DEMOGRAPHIC TRANSITION

Week 4

1. Warm-up

Complete the gaps with any suitable answers. Then listen and compare. <u>https://www.youtube.com/watch?v=nonCD5GR9bw</u> 1.04 – 2.07

- 1. The demographic transition model shows the interactions between three over time: birth rate, death rate, and the rate of natural increase.
- 2. If a country's birth rate is 66, that means in a particular year.
- 3. If a country has a birth rate of 66 and a death rate of 25, then its rate of natural increase
- 4. The world's current rate of natural increase is approximately%.

2. Brainstorm what you know about demographic transition:

- What demographic changes take place as a country develops from a pre-industrial to an industrialized economic system?
- How many stages are there in the transition model?
- What can the model predict?

Draw the graph of the demographic transition model.

Vocabulary for graphs - choose a few expression and use them in describing your picture.

fluctuate	at high level	remain high / low	fall	grow	rapid drop
vary	at low level	approach zero	drop	rise	moderate growth
level off		reach a peak	decrease	increase	low increase
			decline		

LISTENING: Demographic Transition and Population Pyramids

https://www.youtube.com/watch?v=nonCD5GR9bw

- **1. Watch the first part of the video and decide whether the statements are true or false.** 2.14 4.30
 - A) Stage 1: In the first stage birth and death rate vary.
 - B) Stage 2: The drop of the death rate is due to improvements in education.
 - C) Stage 3: Nations in stage three see children as a necessity.
 - D) Stage 4: Natural increase of population approaches zero.
 - E) Stage 5: Shrinking population means people have shorter lives.
 - F) Natural increase in stage 4 resembles natural increase in stage 1.

2. Population pyramids. 4.38

Use the key words below to write an explanation what a population pyramid is.

It is a

demonstrates displaying country's population age and gender graphic device groups two-sided graph structure

How would you describe the present population pyramid of your country?

Draw population pyramids representing 4 stages of the model.

1. 2. 3. 4.

3.Complete the table below. 4.30 – 5.50

1. A population pyramid is this type of graph	
2. This characteristic of a pyramid shows a lot of information	
3. Wide bottom indicates high	
4. Sharply pointed end of a pyramid means high	
5. If the top of a pyramid is thick, this is high	

SUMMARY OF THE THEORY In pairs describe the meanings of these words.

shrinking population	sanitation	life sp	pan	stagnant dev	elopment
subsistence agriculture	contracep	otion	econon	ic burden	imbalance

Then put parts A – D in the right order.

A During this stage there are both low birth rates and low death rates. Birth rates may drop to well below replacement level, leading to a shrinking population. As the large group born during stage two grows old, it creates an economic burden on the shrinking working population. Death rates may remain consistently low or increase slightly due to increases in lifestyle diseases because of low exercise levels and high obesity and an aging population.

B Death rates drop rapidly owing to improvements in food supply and sanitation, which increase life spans and reduce disease. These changes usually come about due to improvements in farming techniques, access to technology, basic healthcare, and education. Without a corresponding fall in birth rates this produces an imbalance, and the countries in this stage experience a large increase in population.

C Birth rates fall as a result of access to contraception, increases in wages, urbanization, a reduction in subsistence agriculture, an increase in the status and education of women, a reduction in the value of children's work, an increase in parental investment in the education of children and other social changes. Population growth begins to level off.

D In this stage death rates and birth rates are high and roughly in balance. Population growth is typically very slow. Unless the society develops new technologies to increase food production (e.g. discovers new sources of food or achieves higher crop yields), any fluctuations in birth rates are soon matched by death rates.

LISTENING: Hans Rosling: Global population growth, box by box

https://www.ted.com/talks/hans_rosling_on_global_population_growth

1. Vocabulary: Which well-known supermarket is this - [ai'kia]?

2. Professor Rosling talks about people in different countries and their dreams about what they want to buy. What do you think these wishes are?

- In developing countries:
- In newly industrialized countries/emerging economies:
- In the richest countries:

3. In your opinion, what can stop the global growth of the world population?

4. Read the extract form the talk and explain how you understand the underlined phrases.

And what will happen in the future? Well, I'm going to project into 2050. I was in Shanghai recently, and I listened to what's happening in China, and it's pretty sure that they will catch up, just as Japan did. And these lower or middle income countries, the emerging income countries, they will also forge forwards economically. And if, but only if, we invest in the right green technology — so that we can avoid severe climate change, and energy can still be relatively cheap — then they will move all the way up here. And they will start to buy electric cars. This is what we will find there.

So what about the poorest two billion? What about the poorest two billion here? Will they move on? Well, here population [growth] comes in because there [among emerging economies] we already have two to three children per woman, <u>family planning</u> is widely used, and population growth is coming to an end. Here [among the poorest], population is growing. So these [poorest] two billion will, in the next decades, increase to three billion, and they will thereafter increase to four billion. There is nothing — but a nuclear war of a kind we've never seen — that can stop this [growth] from happening. Because we already have this [growth] in process. But if, and only if, [the poorest] get out of poverty, they get education, they get improved <u>child survival</u>, they can buy a bicycle and a cell phone and come [to live] here, then population growth will stop in 2050.

4. Compare your answers with the presentation.

- What does the professor say that people want?
- What is his idea of limiting the growth of the world population?
- How far do you agree with him?

More of his arguments here – watch for homework Will saving poor children lead to overpopulation? <u>https://www.youtube.com/watch?v=BkSO9pOVpRM</u>

HOMEWORK: Demographic Transition - Stage One Complete the missing terms. There are three extra words that will not be needed.

exceeding	determined	d fluctuat	ed c	ontribution	morta	lity	deaths
	nonexistent	siblings	insuranc	e edu	cation	increase	d

During this stage, the society evolves in accordance with Malthusian paradigm, with population essentially 7..... by the food supply. Any fluctuations in food supply (either positive, for example, due to technology improvements, or negative, due to droughts and pest invasions) tend to translate directly into population fluctuations. Famines resulting in significant 8..... are frequent.

sources

http://www.i-study.co.uk/Students/IB%20Population%20SoW.html https://en.wikipedia.org/wiki/Demographic_transition E. Čoupková, English for Geographers Mr Condom in Thailand - recommended to watch https://www.ted.com/talks/mechai_viravaidya_how_mr_condom_made_thailand_a_better_place/transcript?language=e n#t-600010