Day 19: International Issues

Daniel J. Mallinson

School of Public Affairs Penn State Harrisburg mallinson@psu.edu

PUBPL 481

Road map

• Brief overview of the following:

- Population Growth Issues
- Global pollution (ozone, greenhouse gases, deforestation, ocean pollution)
- North-South Conflict

Why are international environmental issues more difficult to solve than those we have discussed already?

Global Population and Carrying Capacity Rapid Population Growth



Figure: Population Education

llinsor	

Global Population and Carrying Capacity Growth Rate

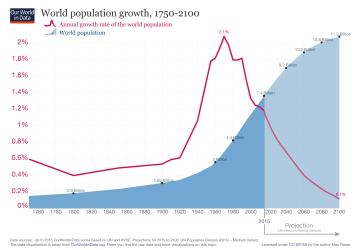
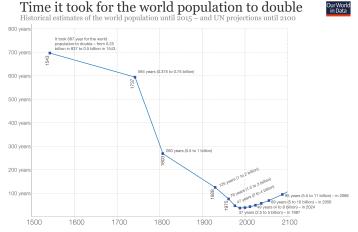


Figure: Roser and Ortiz-Ospina 2017

Global Population and Carrying Capacity Doubling Rate



Data source: OurWorldinData annual world population series (Based on HYDE and UN until 2015. And projections from the UN after 2015 ('Medium Variant' 2015 Revision). The data visualization is available at OurWorldinData.org. There you find the raw data, more visualizations, and research on this topic. Licensed under CC-BY-SA by the author Max Roser.

Figure: Roser and Ortiz-Ospina 2017

all		

Day 19

Global Population and Carrying Capacity Geographical Distrbution of Growth

Natural population growth, 2015

Natural population growth is the population increase determined by births and deaths. Migration flows are not taken into account.



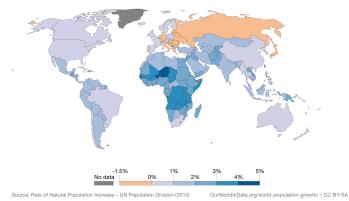


Figure: Roser and Ortiz-Ospina 2017

Demographic Transition Theory Can this save us?

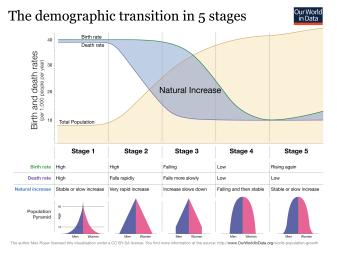


Figure: Roser and Ortiz-Ospina 2017

Malthus and Carrying Capacity

- Humans also subject to ecological carrying capacity
- Smith's options:
 - Reduce population
 - Redistribute wealth



Figure: Iconographic Collection 727250i, CC BY 4.0

Global Pollution Challenges

Ozone

- I Greenhouse gases
- Oeforestation
- Ocean Pollution

What are the challenges of managing these common poll resources? What is the potential for international conflict?

North-South Conflict

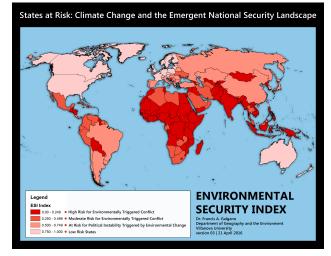
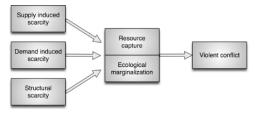


Figure: Galgano 2016

Environmental Conflict

Potential Models



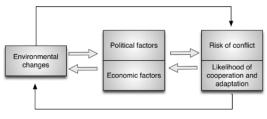


Figure: Bernauer et al. 2014

M		

Go Vote!



Figure: SUNY Geneseo