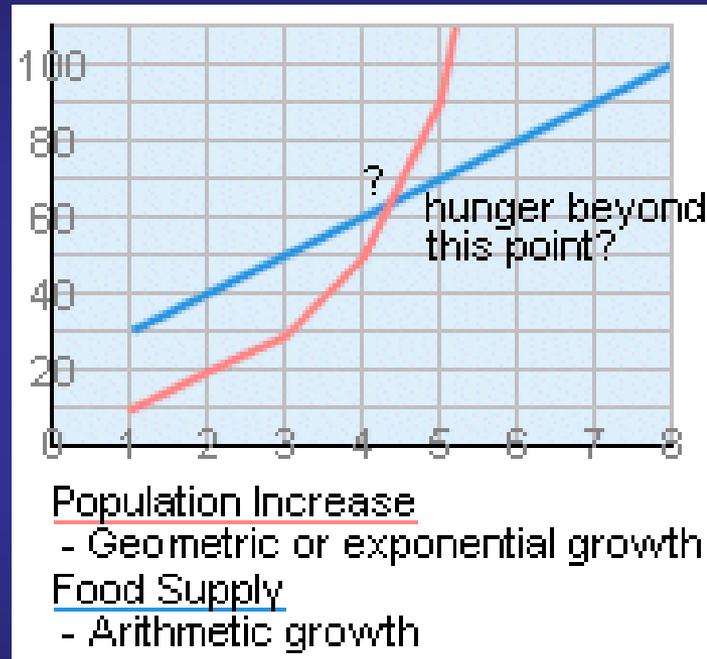


Chapter 2 Review

Malthus Theory



Do things increase more quickly when they grow
geometrically or arithmetically?

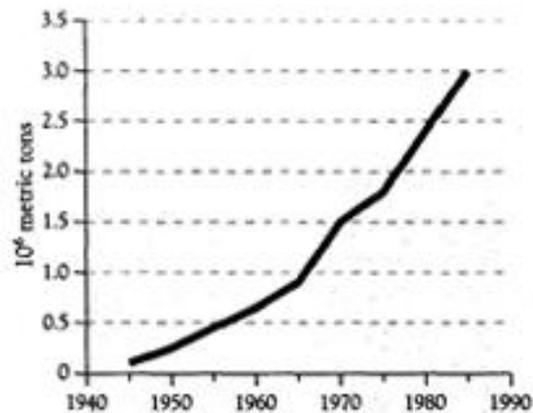
Overpopulation



Explain when **overpopulation** might occur within a country or region.

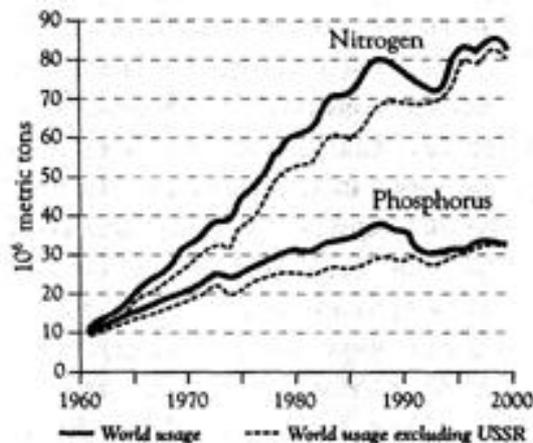
Green Revolution

Figure 1
Global Pesticide Production
1945–1985



Source: Modified from Tilman, David, et al. 2001. "Forecasting Agriculturally Driven Global Environmental Change." *Science* 292–284.

Figure 2
Global Fertilizer Use
1960–2000



Source: Food and Agriculture Organization of the United Nations. <http://apps.fao.org> (Accessed July 17, 2002).

Note that the apparent leveling of world fertilizer use since 1990 is a result of the collapse of the Soviet Union and subsequent decreases in Soviet fertilizer use. Fertilizer use for the rest of the world has continued to increase at unsustainable rates.

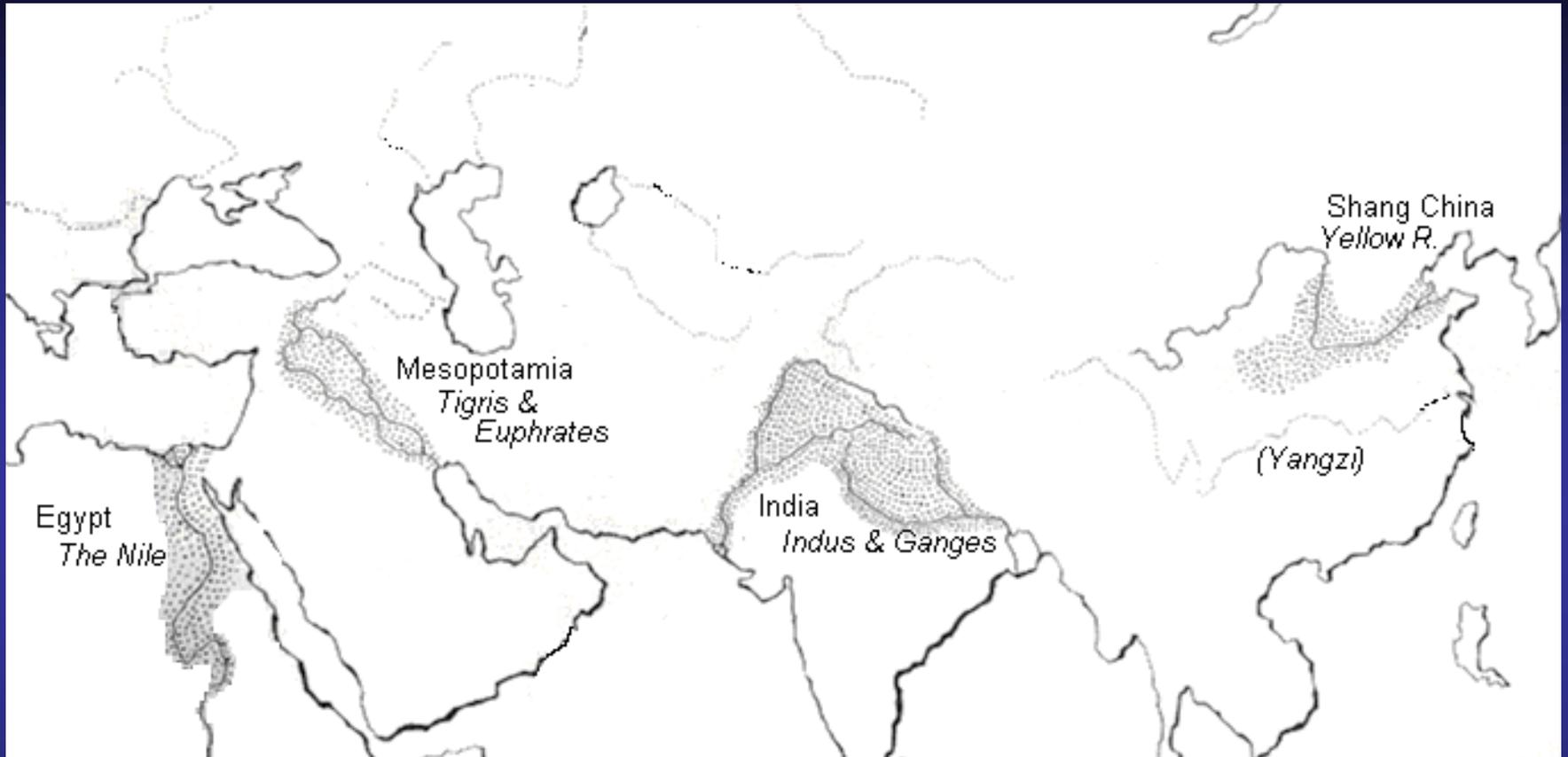
Adaptive Trial on Hybrid (F₁) Rice Seed Production
at the Level Barind Environmental Conditions



Dr. Md. Abdur Rashid
Md. Khalid Aurangozeb
Md. Abdul Majid Pramanik

How did the Green Revolution help prove Malthus Theory incorrect...so far?

Early River Valley Civilizations



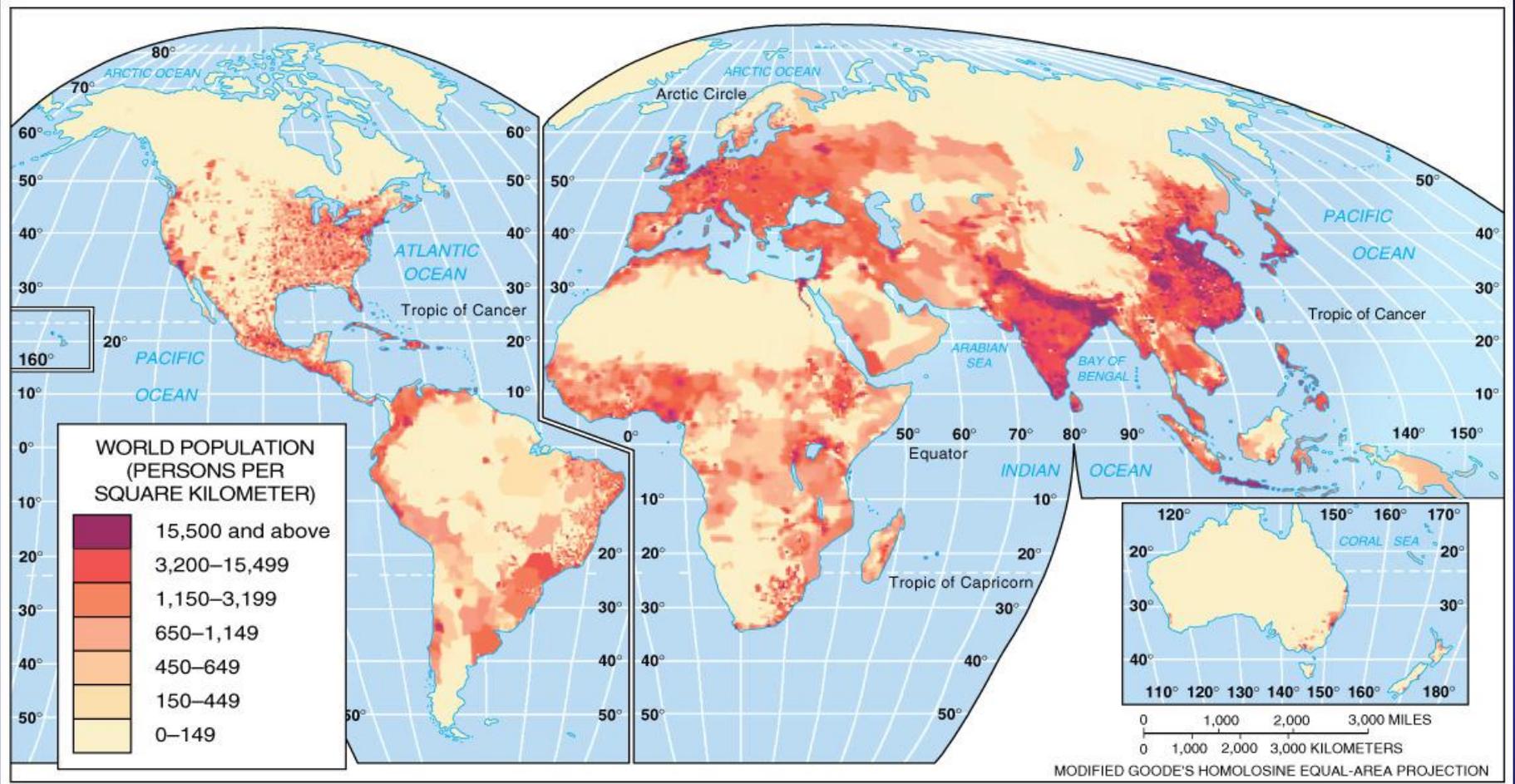
Why have large population centers been found near **river valleys** throughout most of human history?

Sparse Populated Regions

What types of places do humans tend to avoid?

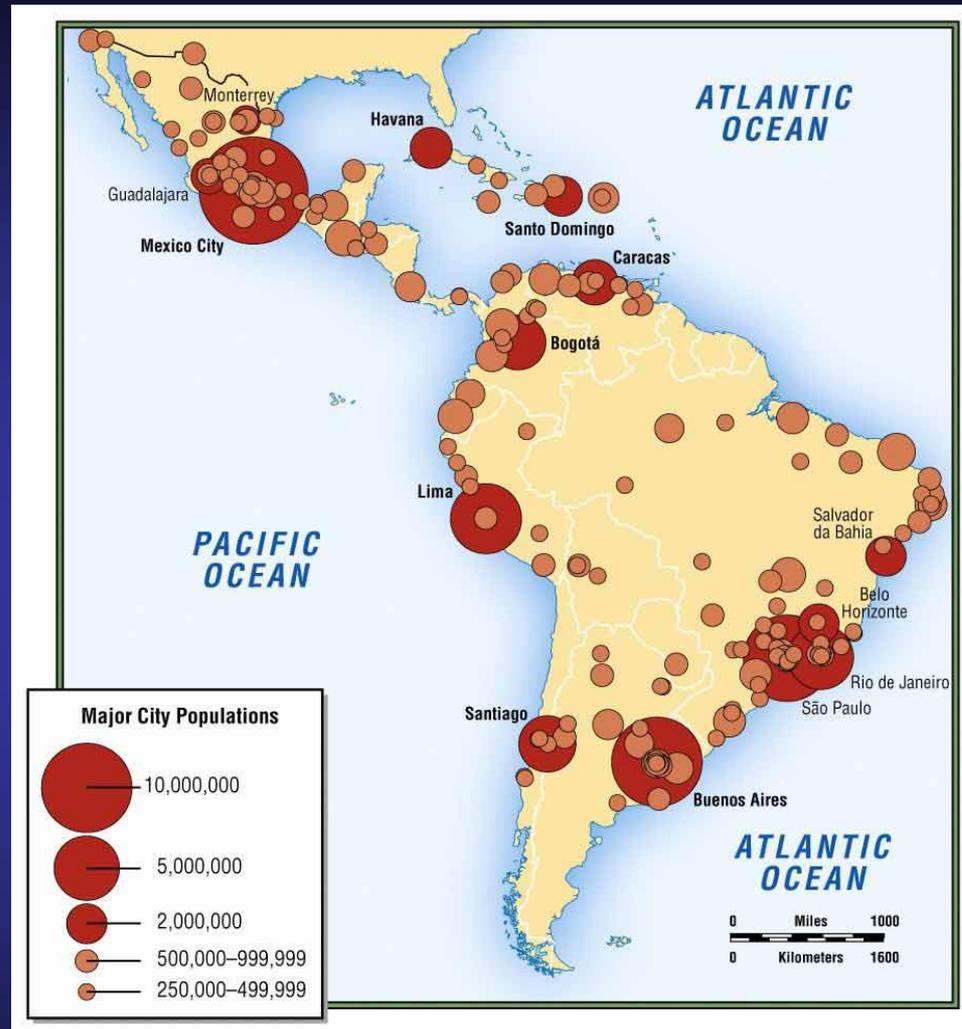


World Population Density



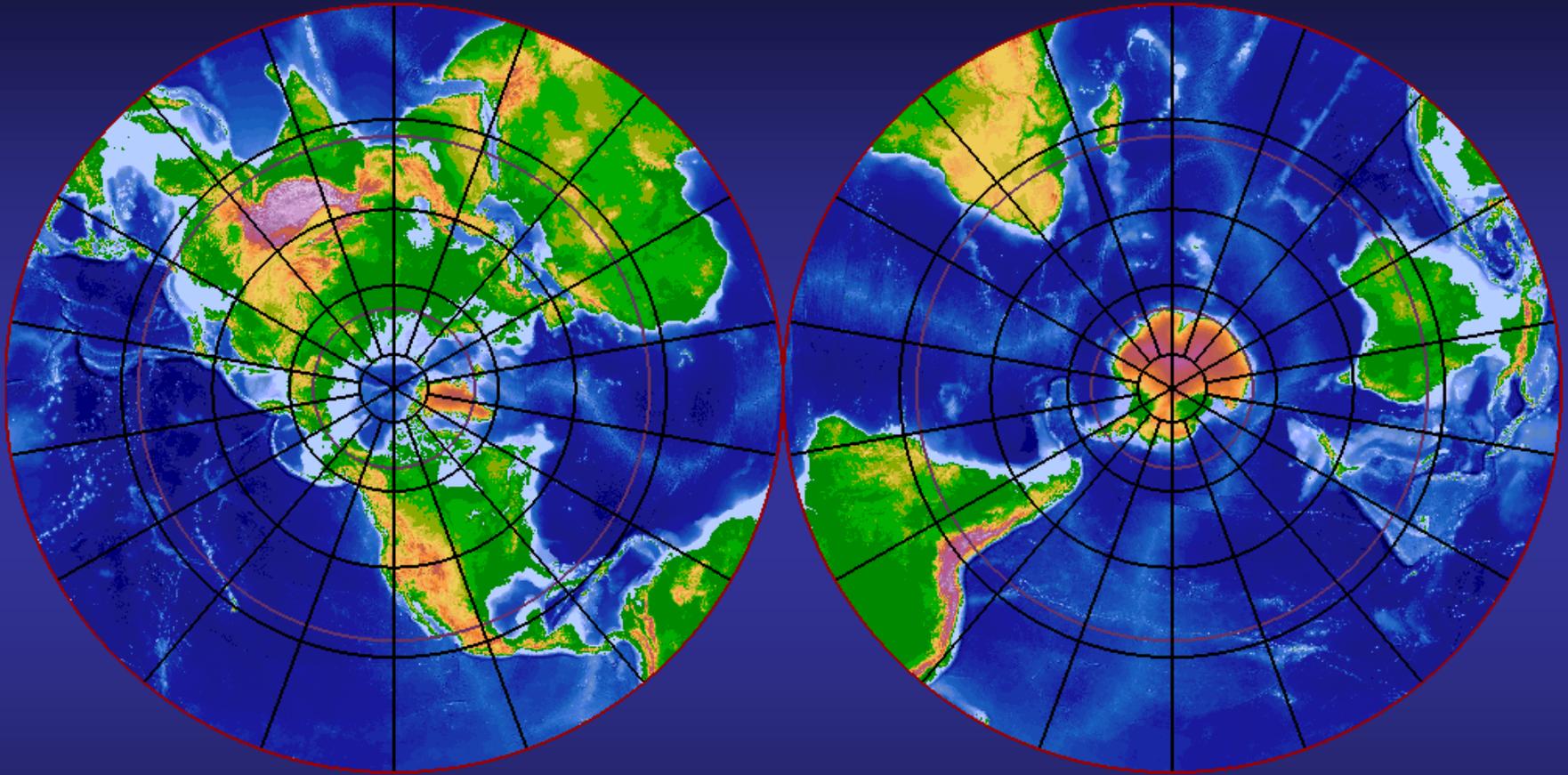
In which regions do most of the world's people live?
What do we call regions of permanent human settlement?

Major Population Centers of Latin America



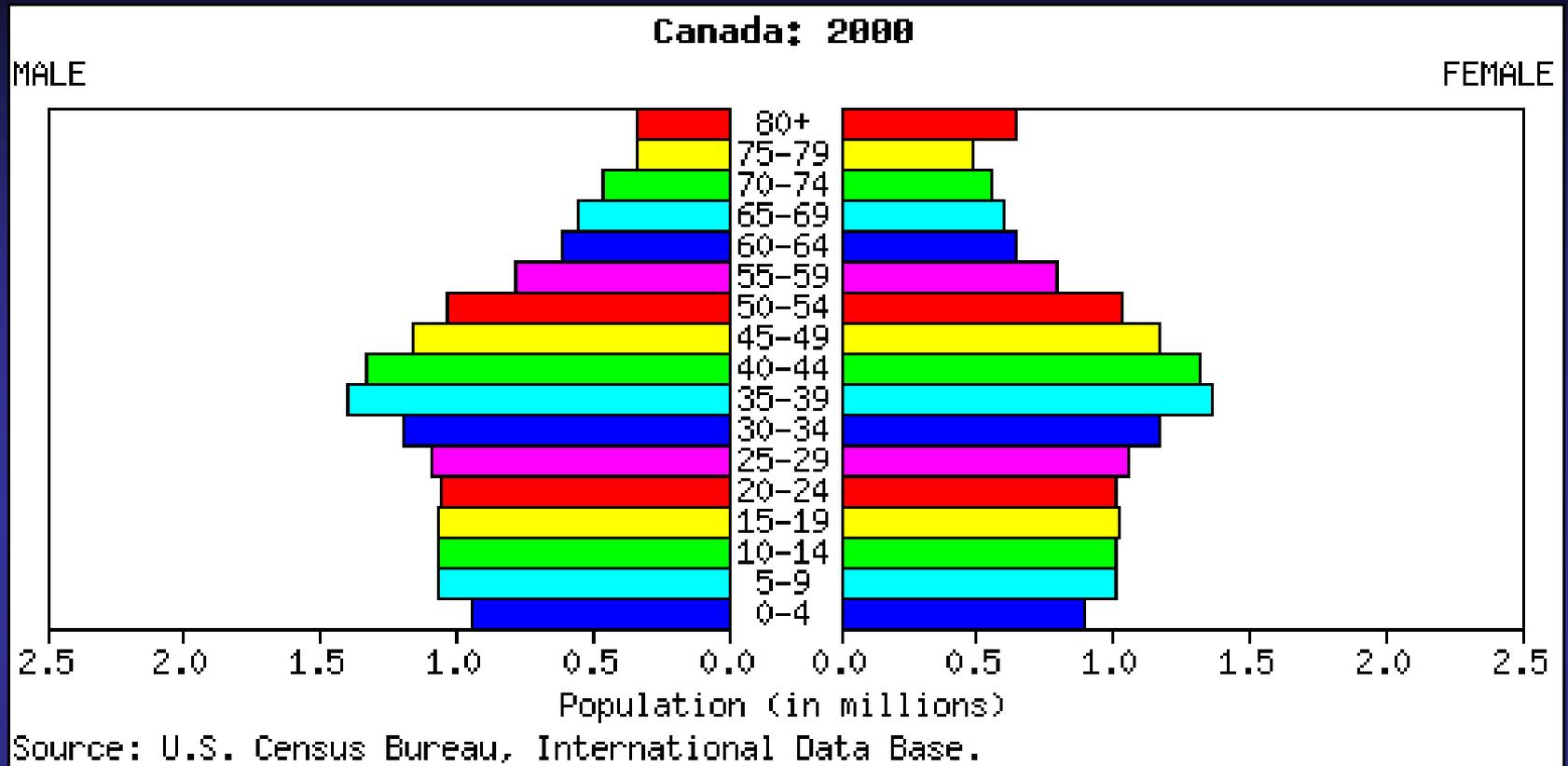
Why are many large Latin American cities found on the coast...not necessarily near rivers?

Hemispheres & World Population



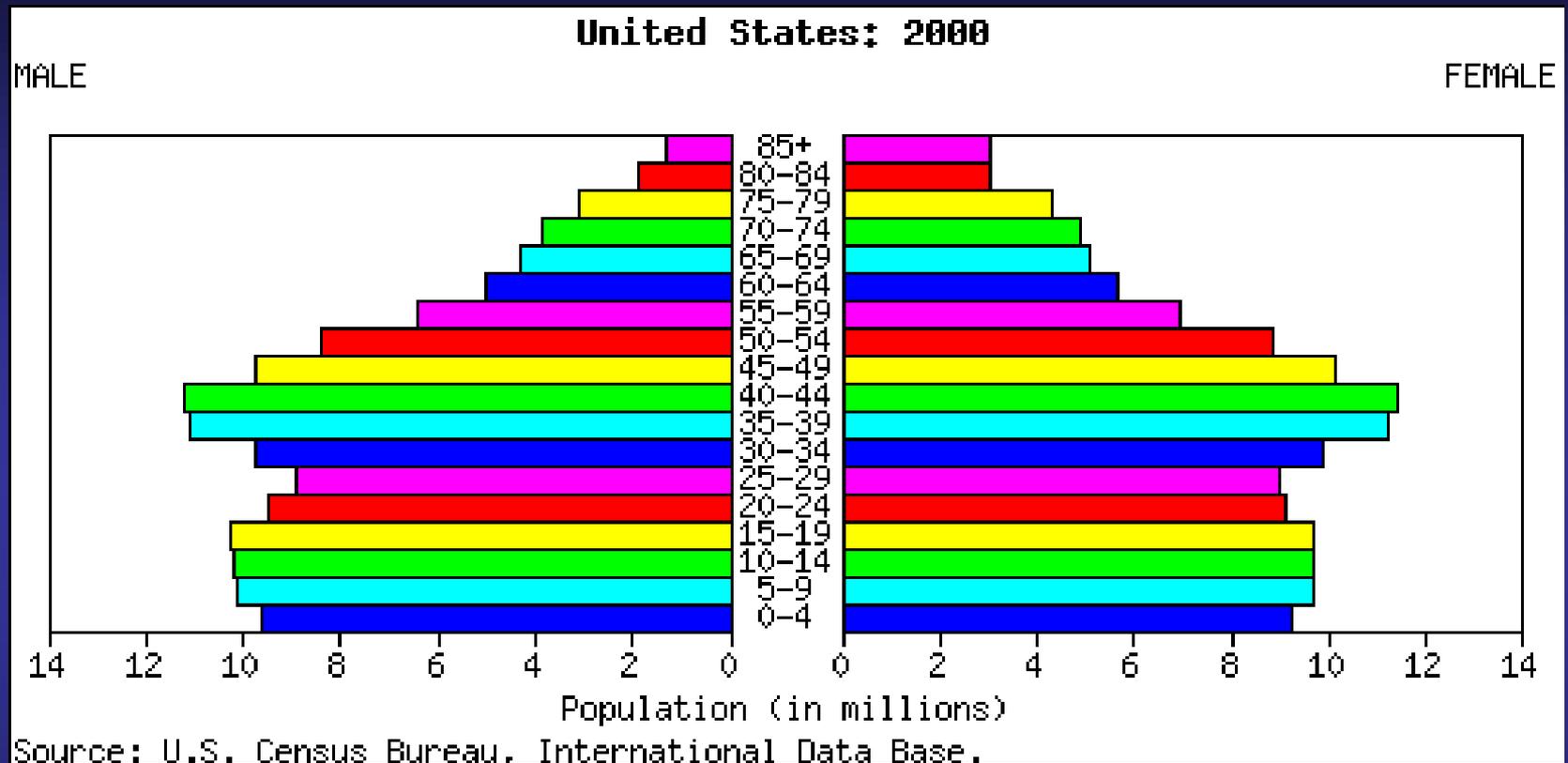
Why do most of the world's people live in the Northern Hemisphere?

Population Pyramids - Canada



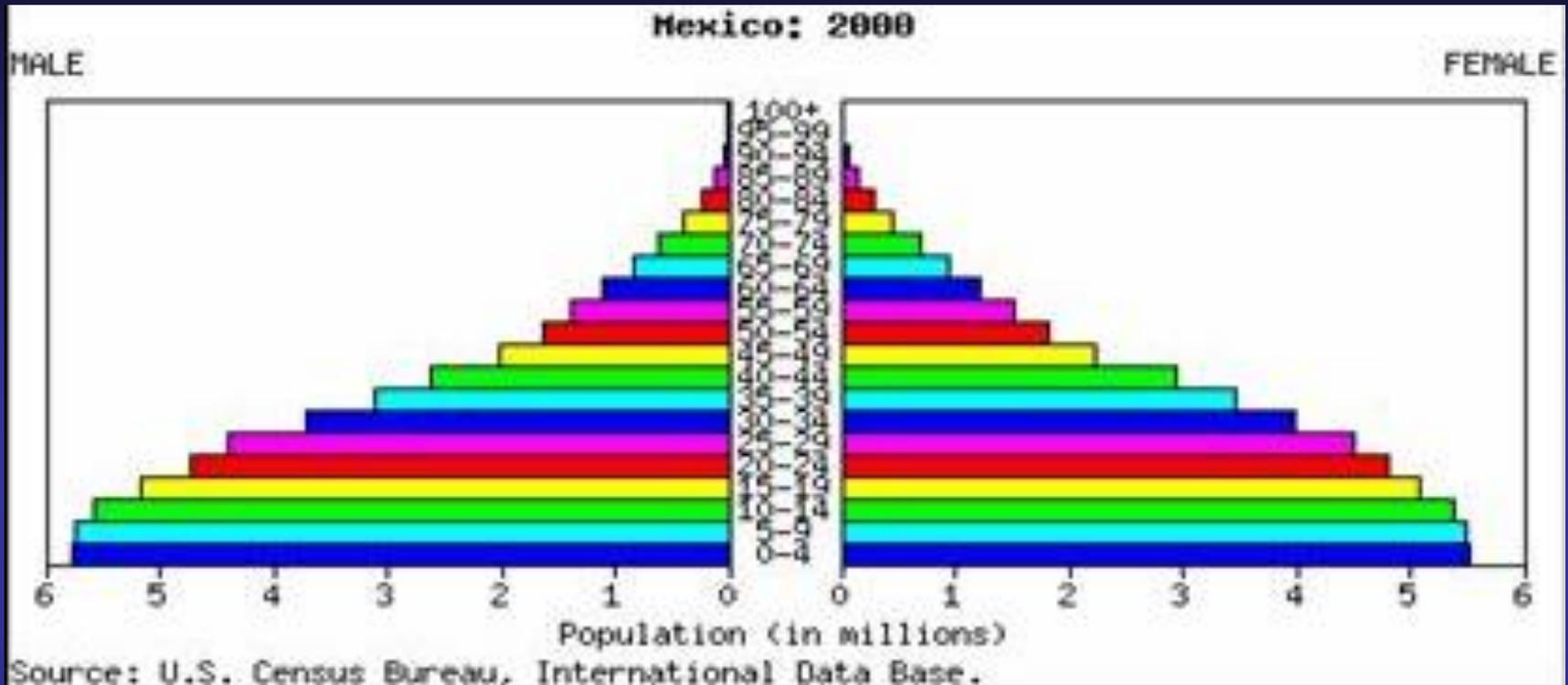
Which two statistics within a country's population do pyramids illustrate very well?

Population Pyramids – United States



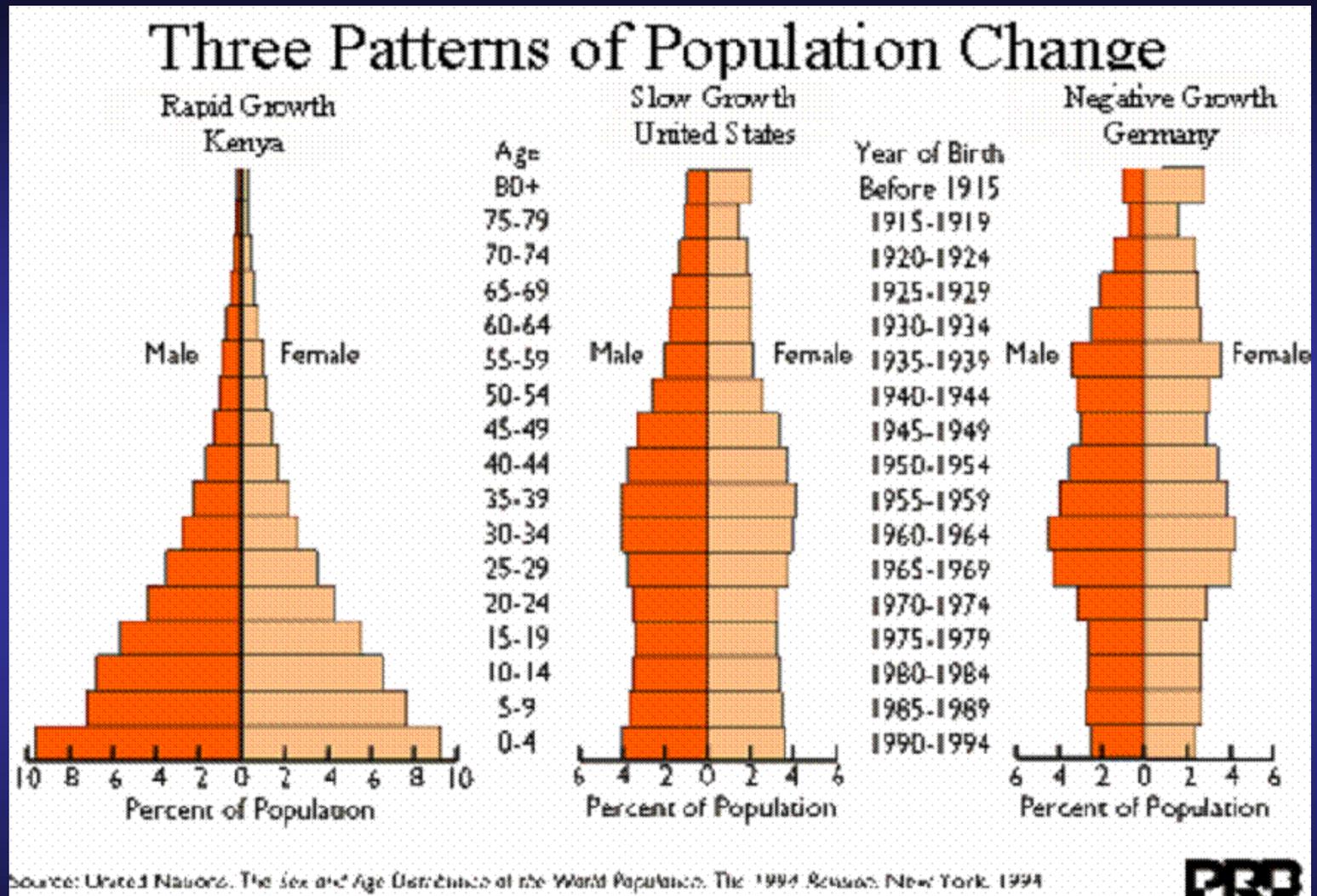
Which statistic *MOST* determines the shape of a country's population pyramid?

Population Pyramids – Mexico



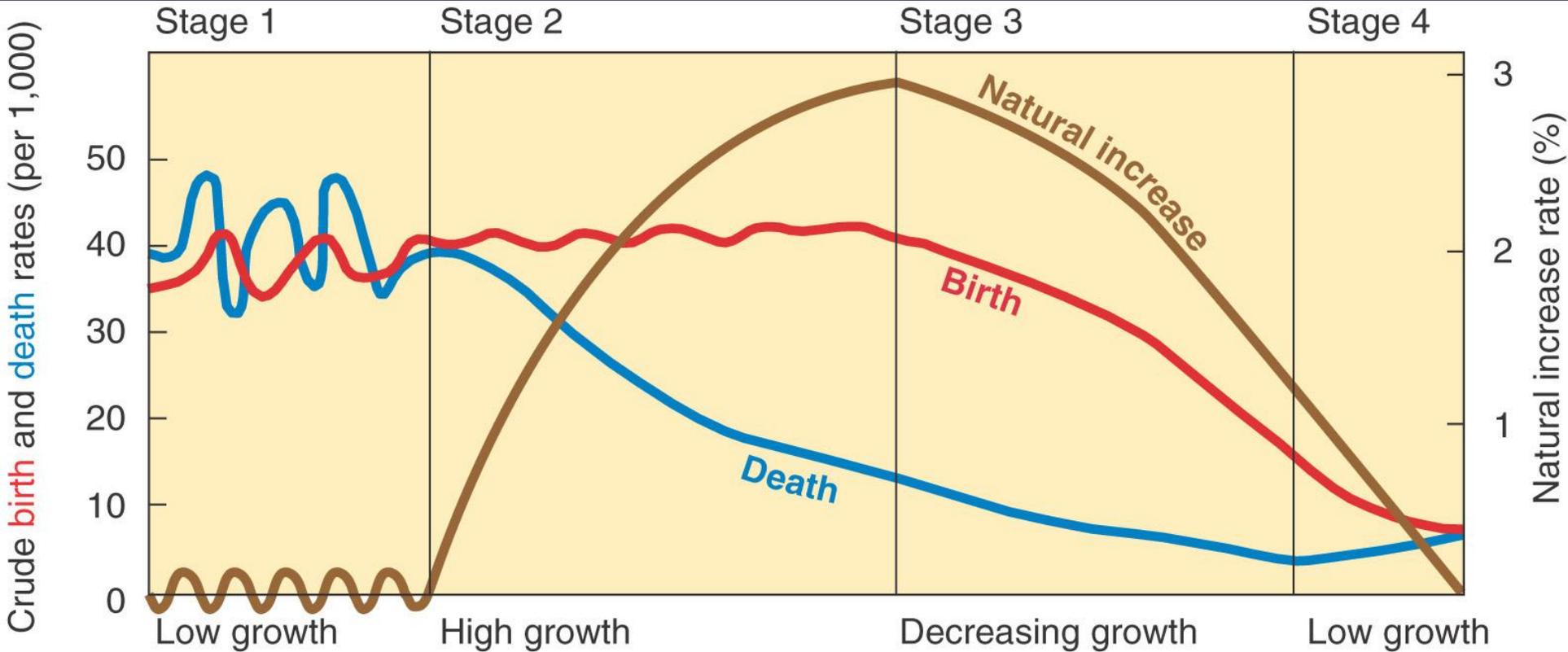
Use the pyramids to explain why MDC's like the US and Canada would have **higher death rates** than a LDC like Mexico?

Population Pyramids



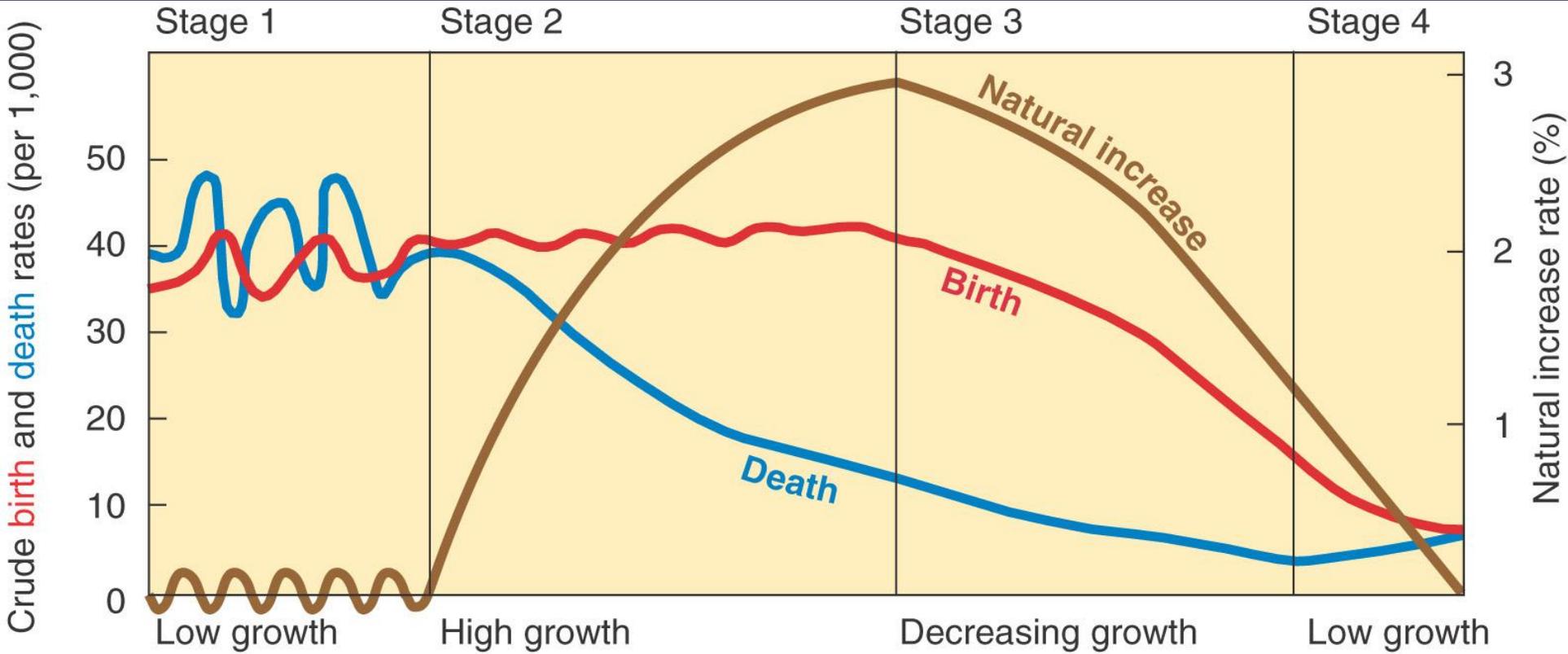
Describe what stage of the demographic transition each country represent.

The Demographic Transition



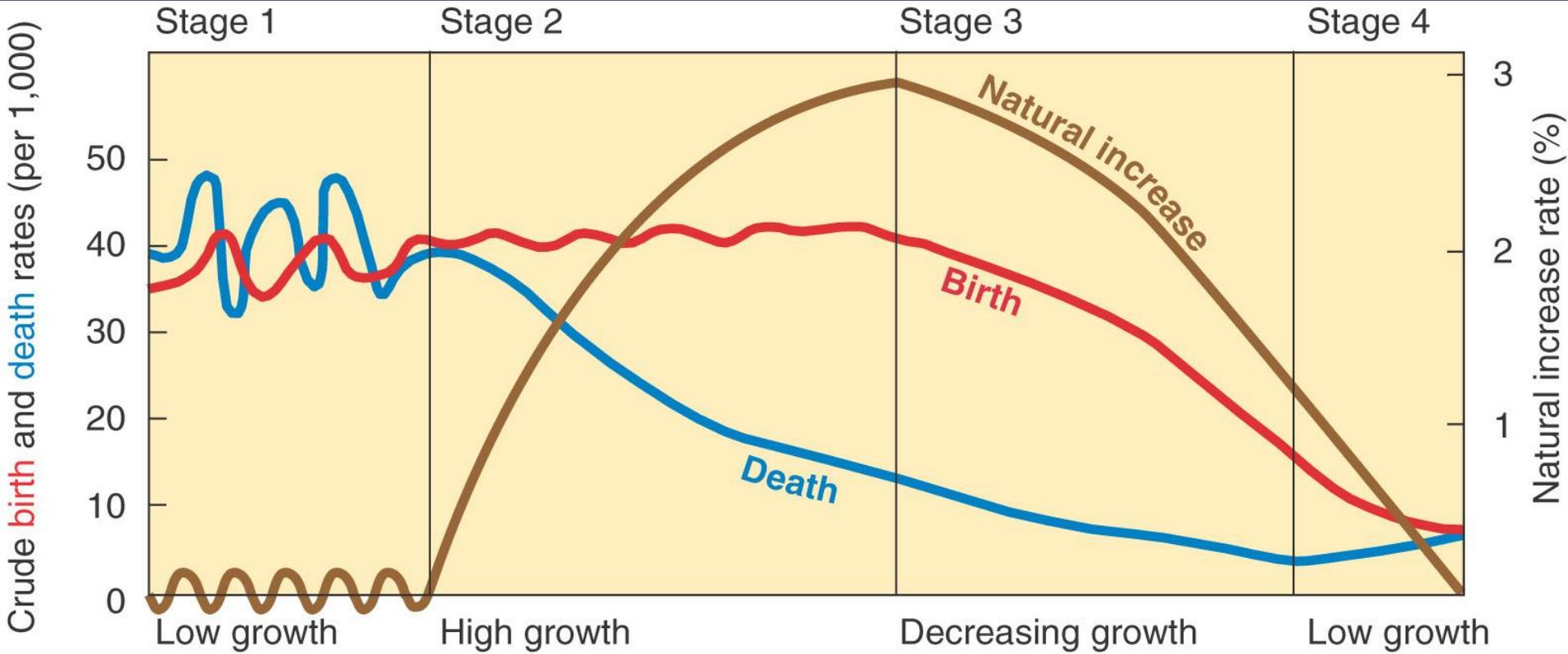
In what stage of the demographic transition would place the country of Japan? Explain

The Demographic Transition



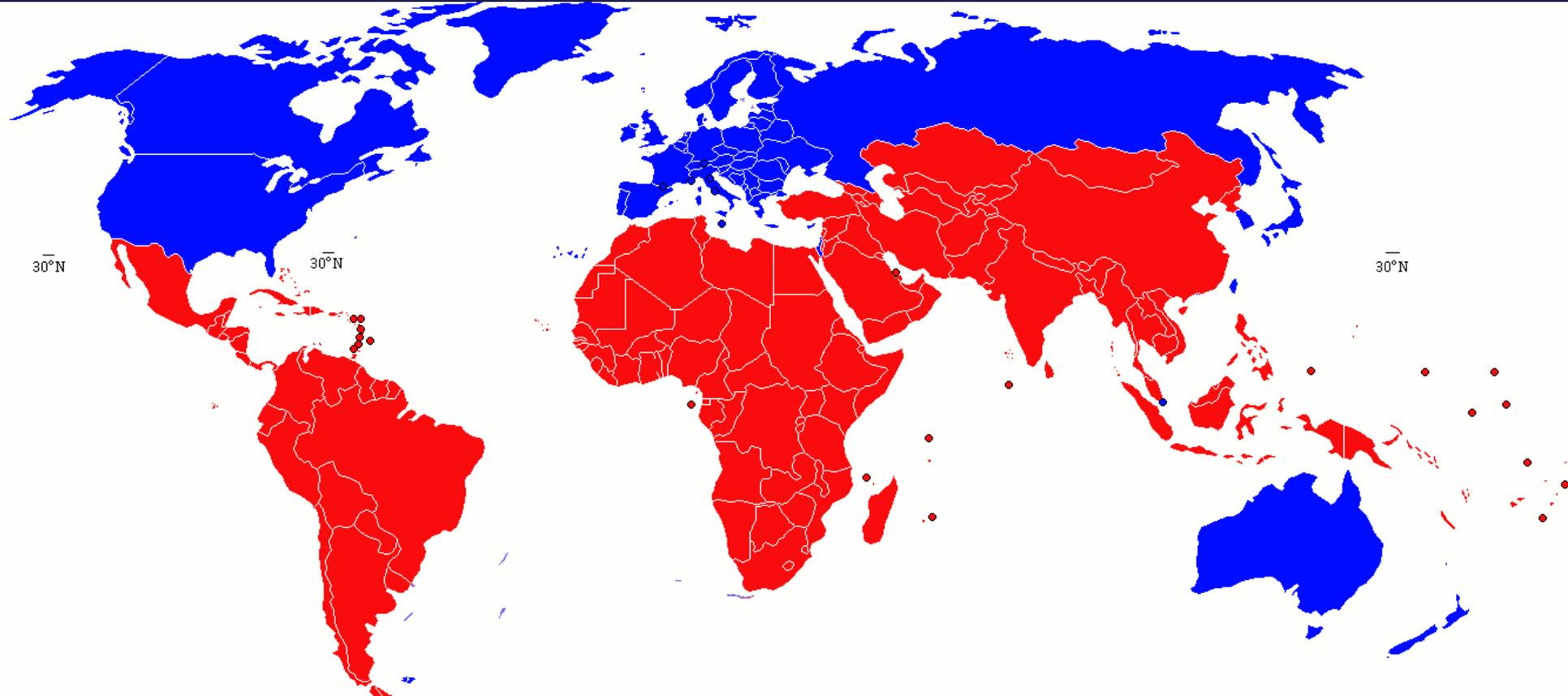
In what transitional stage would China be found?

The Demographic Transition



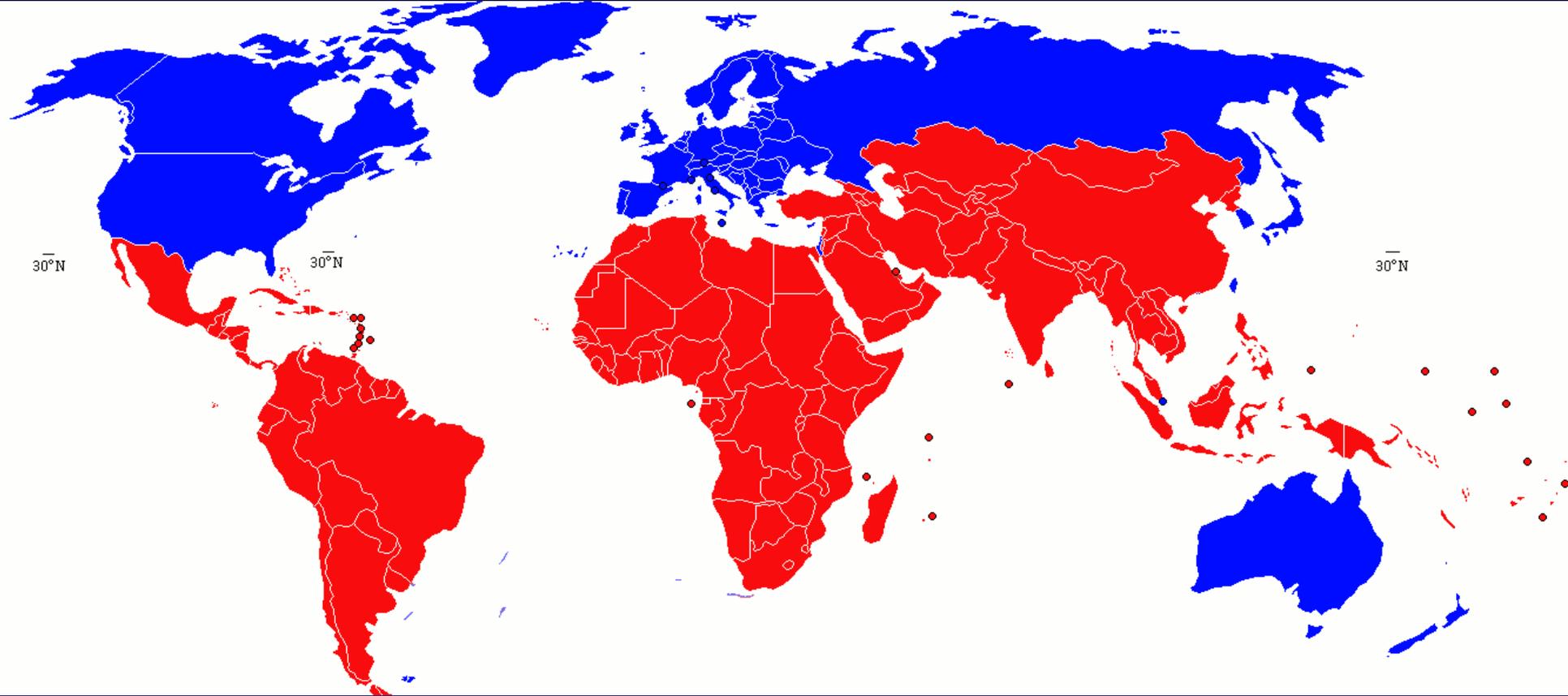
Which two stages are most alike? Explain

The North/South Divide



What does the North/South divide represent?

The North/South Divide



On what continents would you find the majority of poor nations?

Core/Periphery



According to this map, what is the difference between a "core" country and one located on the "periphery"?

Dependency Ratio

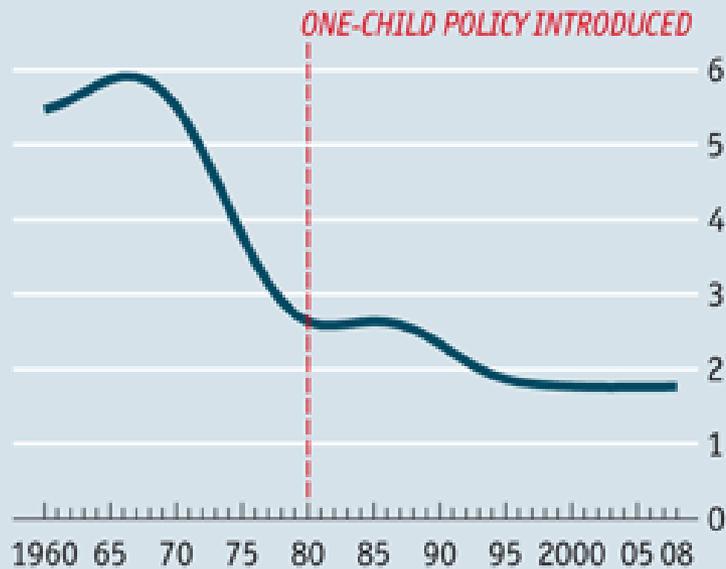


What do the people on the bottom portion of this picture represent? Who are the people on the top? What name might we give to this older group in the US?

China's One Child Policy

Disappearing act

China's fertility rate, live births per woman

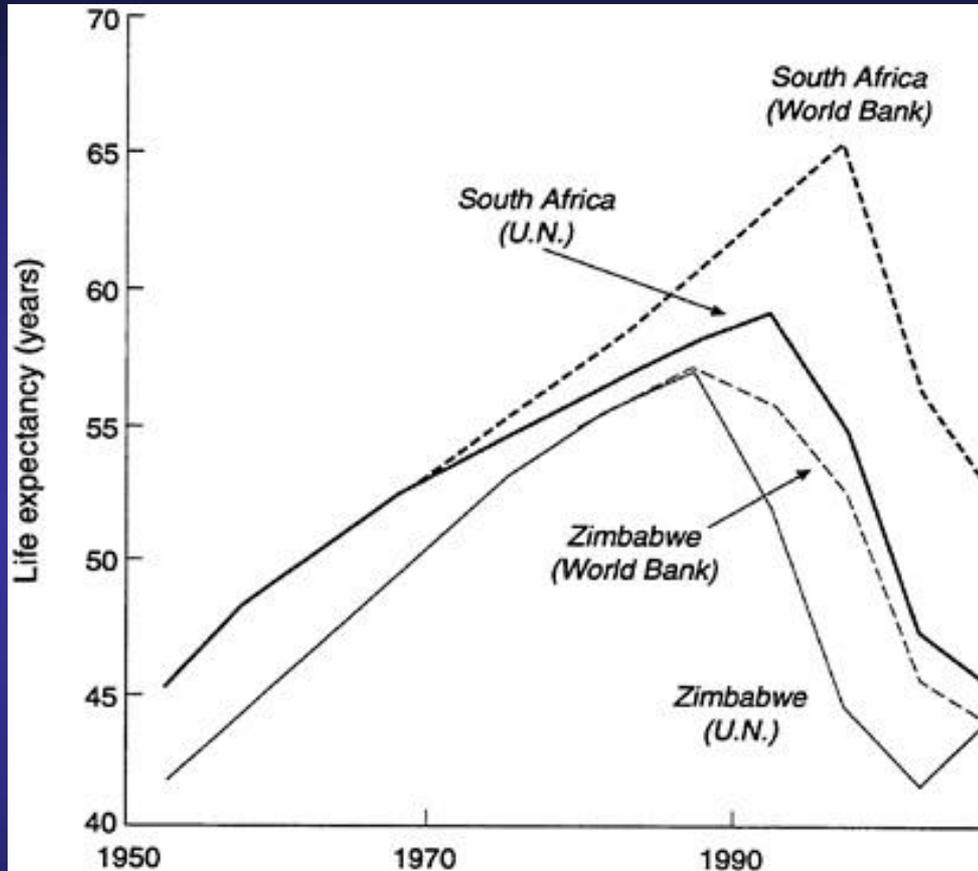


Source: World Bank



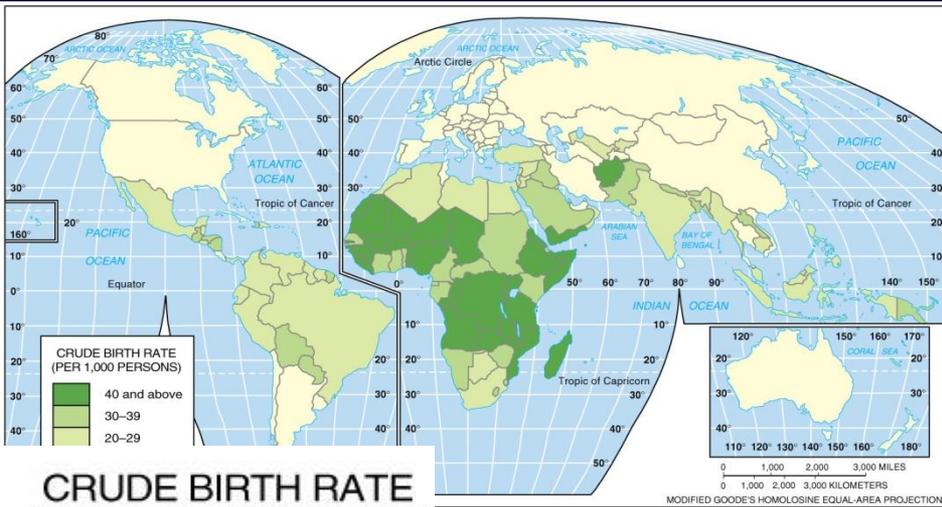
What effect did China's one child policy have on fertility rates?

Life Expectancy

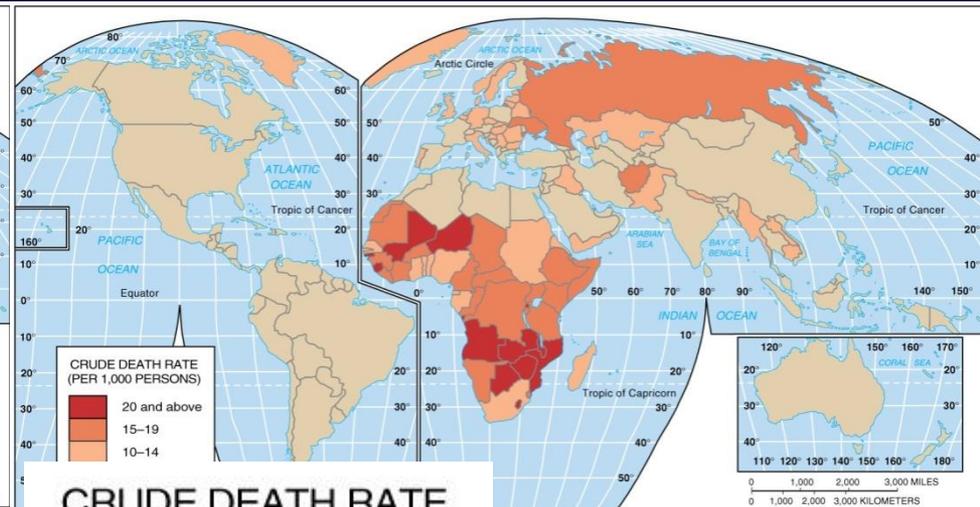
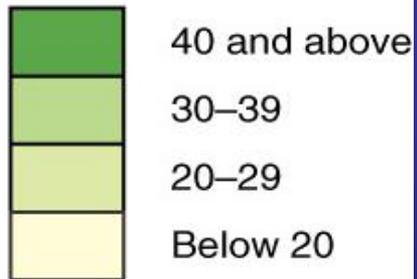


Why is life expectancy dropping in southern African countries so drastically?

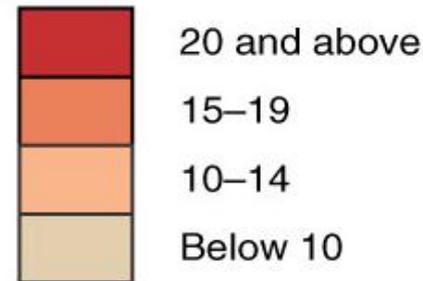
Crude Birth Rates/Crude Death Rates



CRUDE BIRTH RATE (PER 1,000 PERSONS)

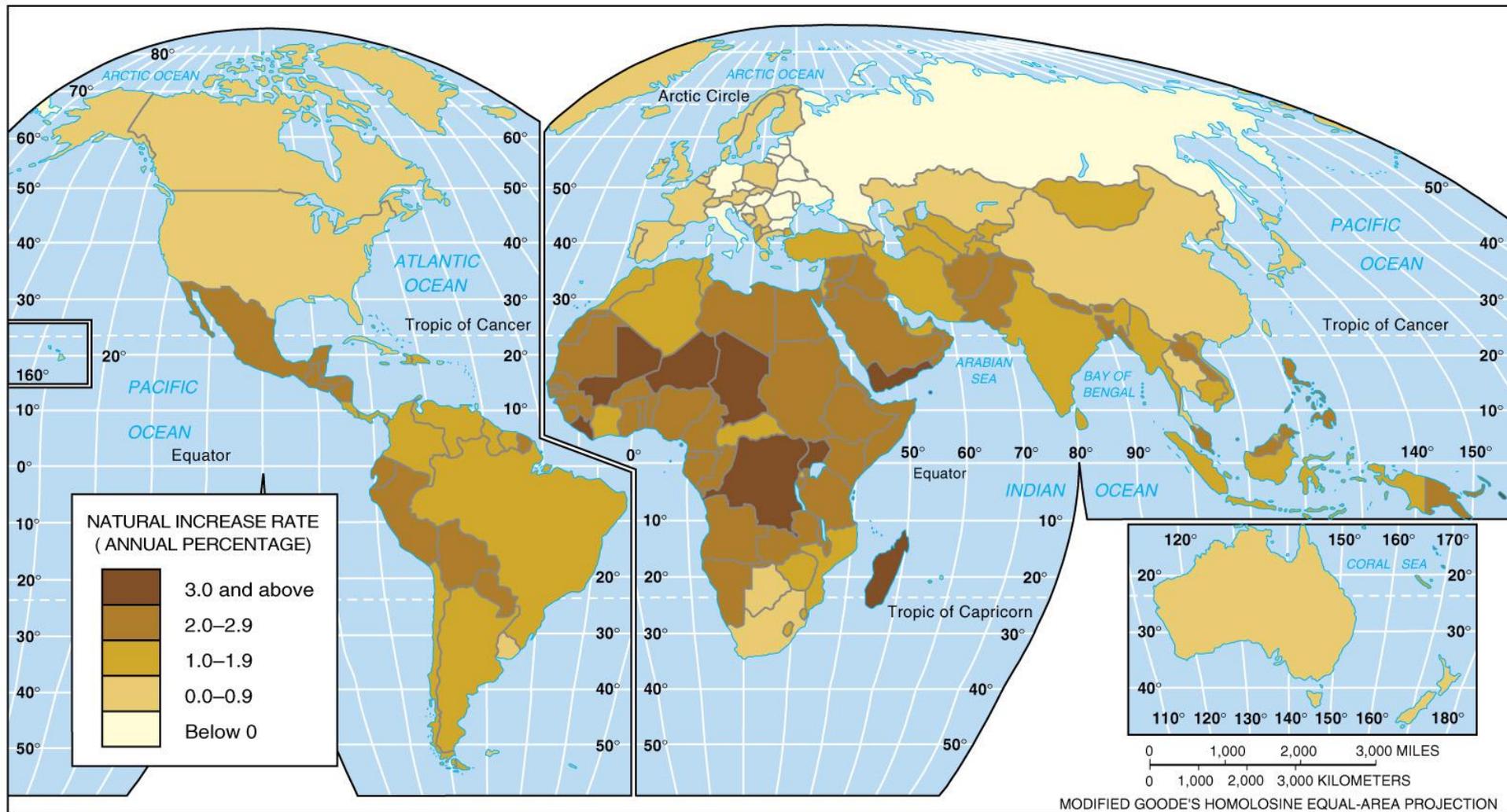


CRUDE DEATH RATE (PER 1,000 PERSONS)



Why do world CDR's show less variety than world CBR's?

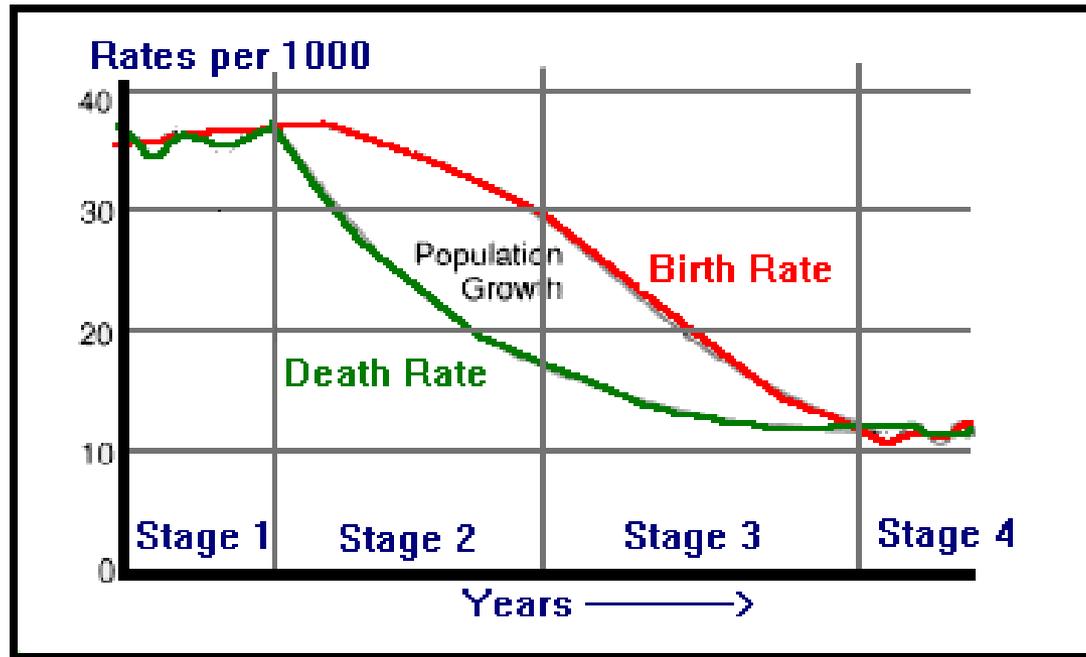
Natural Increase Rate



Where would you find the most countries in Stage 2 of the demographic transition? Explain why.

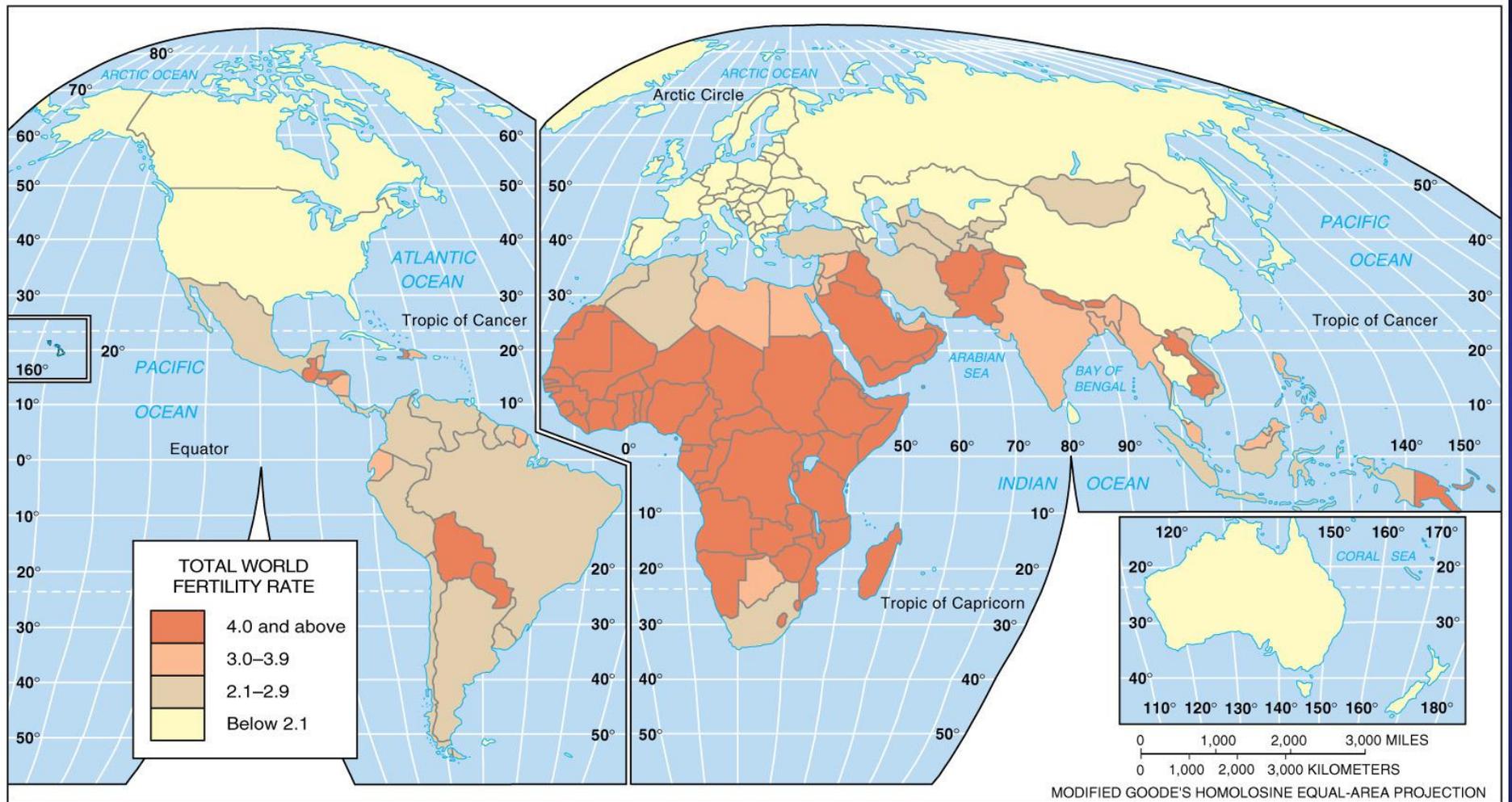
The Population Equation

The Demographic Transition



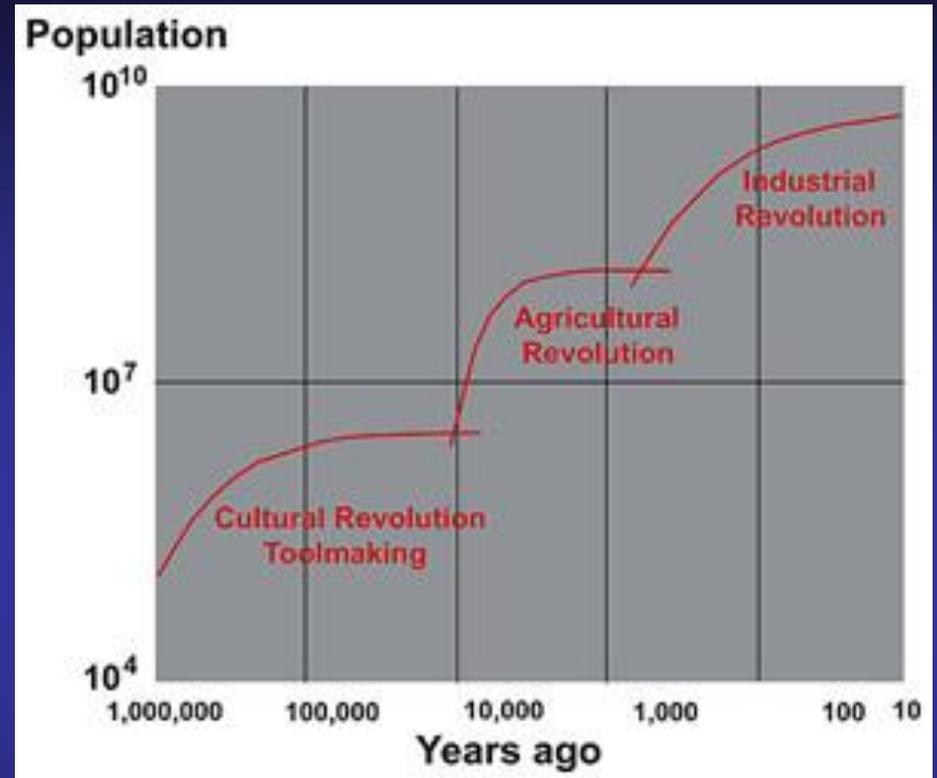
Besides CBR's and CDR's, what other factors must be considered when computing a country's future population?

Total Fertility Rates



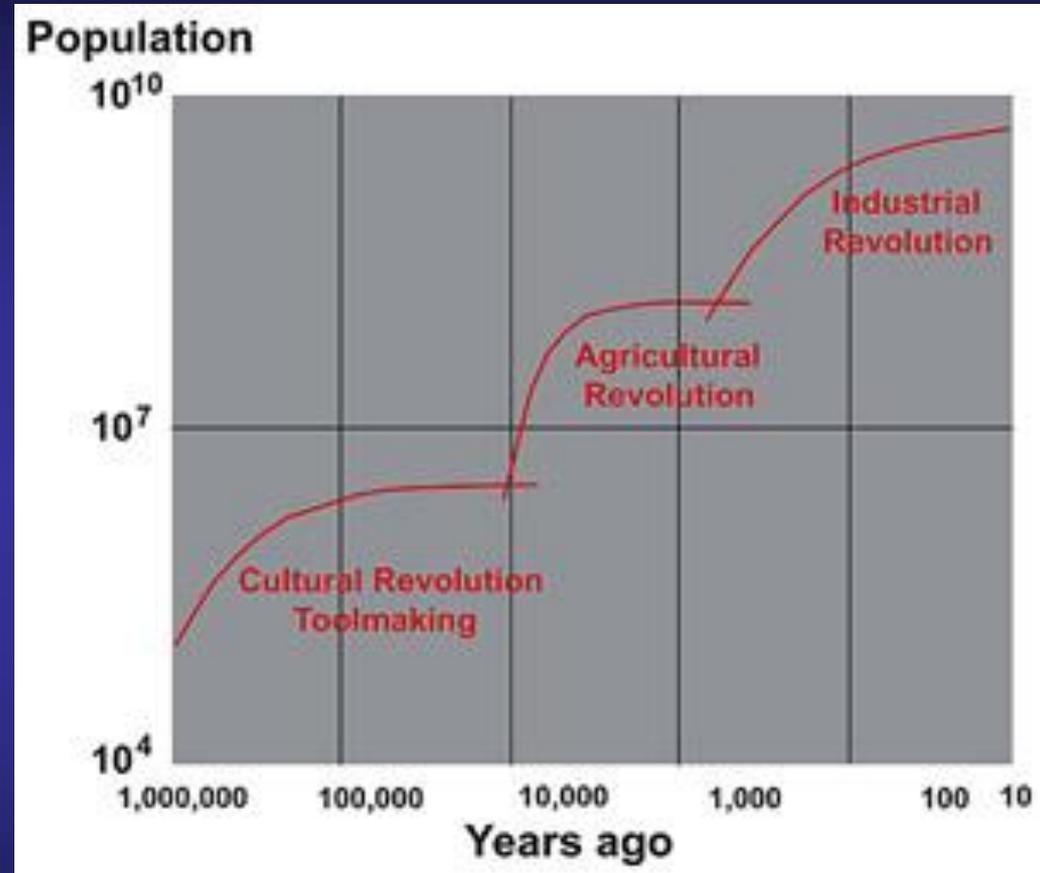
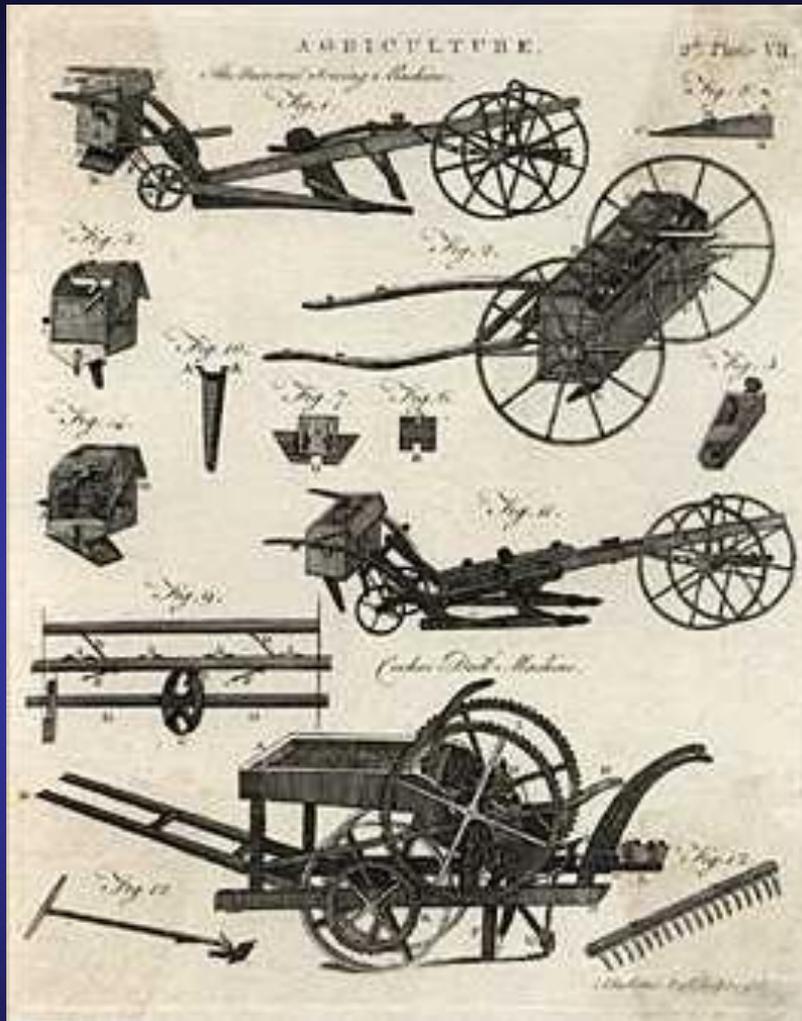
Where are the world's lowest and highest TFR's?

Population Growth



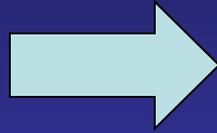
What occurred approximately 10,000 years ago that helped to increase world population?

Industrial Revolution & the NIR



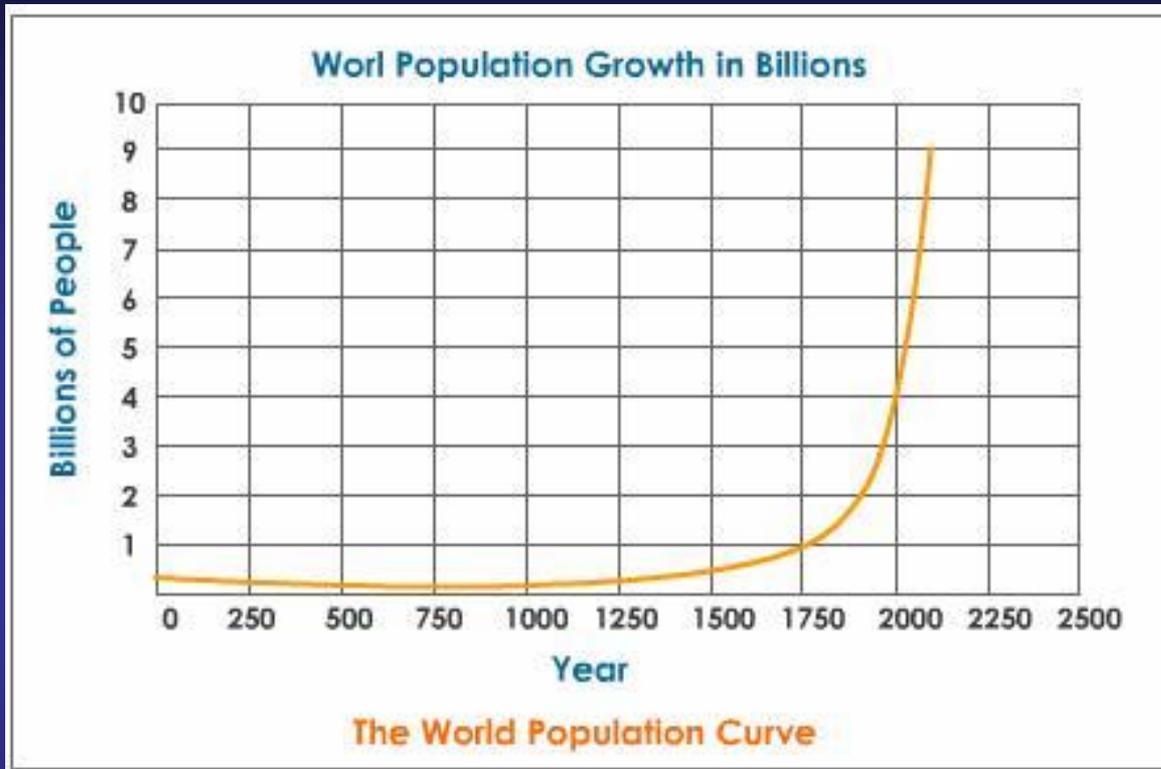
Explain what effect the Industrial Revolution had on the natural increase rate (NIR).

Medical Revolution & CDR's



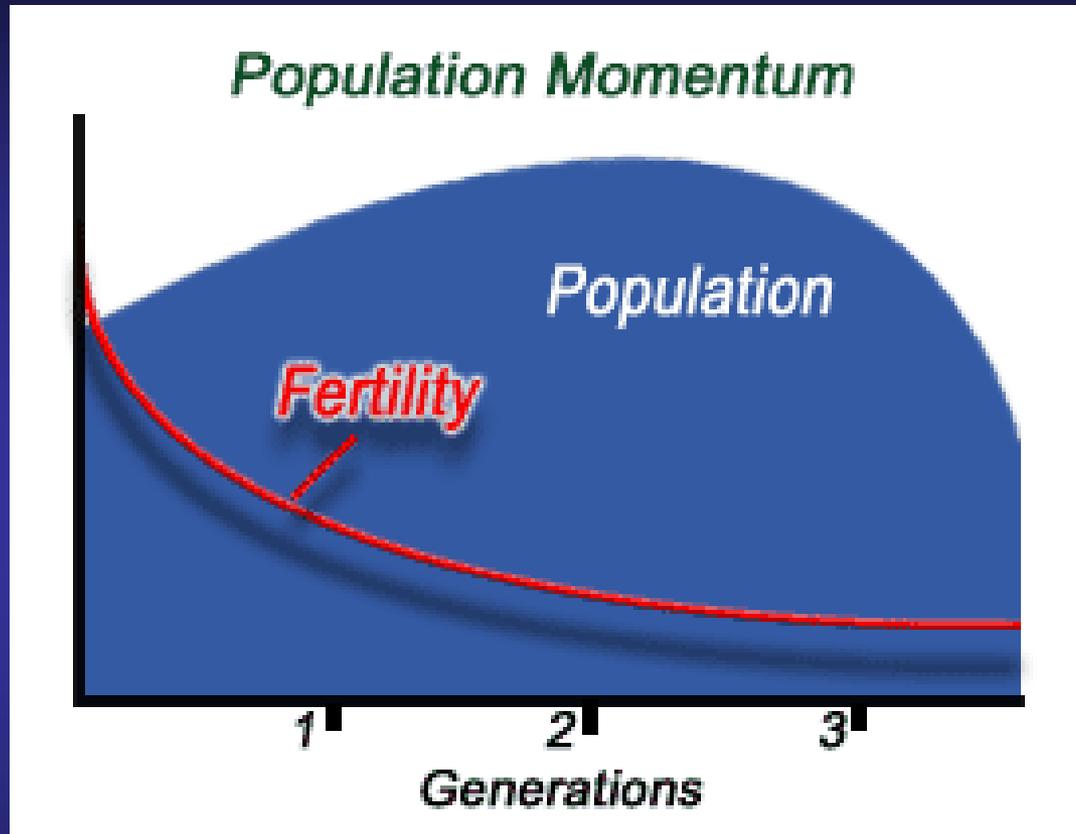
Explain how the medical revolution occurred in LDC's during the late 20th century.
What was the result?

World Population Growth



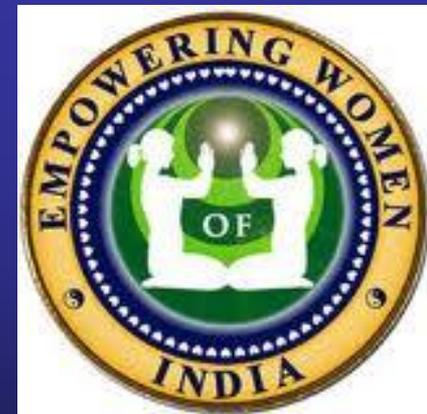
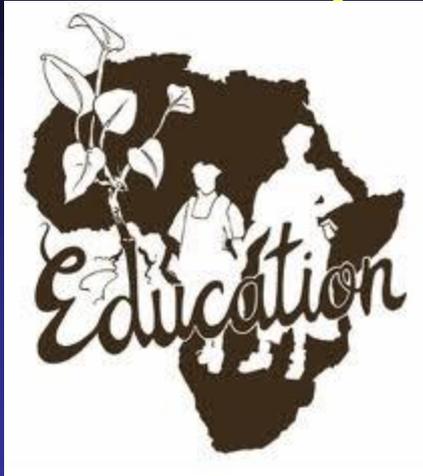
When did world population reach the 1,000,000 mark?

Demographic (hidden) Momentum



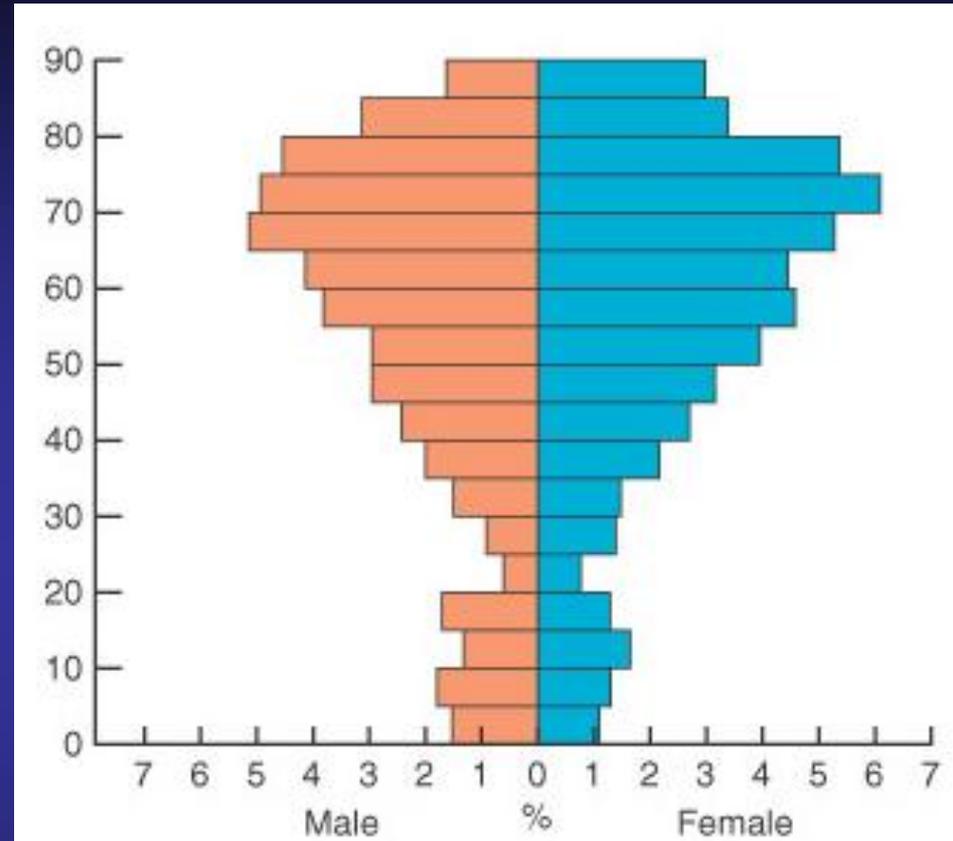
Explain why a country's population might continue to grow even though it's TFR is declining.

Total Fertility Rates/Population Growth



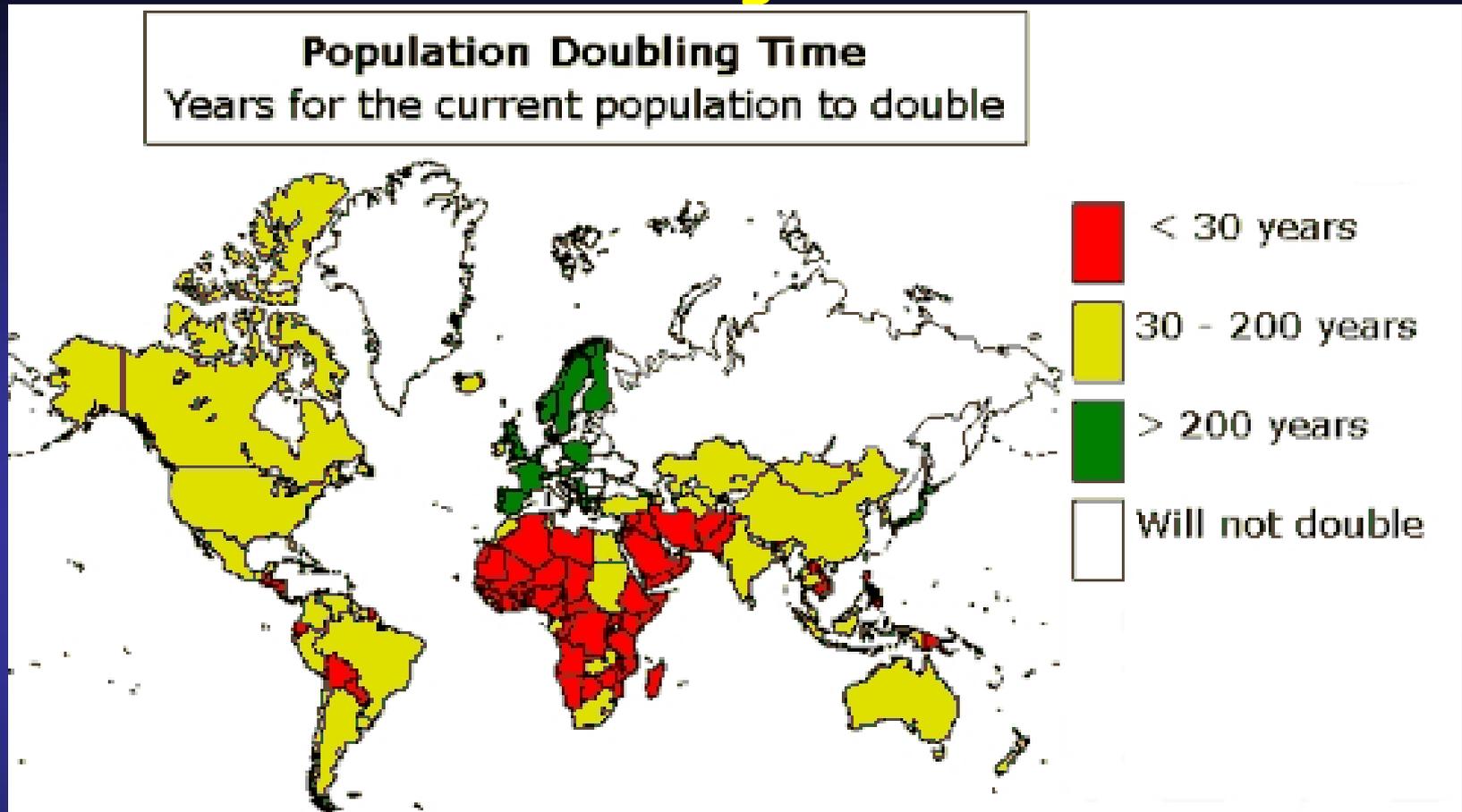
How has the empowerment of women changed the total fertility rates of many LDC's?

Population Pyramid of Naples, Florida



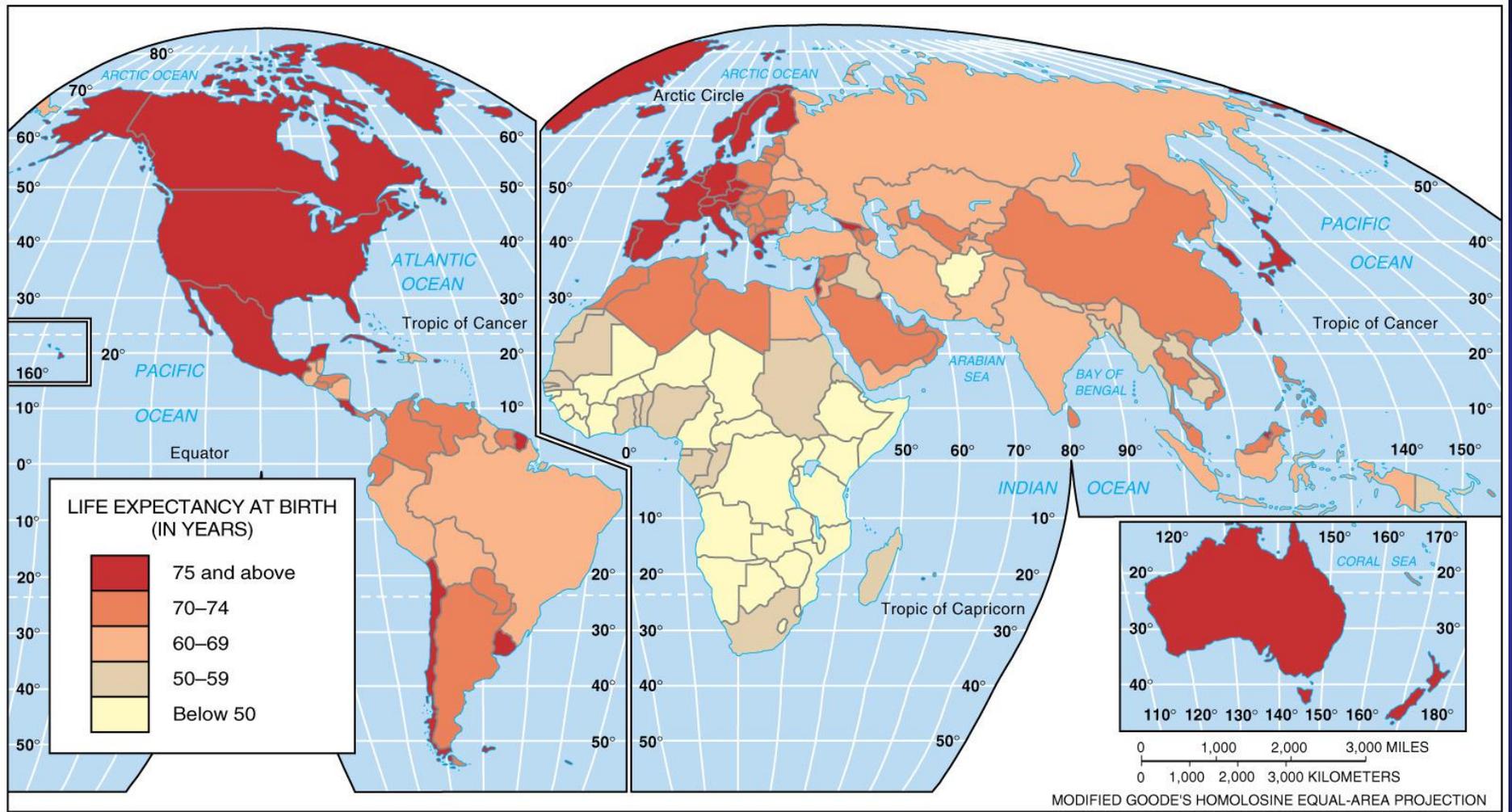
Describe the demographic character of Naples, Florida

Doubling Time



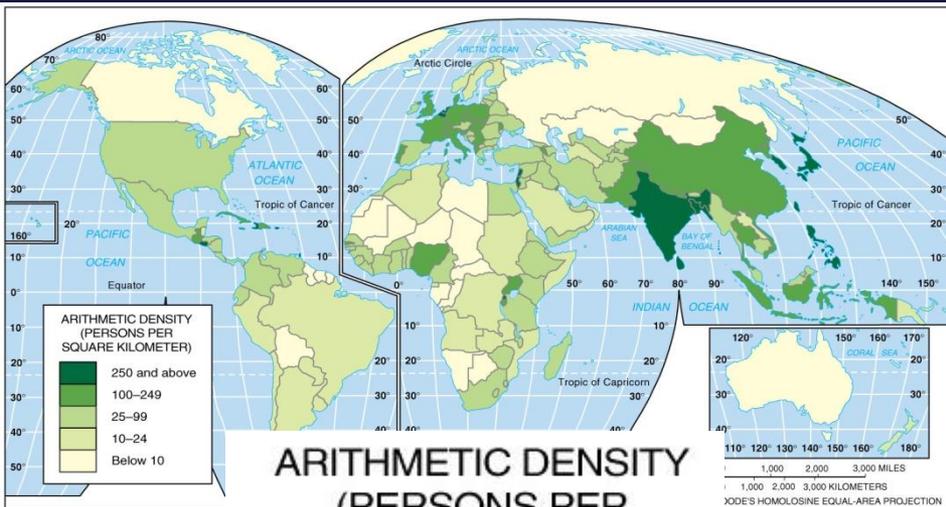
Explain what "doubling time" is and where this is taking place at the fastest rates.

Life Expectancy at Birth

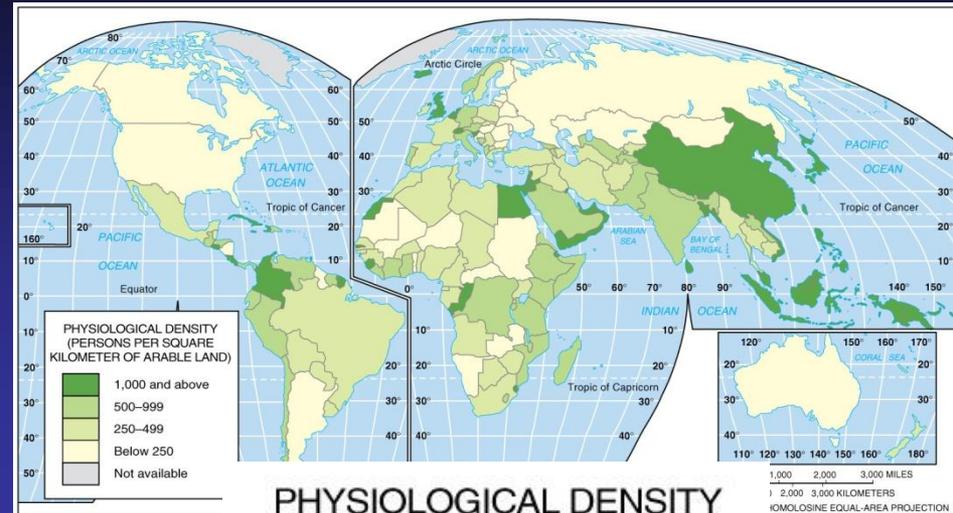
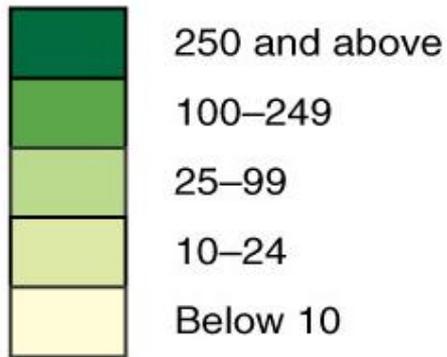


Why is life expectancy so low in Africa?

Arithmetic Density/Physiologic Density



ARITHMETIC DENSITY
(PERSONS PER SQUARE KILOMETER)



PHYSIOLOGICAL DENSITY
(PERSONS PER SQUARE KILOMETER OF ARABLE LAND)



What is the difference between Arithmetic & Physiologic Density?