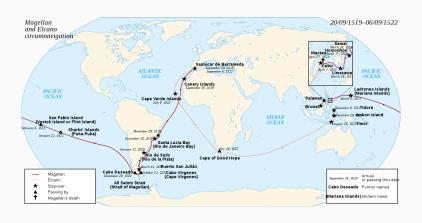
Extent of the Silk Road and Spice trade routes in 1453

INCIPIENT: GLOBALIZATION'S DISTANT ORIGINS



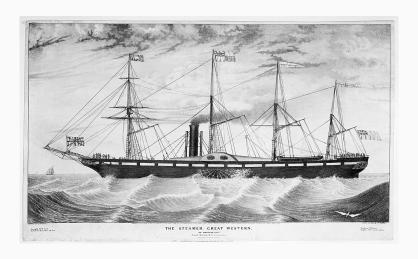
The Voyages of Christopher Columbus (1492–1504)

INCIPIENT: GLOBALIZATION'S DISTANT ORIGINS

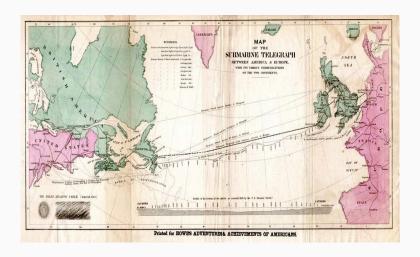


By Magellan_Elcano_Circumnavigation-fr.svg.CC BY-SA 3.0, https://commons.wikimedia.org/w/index.php?curid+8448739

GLOBALIZATION 2.0: STEAM ENGINES AND TELEGRAPH



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GLOBALIZATION 2.0: STEAM ENGINES AND TELEGRAPH

- · Telephones (1876)
- · Railroads (post-1840)
- · Large steam liners (1910)
- · Literary sensibility, Joseph Conrad









1950-1973 growing of four materials

· Steel: 4 times ****

· Cement: 6 times ******

· Ammonia: 8 times *******

- · The advanced diesel engines (1950s size doubled)
- The gas turbine for jetliners (1938, 1944, 1949)
- The containers (1957)
- The leaps in computing and information processing (ENIAC, 1945)

Larger diesel engines (deadweight ton, DWT) after discovery of Middle East oil fields

· **pre-1950**: 16k

· 1956: 50k

· **1960s**: 180k – 320k

· **1970s**: 500k

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· 1938: first independently emerged in England and Germany

· 1944: WWII

· 1949: Comet, British

· 1958: Boeing

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