

COURSE OVERVIEW & INTRODUCTION TO ECONOMIC DEVELOPMENT

EE 462 Development Macroeconomics

About the Instructor

- Name: Phatta Kirduang
- Education:
 - B.A. (Economics), McGill University, Canada
 - M.A. (Economics), University of British Columbia, Canada
 - Ph.D. (Applied Economics), University of Minnesota, USA
- Fields of interest: Health economics, Development economics, Population studies
- Contact info: phatta@econ.tu.ac.th; Office: Rm 15 (60th anniversary annex), Faculty of Economics
- Office hours: By appointment

Students' Background?

- Please introduce yourself:
 - Name & Nickname
 - Which year of the program are you at?
 - What makes you interested in development economics?
 - Have you taken EE461?
 - What do you expect from this class?
 - Any past experience with development field?
 - What's your future plan (particularly for 4th-year students)?
 - Others?

Please fill out student information form in google classroom.

Course Contents

- Economic Growth
 - Concepts & Pattern
 - Theories of Economic Growth
 - Human Capital and Growth
 - Population
 - Education
 - Health
 - Inequality and Poverty
 - Investment and Savings
 - Foreign Debt and Financial Crisis
 - Foreign Aid
 - Trade and Development
 - Managing Short-Run Crisis in an Open Economy
- Before
midterm
- After
midterm

Readings

- Required Textbooks (on the reserve in Puey Library)
 - Perkin, D. H., Radelet, S., Lindauer, D. L., & Block, S. A. (2013). *Economics of Development*. Seventh Edition. W.W. Norton & Company.**
- Required journal articles – as indicated in the course outline.
 - Please check moodle regularly for updates (**enrollment key: 4678**) .
- Supplemental Textbooks:
 - Todaro, M., & Smith, S. (2011). *Economic Development*. Eleventh Edition. Prentice Hall.
 - Jones, C. I. (2002). *Introduction to Economic Growth*. Second Edition. W. W. Norton & Company.
 - de Janvry, A., & Sadoulet, E. (2016). *Development Economics: Theory and Practice*. Routledge.
 - Van den Berg, H. (2001). *Economic Growth and Development: An Analysis of Our Greatest Economic Achievements and Our Most Exciting Challenges*. Boston: McGraw-Hill.

Other Suggested Books (For 'Bed-Time' Reading)

1. Acemoglu, D. & Robinson J. A. (2012). *Why Nations Fail: The Origins of Power, Prosperity, and Poverty*. Crown Business.
2. Banerjee, A. V., & Duflo, E. (2011). *Poor Economics: A Radical Rethinking of The Way to Fight Global Poverty*. Public Affairs.
3. Paul, C. (2007). *The Bottom Billion: Why the Poorest Countries Are Failing And What Can Be Done About It*. Oxford University Press.
4. Easterly, W. (2001). *The Elusive Quest for Growth: Economists' Adventures And Misadventures in The Tropics*. MIT press.
5. Sachs, J. (2006). *The End of Poverty: Economic Possibilities for Our lime*. Penguin.

Course Organization

- Meet online every Tuesday and Thursday, 12:30 -2 pm
 - **Zoom Meeting ID: 916 5263 2918; Passcode: 427502**
- Lecture materials will be posted on BE-moodle. Video clips may be posted in google classroom.
- Tuesdays will be lectures. Please mute your microphone but turn on your camera.
- Thursdays will be discussion session based on the assigned readings. Students should read before class and are encouraged to participate in the discussion by contributing answers, comments and questions.
- Attendance will be taken on Thursday. If you are absent from 4 or more Thursday classes, marks will be deducted from your participation mark.

Assessment

- Class attendance & participation (10%)
- Research paper and presentation (25%)
- Proctored Midterm exam (30%) – September 30, 2021 (12-2 pm)
- Take-home Final exam (35%) – Due November 30, 2021 (noon)

Research Paper and Presentation

- Each student will do a data-oriented research on a self-selected topic, and present it in class at the end of the semester.
- You are asked to set up a research question, conduct a literature review, collect and analyze data, and write a report.
- After receiving comments, students will revise the paper and submit it 2 weeks after your presentation.
- Details about topics and format of the paper will be provided after add-drop periods.

Useful Websites

- World Bank <http://www.worldbank.org/>
- International Monetary Fund <http://www.imf.org/>
- Center for Global Development <http://www.cgdev.org/>
- Center for Economic Policy Research <http://www.cepr.net/>
- Peterson Institute for International Economics
<http://www.iie.com/>
- Asian Development Bank www.adb.org
- World Trade Organization www.wto.org
- National Bureau of Economic Research <http://www.nber.org/>

Other Information Sources

- [World Development Indicators](http://data.worldbank.org/data-catalog/world-development-indicators)**
(<http://data.worldbank.org/data-catalog/world-development-indicators>)
- [World Development Reports](#)
- World Factbook <https://www.cia.gov/library/publications/the-world-factbook/>
- International Financial Statistics <http://elibrary-data.imf.org/finddatareports.aspx?d=33061&e=169393>
- Penn World Tables <http://www.ggdcc.net/pwt>

INTRODUCTION TO ECONOMIC DEVELOPMENT

Some Terminology: Rich and Poor Countries

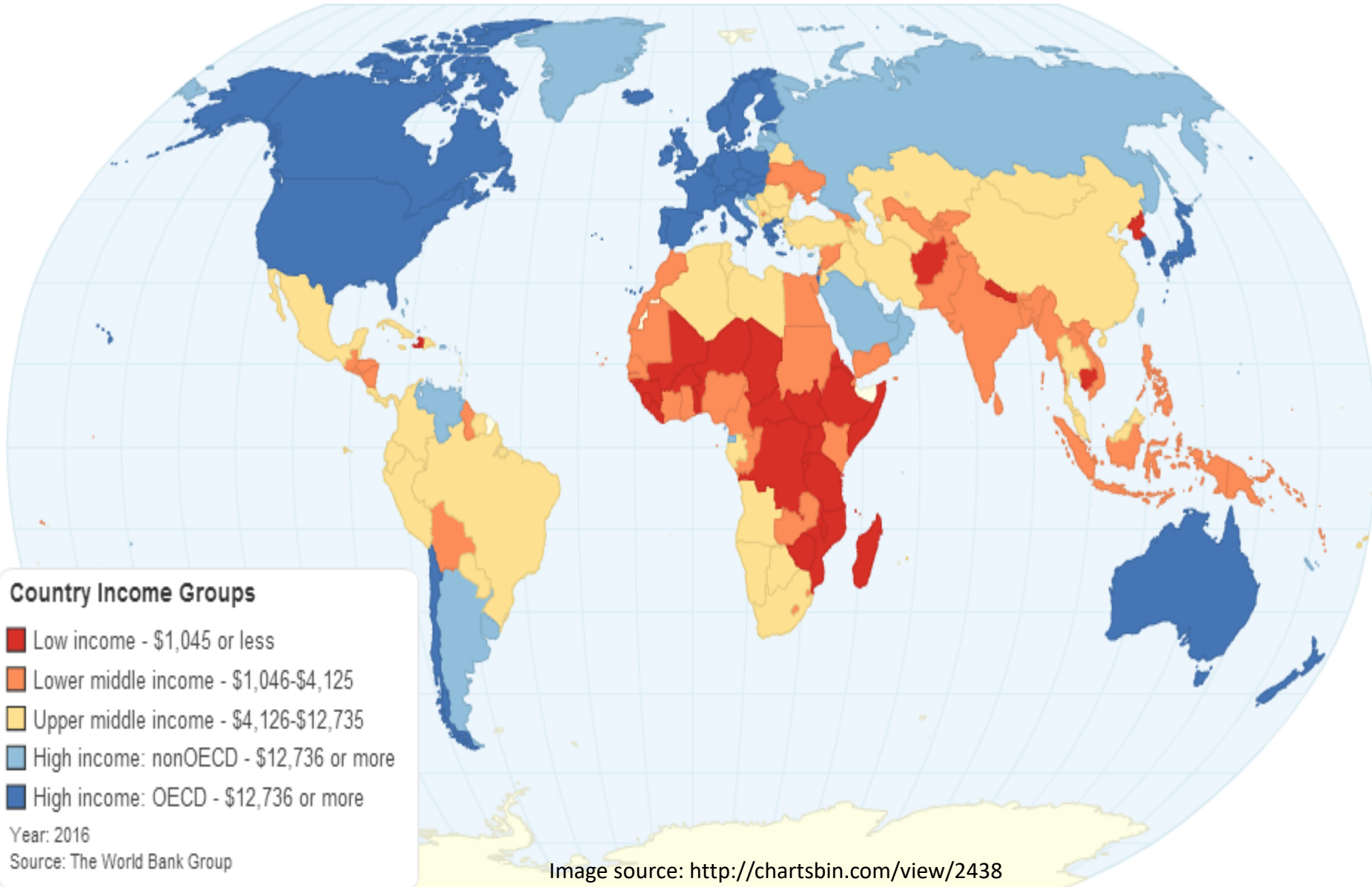
- “Older” classification
 - First World vs. Third World
 - North vs. South
- More recent classification
 - **Developed** countries vs. **Developing** countries (or **Less-developed** countries (LDCs))
 - **Least-developed** countries
 - Emerging economics
 - Industrialized countries

World Bank's Classification, 2017

Category	GNI per capita (US\$)	Avg. Per Capita GNI (current US\$)	No. of Countries	Population in Millions (% of World Total)
Low-income	< 995	744	34	732.45 (10%)
Lower-middle-income	996 - 3,895	2,118	47	2,972.64 (39%)
Upper-middle-income	3,896 – 12,055	8,192	56	2,576.20 (34%)
High-income	> 12,055	40,136	81	1,249.07 (17%)

Source: <http://blogs.worldbank.org/opendata/new-country-classifications-income-level-2017-2018>.

Nations of the World, Classified by GNI Per Capita (2015)



Questions

- Big question:
 - Why some countries are still poor, and how can poverty be overcome?
- More interesting questions:
 - Why some countries develop rapidly, whereas others seem not develop? What explains this wide diversity?
 - What are the lesson learned from these experiences?
- Keep in mind:
 - Development as a complex process that can best be understood by combining economic theory, empirical analysis, and consideration of the institutional context.
 - Economic development is first and foremost as a process involving people.

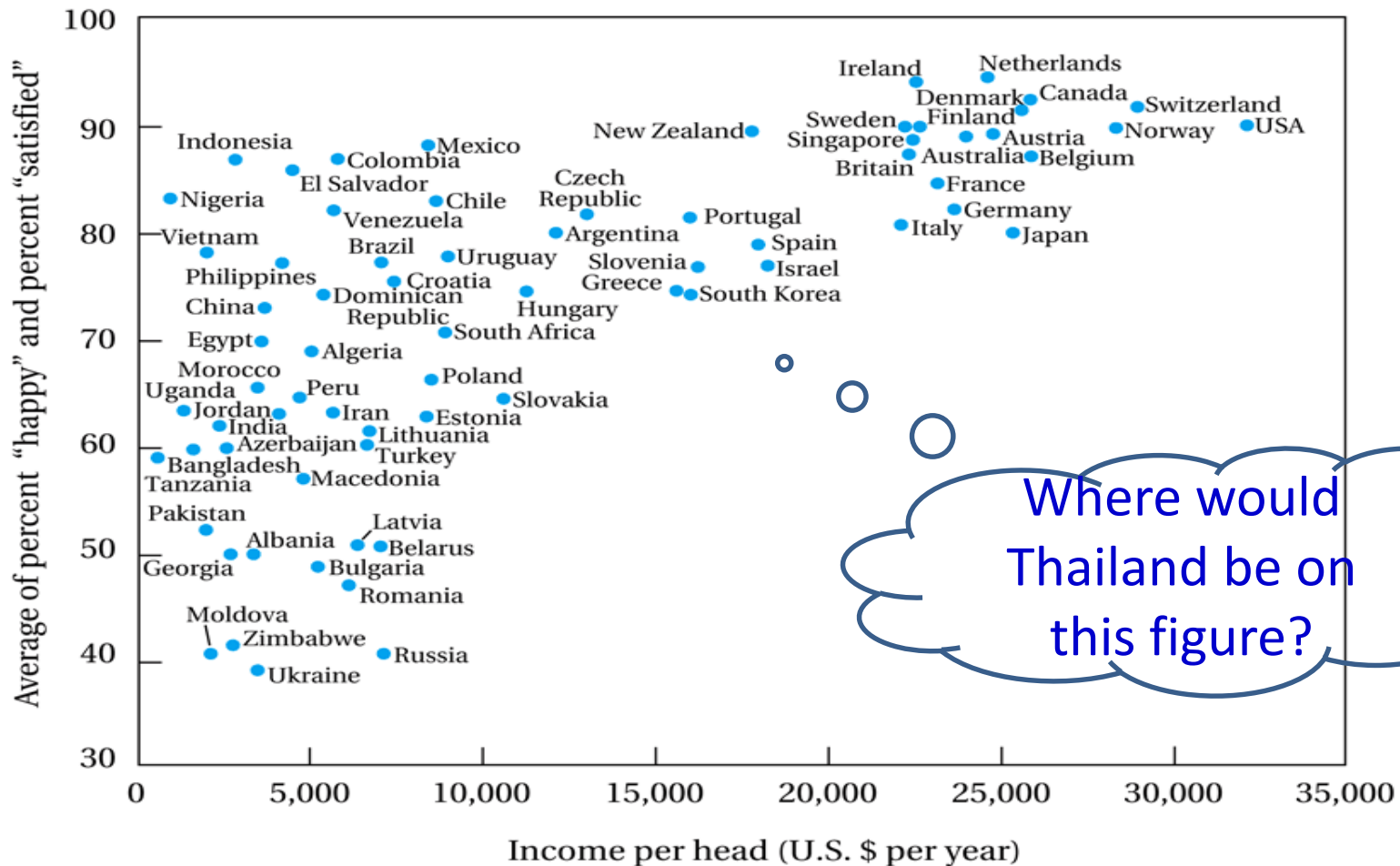
Questions Addressed in This Course

- What are the main factors that contribute to different rates of economic growth?
- What is the relationship between economic growth and inequality?
- How does transformation in human resources contribute to the development process?
- How capital is mobilized and allocated for development purposes?
- What are strategies to promote economic growth?
- How do external factors, such as foreign aid and trade, affect growth?

Growth & Development

- Is economic development the same as economic growth?
 - **Economic Growth** = a rise in national income or per capita income
 - **Economic development** = Economic Growth + improvement in living standards (e.g. health, education, and other aspects of human welfare) of the population
- Economic growth is a **necessary but not sufficient** condition for improving mass living standards
- Amartya Sen's "**Capability**" approach:
 - The goal of development is to expand the *capabilities* of people to **live the lives they choose to lead**.

Income and Happiness: Comparing Countries



The Study of Development Economics

- Greater scope than traditional neoclassical economics and political economy.
 - Interdependent relationships between **economic** and **non-economic factors**
 - Success or failure of development policy depends also on **institutional** and **structural variables**.
- Examples:
 - Increase tax rate may not lower labor supply in developing countries, but may encourage growth in the informal sector.
 - Fixed exchange rates in some countries (so increasing money supply cannot make the exchange rate depreciate).
 - Other?

MEASURING ECONOMIC GROWTH AND DEVELOPMENT

Measuring Economic Growth

- **Gross Domestic Product (GDP)**
 - values all output produced within the borders of the country, including by foreigners but excludes value of production of citizens living abroad
- **Gross National Product (GNP)**
 - values of all final goods and services produced by citizens of the country
 - often called Gross National Income (GNI)
- **GDP per capita** = $\text{GDP} / \text{total population}$
- Economic growth → changes in per capita income over time
- **Real GDP** = GDP adjusted for domestic price inflation

Measuring GDP: What is Left Out?

- Underestimation of total values of output because **some goods and services are not in the market**
 - Unpaid family labor services
 - Agricultural production
- Lack of accurate price information or representative market price at the national level
- Doesn't account for “**public bads**” such as crime, pollution, congestion, etc.

Exchange Rate problems

- GDP does not account for **non-traded goods and services** such as haircut, maid services, etc.
 - Use **Purchasing Power Parity (PPP)** exchange rate
- The *International Comparison Program* (ICP) derives a set of **international prices** in a common currency.
- PPP allows for a more valid comparisons of income levels across economies.

Examples:

- Ratio of PPP calculation to market exchange rate calculation = 0.7 in Norway, 2.8 in India, and 3.3 in Gambia.
- Using market exchange rate, per capita income in the US is ~40 times those in India in 2009, but when using PPP calculation, the gap is ~14 times.

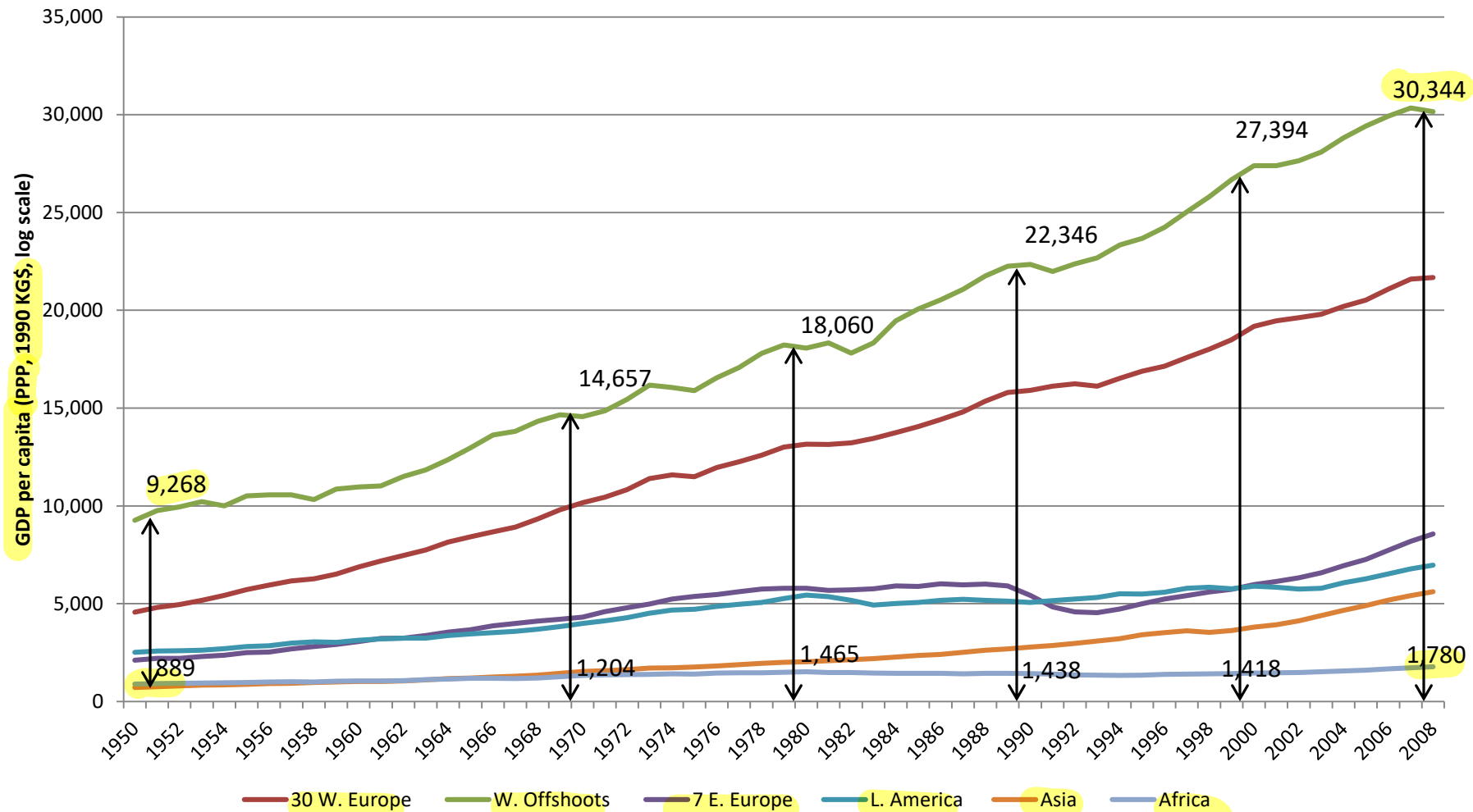
Example: Purchasing Power Parity (PPP)

	US			INDIA		
	Q	P (US\$)	P x Q (billion \$)	Q	P (Rupees)	P x Q (billion Rs)
Steel (million tons)	200	1,000	200	25	50,000	1,250
Retail sales personnel (millions)	2	20,000	40	4	60,000	240
Total GDP (billions)			\$ 240			Rs 1,490

Market exchange rate based on steel prices = Rs 50,000/ US\$ 1,000 =
Rs 50: US\$1

- India's GDP in US\$ based on official exchange rate = $\frac{\text{Rs } 1490}{\text{Rs } 50: \$1} = \$ 29.8$
- India's GDP in US\$ using PPP:
 - Steel: 25 million tons x 1000 US\$ = \$25 billion
 - Retail sales personnel: 4 million people x 20,000 US\$ = \$80 billion
 - GDP = \$105 billion (25 + 80)
- Ratio of PPP to official exchange rate = \$105 bn / \$29.8 bn = 3.5

Economic Growth Around the World



Source: http://www.ggdc.net/maddison/historical_statistics/vertical-file_02-2010.xls

Economic Development

- Economic development: Economic growth + structural change with significant participation of people in producing wealth.
- A. K. Sen: *Economic development is about expanding capabilities of people their lives*. Income is one determinant of that capability. Other factors affecting capability are:
 1. State of health wellbeing
 2. Environmental adversity
 3. Social climate: crime, violence, security
 4. Relative deprivation & inequality
 - These sources of “capability deprivation” that prevent people the lives they desire.

Measuring Economic Development

Human Development Index

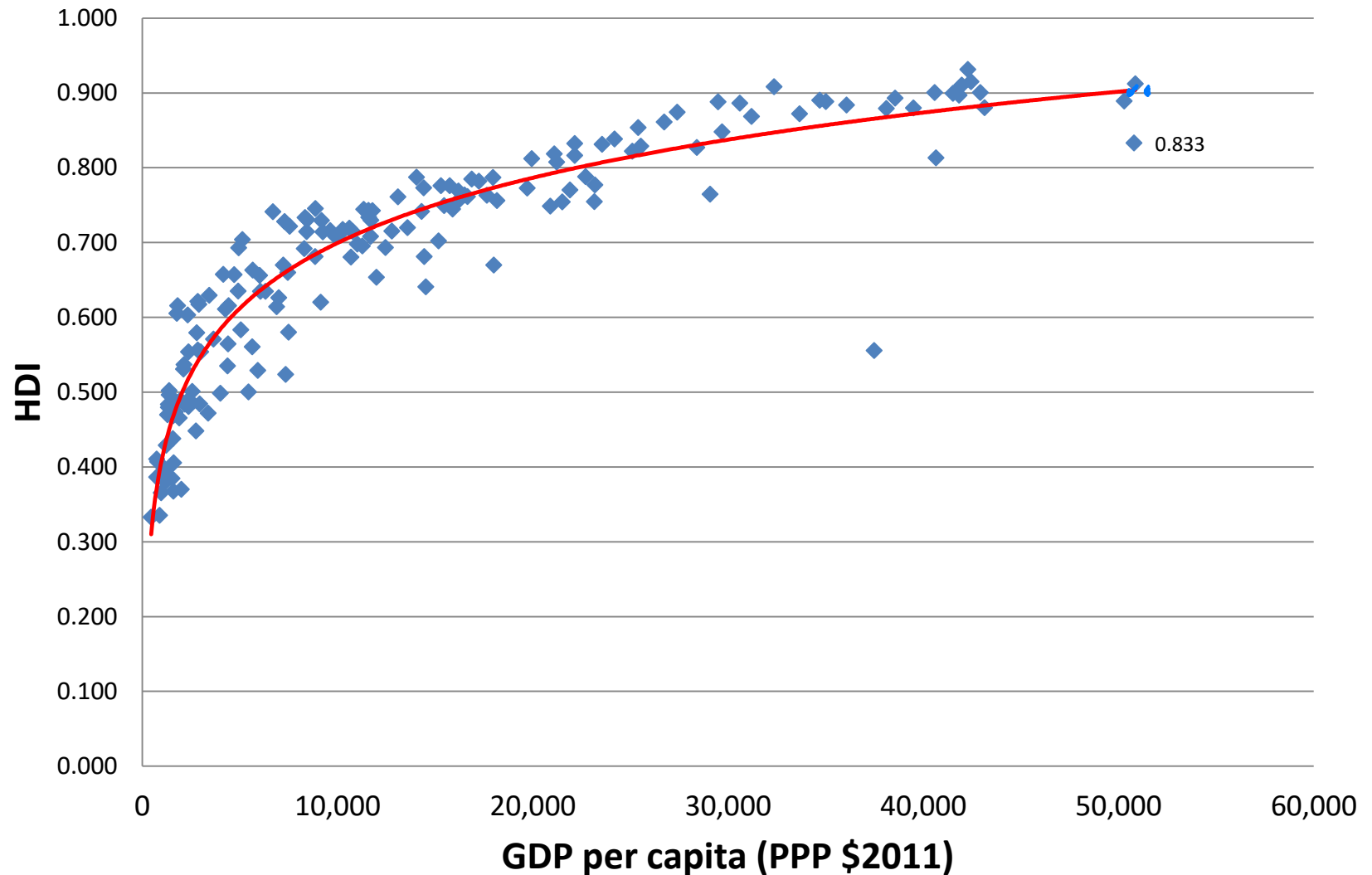
- Measuring Human Development (HDI):

UNDP

- An index of health, education and income
- Measured by weighted average of life expectancy, adult literacy & children school enrollment, and GNP per capita
- Range from 0 to 1
- HDI is generally correlated with income, but data show that improved health and education depend on factors other than income.

Human Capital Index (HCI) by World Bank.

HDI and GDP per capita, 2012



— Poverty gap, Poverty headcount ratio

Multidimensional Poverty Index (MPI)

- MPI is the percentage of the population that is *multidimensionally poor* adjusted by the intensity of the deprivations.
 - It identifies **multiple deprivations** at the household and individual level in *health*, *education* and *standard of living*.
 - Constructed by using **micro data from household surveys**, and all the indicators needed to construct the measure must come from the same survey.
- More info:
 - <http://www.ophi.org.uk/background-to-the-mpi/>
 - <http://hdr.undp.org/en/content/multidimensional-poverty-index-mpi>

Millennium Development Goals (MDGs)

Adopted by world nations in September 2000 that declared 8 goals:

1. Eradicate extreme poverty and hunger
2. Achieve universal primary education
3. Promote gender equality and empower women
4. Reduce child mortality
5. Improve maternal health
6. Combat HIV/AIDS, malaria and other diseases
7. Ensure environmental sustainability
8. Develop global partnership for development

Millennium Development Goals and Targets for 2015

Goals

Targets



1. Eradicate extreme poverty and hunger

- Reduce by half the proportion of people living on less than \$1 a day
- Reduce by half the proportion of people who suffer from hunger



2. Achieve universal primary education

- Ensure that all boys and girls complete a full course of primary schooling



3. Promote gender equality and empower women

- Eliminate gender disparity in primary and secondary education, preferably by 2005, and at all levels by 2015



4. Reduce child mortality

- Reduce by two-thirds the mortality rate among children under 5



5. Improve maternal health

- Reduce by three-quarters the maternal mortality ratio



6. Combat HIV/AIDS, malaria, and other diseases

- Halt and begin to reverse the spread of HIV/AIDS
- Halt and begin to reverse the incidence of malaria and other major diseases



7. Ensure environmental sustainability

- Integrate the principles of sustainable development into country policies and programs; reverse loss of environmental resources
- Reduce by half the proportion of people without sustainable access to safe drinking water
- Achieve significant improvement in lives of at least 100 million slum dwellers by 2020

Millennium Development Goals and Targets for 2015 (cont'd)

Goals

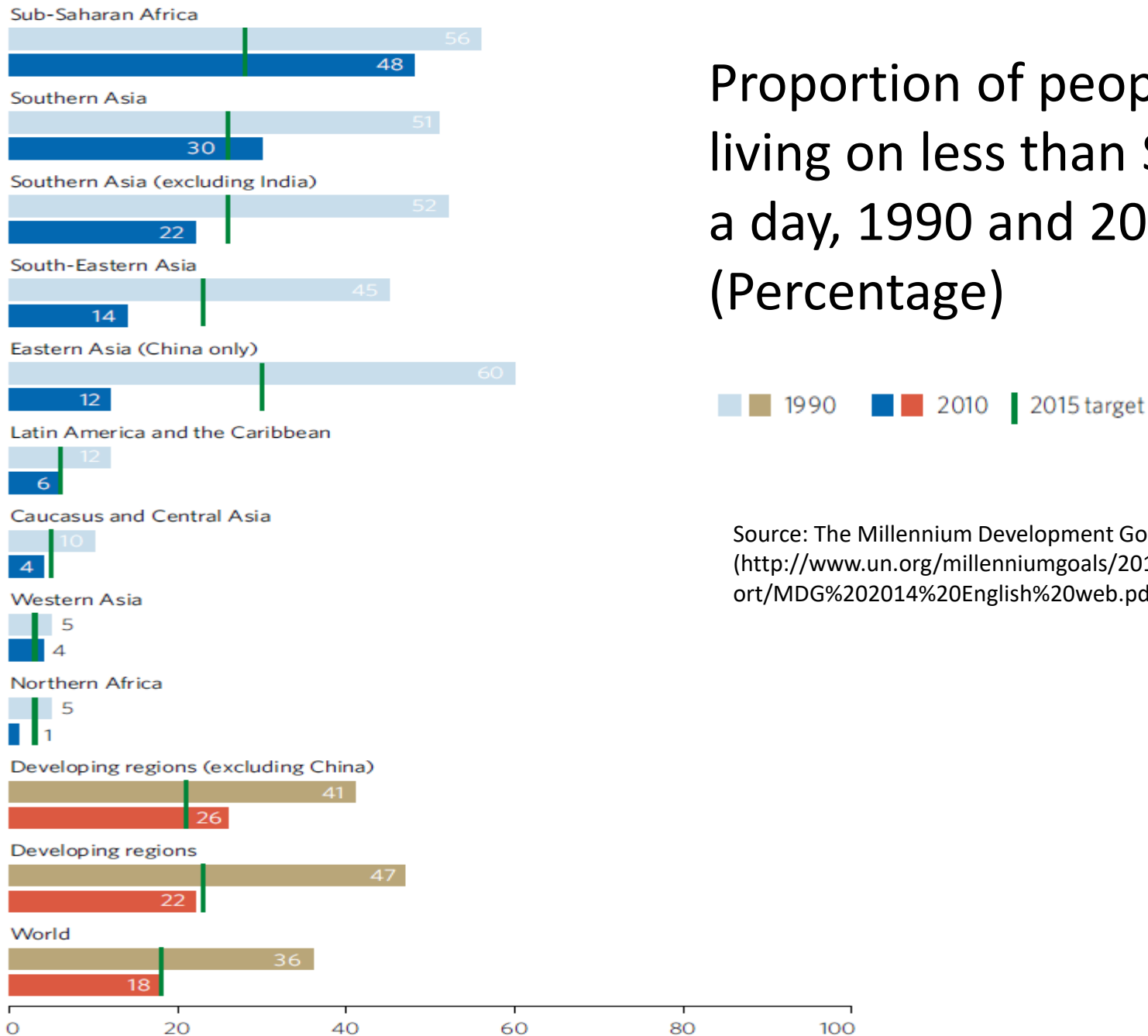
Targets



8. Develop a global partnership for development

- Develop further an open, rule-based, predictable, nondiscriminatory trading and financial system; includes a commitment to good governance, development, and poverty reduction—both nationally and internationally
- Address the special needs of the least developed countries; includes tariff and quota free access for least developed countries' exports; enhanced program of debt relief for heavily indebted poor countries (HIPC) and cancellation of official bilateral debt; and more generous official development assistance (ODA) for countries committed to poverty reduction
- Address the special needs of landlocked countries and small island developing states
- Deal comprehensively with the debt problems of developing countries through national and international measures in order to make debt sustainable in the long term
- In cooperation with developing countries, develop and implement strategies for decent and productive work for youth
- In cooperation with pharmaceutical companies, provide access to affordable essential drugs in developing countries
- In cooperation with the private sector, make available the benefits of new technologies, especially information and communications

Proportion of people living on less than \$1.25 a day, 1990 and 2010 (Percentage)



Source: The Millennium Development Goals Report 2014
<http://www.un.org/millenniumgoals/2014%20MDG%20report/MDG%202014%20English%20web.pdf>

Sustainable Development Goals (SDGs)



Is Economic Growth Desirable

- Does greater economic Growth lead to more happiness?
- There is *no correlation* between growth and happiness, or growth does not increase happiness.
- **Easterlin paradox**: in the US people did not seem to be happier despite the increase in per capita income over the past half century.
- For *poor countries*, growth may not increase happiness, but it **increases the range of choices and advances human capabilities**.

Happy Planet Index

3 measures:

- life expectancy
- experienced well-being
- ecological footprint

Figure 5: A map of the world, colour-coded by HPI



Source: <http://www.happyplanetindex.org/data/>