

Objectives

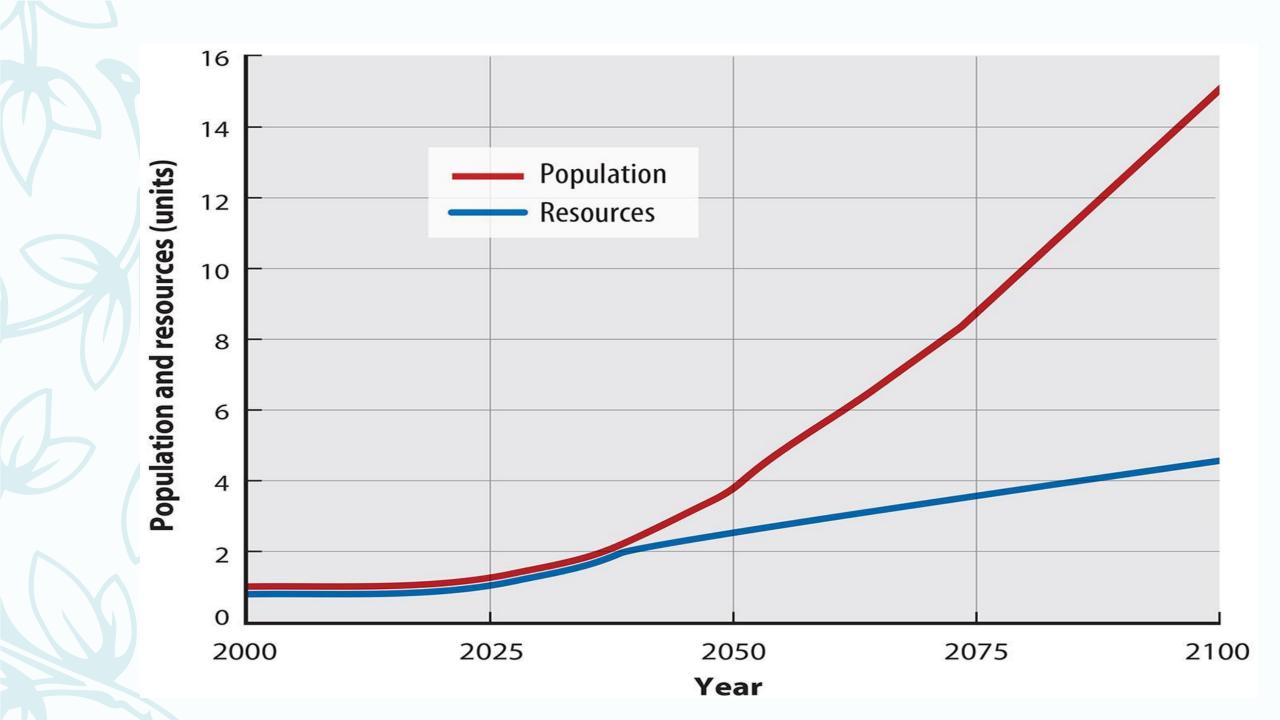
- Summarize supporting and opposing Malthus' theory
- 2. Explain Stage 5 of DTM and future population
- 3. Explain reasons for Stage 5 in the Epidemiological Transition
- 4. Explain reasons for declining birth rates

Thomas Malthus (1766-1834)

- 1st to argue that the world's population increase was outrunning the food supplies.
- Published An Essay on Principles of Population
 - Said population increased geometrically
 - Food supply increased arithmetically
 - Population growth would press against available resources in every country unless moral restraint, produced lower CBR or disease, famine, war or other disasters produced a higher CDR



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Characteristics of recent population growth make Malthus' theory more scary



Critics question the population growth and resource depletion predicted



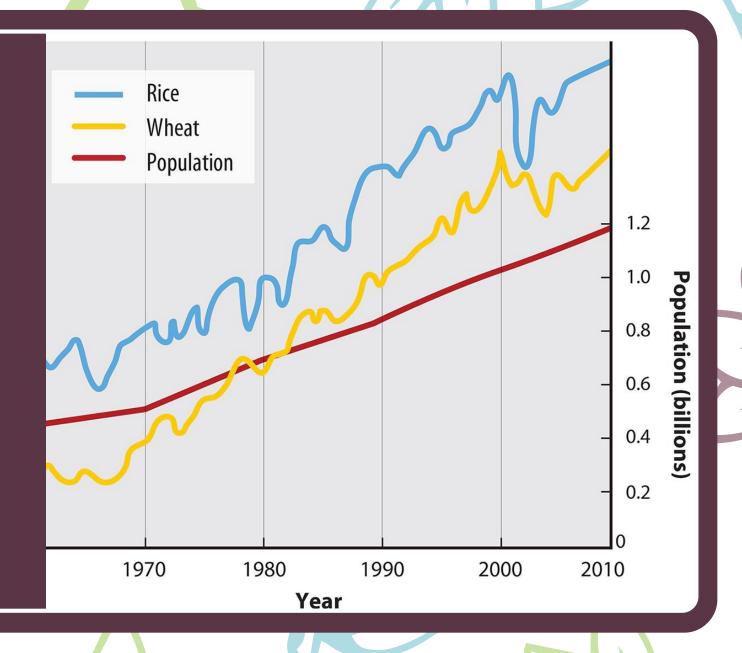
Malthus was close on the resources but pessimistic on the population growth





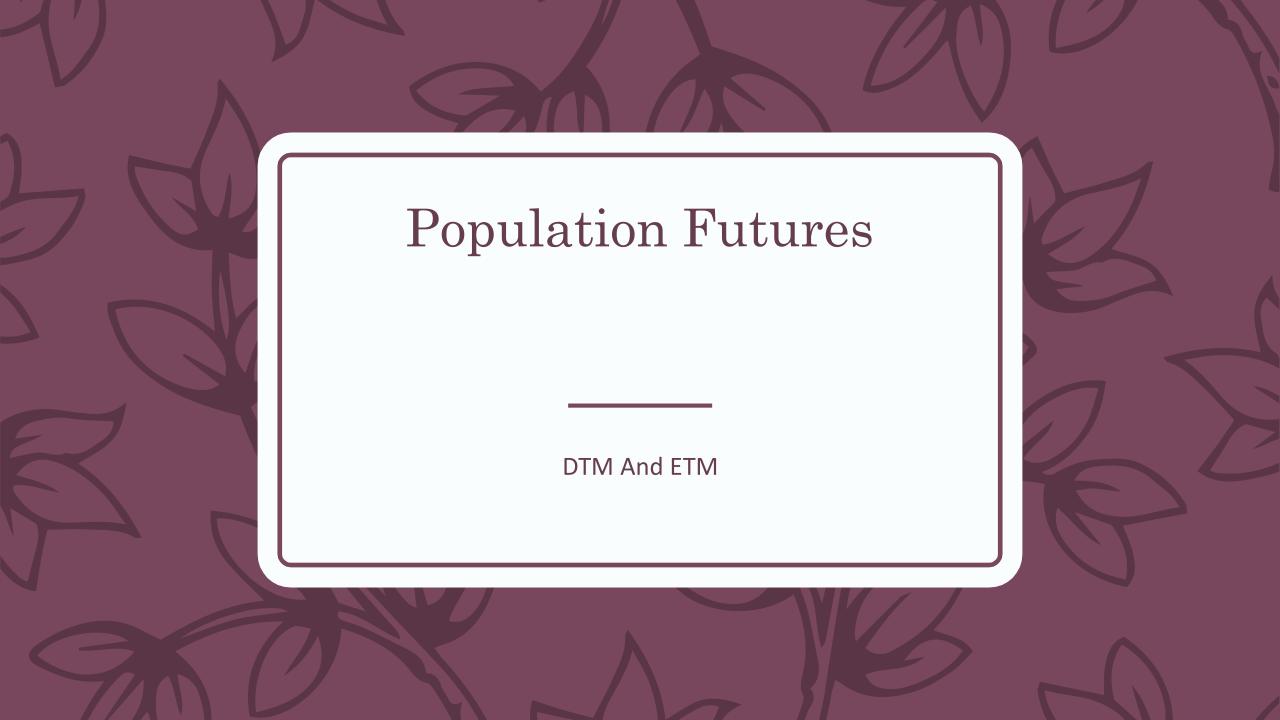
India Example

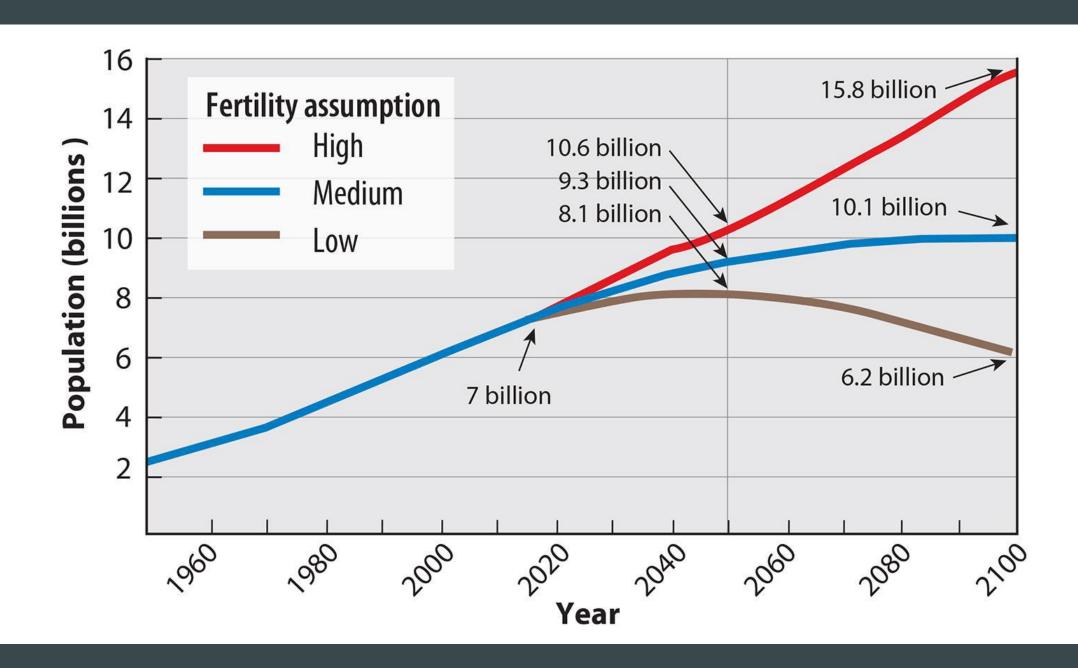
Better growing techniques, higher yielding seeds, and cultivation of more land led to greater food supply



Critics on Population

- Malthus was less accurate
- Model says population would quadruple during a half century
- Africa has rapid population growth
 - Land is unable to sustain the population



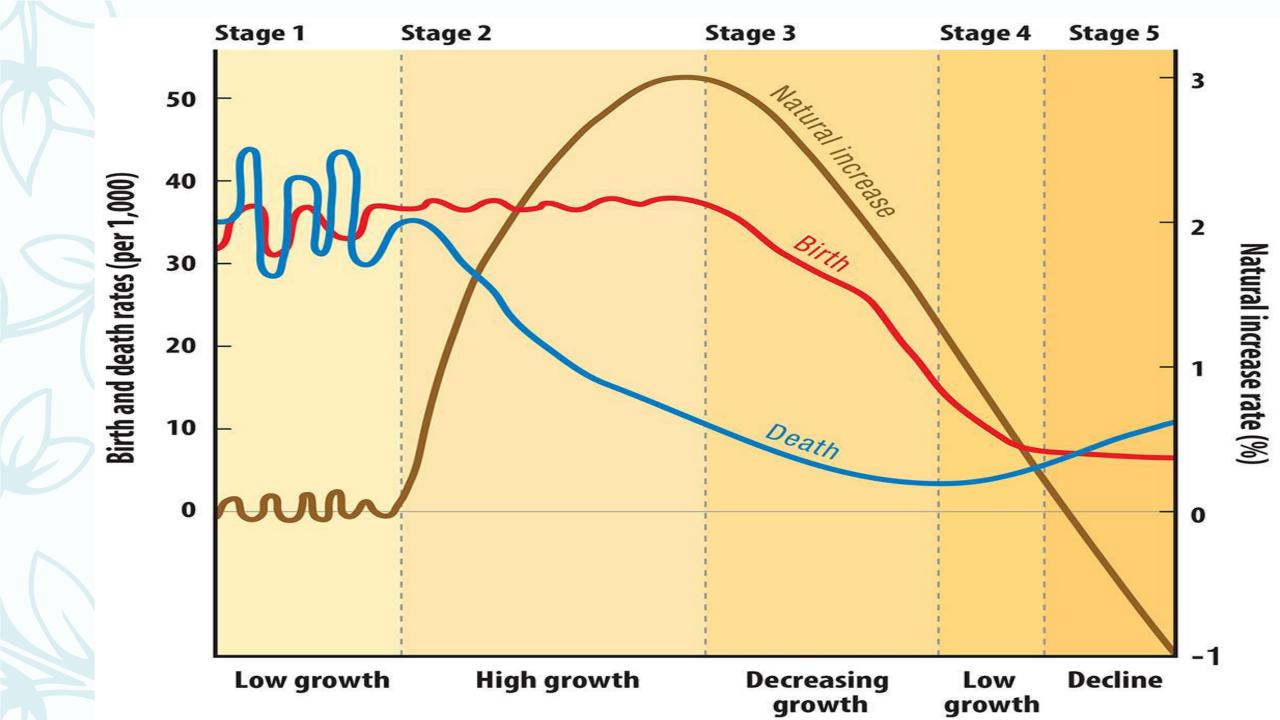


Stage 5 DTM

- Very low CBR
- Increasing CDR
- Declining NIR
- Predicted for some developed countries
- Fewer young women reaching child bearing age deciding to have fewer children = Lower CBR

Communist Countries

- Several Communist countries already have a low NIR
- Low CBR pessimistic about having children
- High CDR inadequate pollution controls and inadequate reporting





China One Child Policy

- One child policy 1980
- Couple needed a permit to have one child
- Received financial subsidies
 - Long maternity leave, better housing, more land
 - Contraceptives, abortions and sterilization

CBR declined from 18 to 12

NIR declined from 1.2 to 0.5

Govt abandoned policy in 2015



India Policy

- 1952 Family planning
 - Clinics that provided alternative methods of birth control
 - Free or low cost birth control devices
 - Legalized abortions
 - 1970s Sterilization camps
 - Many feared forced sterilizations
 - Family planning programs emphasize education
 - Include advertising on TV and radio
 - CBR dropped from 34 to 18 in 2015

Japan and the DTM

Japan would be the first country to reach stage 5
UN Forecasts that the population in Japan will fall to 84 mil in 2100
With decline comes increase in elderly

Economic challenges

Aging population

Less working aged people

How are they addressing the issue?

Encouraging more people to work

Japanese women – marry and raise children or stay single and

work

Women are choosing to work

Japan's Population Decline

