

## LECTURE 14: GROWTH AND DEVELOPMENT

- I. The Good News
  - a. The good news is that it does not have to be this way.
    - i. Economic growth solves most of the problems of the developing world. Greater material wealth can pay for better roads, sanitation, electricity, education, and so on.
    - ii. South Korea is a good example of this. In the 1950s, it was an incredibly poor country. Now it is one of the wealthiest countries in the world (with incomes comparable to that of the average of the European Union).
  - b. Growth is not a *zero-sum game*: if one group becomes wealthier, other groups don't have to become poorer.
    - i. This is because long term growth comes from greater efficiency, primarily through technology, not from reallocation.
    - ii. Because it's not a zero-sum game, we want all economies (both rich and poor) to grow.
    - iii. But we'd also like stable growth. Long run growth is great, but that's in the long run. In the meantime, people would like to keep their jobs and live lives stable enough so they can plan.
    - iv. Uncertainty is misery, too.
  - c. Not only is growth not a zero-sum game, we don't need a lot of growth to make a big difference.
    - i. *Rule of 70*—remember this? The number of time periods it requires to double a value roughly equals 70 divided by how fast it's growing.
    - ii. Suppose an economy's GDP grows at 7% a year. That means it takes  $(70/7=10)$  10 years for the GDP to double.
    - iii. China's growth rate in 2016 was 6.7%; India's was 7.1%.
    - iv. The US economy grew at 1.6% in 2016; how long would it take our GDP to double at that rate?
  - d. There's yet more good news: poor countries have an easier time growing quickly compared to rich countries.
    - i. It all boils down to decreasing marginal benefit. The benefit in this case is productivity.
    - ii. Labor in rich countries tends to have a lot of capital and thus their workers are quite productive (it's one of the reasons wages

are high). Giving them more capital increases their productivity, but not by much.

- iii. But labor in poor countries has little capital and thus cheap labor. Just a small amount of capital creates huge productivity gains. Investment and efficiency follow.
  - iv. It's the difference between getting your first laptop and getting your eighth; which makes you more productive?
  - v. As capital flows into the developing country, wages rise and the marginal productivity of capital falls. Eventually, poor countries catch up to rich countries.
  - vi. China's the current poster-country of the theory of convergence. Its growth rate has been tremendous but lately wages have been increasing. It's no longer the low hanging fruit of production.
  - vii. There are other examples of countries coming up quickly from very low levels of wealth: Germany and Japan after WWII and South Korea, Hong Kong, Singapore, and Taiwan after the Korean War.
- e. So why aren't all countries wealthy? It's complicated so let's begin with a quick survey.

## II. A Quick Survey

### III. Economic levels

- a. There's actually been a fair amount of progress over the past few decades, so much that we should stop thinking about "rich" vs "poor" countries. There are many countries that have lower incomes than the U.S. or Europe but these countries are markedly better off than they were a few decades ago.
- b. Instead, development expert Hans Rosling encouraged us to think in terms of "levels" of development based on how much income per day the average person spends.
  - i. Level 1: Less than \$2/day (about 1 billion people are here)
  - ii. Level 2: \$2 to \$8/day (about 3 billion people are here)
  - iii. Level 3: \$8 to \$32/day (about 2 billion people are here)
  - iv. Level 4: Over \$32/day (about 1 billion people are here)
- c. When people think of development, they often think in terms of level 1 vs level 4 but most people are in between and there's a big difference between level 1 and level 2.
  - i. The [World Bank](#) now organizes countries along these levels for those curious where a particular country lands.

- d. An important theme is that two seemingly contradictory ideas about economic development are true.
  - i. *The world is getting richer.* Less than \$2/day used to be the rule in the 1960s. Now it is the exception. The vast majority of people live lives better than their parents or grandparents and it's wrong to discount that success.
  - ii. *The world is still "poor."* When plurality of people live in level 2, that's better than living in level 1 but there's still a lot of room for growth. Going from extreme poverty to just poverty is nice but it's still poverty. We want everyone to be in level 4. The question is: how?

IV. The Bad News: Necessary vs Sufficient

- a. *Necessary*: required for something to happen
- b. *Sufficient*: all that's needed for something to happen
- c. While convergence is definitely true, it's conditional on other necessary factors. While all these factors are needed, none of them in isolation is sufficient.

V. Necessary conditions

- a. There's a lot of debate about what's needed to trigger convergence but here's a list suggested by the recipient of the 1998 Nobel Prize in Economics, Amartya Sen:
  - i. *Political freedoms.* Countries need free and fair elections as well as government transparency. This also includes cultural aspects such as equal treatment and respect.
  - ii. *Economic freedoms.* Citizens need freedom of opportunities which includes free access to credit (borrowing money).
  - iii. *Quality of life freedoms.* Society needs a social safety net, included basic access to health care, shelter, and food. In order to act on the other two freedoms, people need to be free to live securely.

