3. Discussion of Text 1b) after short break 5min.

PART 2.

MECHANISMS AND CONTEXT UNDERLYING SOCIAL INEQUALITIES IN CANCER

PART 2 HAPTER (

CHAPTER 9.

Recent trends in income inequality

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RESEARCH

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Vacancies

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PUBLICATIC

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Dr. Max Roser

Founder and Director

Max is the founder and director of Our World in Data. He <u>began</u> the project in 2011 and for several years was the sole author, until receiving funding for the formation of a team. He is also Programme Director of <u>the Oxford Martin Programme on Global Development</u> at the University of Oxford, and Co-executive Director of <u>Global Change Data Lab</u>, the non-profit organization that publishes and maintains the website and the data tools that make our work possible.

Inequalities

- Inequality & Global Inequality
- Global income inequality simply reflects the combination of inequality between countries and within countries
- ... within-country inequality visible throughout the 1980s and 1990s, although significant, has been outpaced by the convergence in average incomes between countries
 - Catch-up by developing countries (e.g. Asia)
 - Globalization, technological development
- but top 1% (based on tax register) show more rapid divergence

Comparative within country analyses:

- 1. overall inequality
- 2. Income share of top 1%
- 3. relative poverty rates

Fig. 9.1. Global inequality decomposed into inequalities between countries and within countries. The estimates were constructed by combining national household surveys, some of which referred to consumption and others to (disposable) income, at 2011 purchasing power parity exchange rates. Where surveys in the reference year were unavailable, adjacent years were also used. The inequality metric here is of the Generalized Entropy family. GE(0) (or Theil-L index) is a decomposable measure of overall inequality equal to the mean log deviation. The top horizontal line shows the evolution of overall inequality and the lower horizontal line that of within-country inequality, both in population-weighted terms. The proportions of the between-country and within-country component of global inequality are given as percentages of total inequality for each reference year. Source: compiled from Lakner and Milanovic (2016 [Table A.3]).



Gini-Index 1990 vs. 2015

Changes in Gini Index

- lower-income countries use often consumption measures, while higherincome countries use income measures
- High inequality countries, many show significant decrease (under the diagonal)
- Low-medium inequality countries have seen stability or some significant increase
- China, large increase in inequality, much larger than Western countries
- Nordic countries still hold lowest inequality

Fig. 9.2. Gini index for about 2015 plotted against that for about 1990, including both income and consumption survey data. Only countries for which estimates of the Gini index were based on broadly comparable surveys for the two reference years were included. The closest survey to the reference year was selected, up to a maximum of 5 years difference. The size of the circles is in proportion to population size. Data for China are from Kanbur et al. (2017 [Table 1.B]). Source: compiled from Atkinson et al. (2017), Kanbur et al. (2017), and World Bank (2018).



Gini Index (Coefficient)

- Measure of overall inequality
- A / (A+B)
- 0 (perfect equality) 1 (one person takes everything)
- Can be measured with different indicators
 - Income, wealth, consumption



Fig. 9.5. Gini index in high-income countries for the period 1960–2015. In most cases figures refer to disposable (after taxes and transfers) household income, equivalized for household composition. For Canada, the unit of analysis is the family; for Italy, figures are per capita. Data for Denmark and the USA are from LIS (2018). Source: LIS (2018).



Trend

Time-series: The Chartbook of Economic Inequality (Atkinson et al.,2017).

Fig. 9.4. Gini index in selected Latin American countries for the period 1981–2012. Figures refer to equivalized household income, defined as market income plus transfers, less taxes on wage income. Source: SEDLAC (CEDLAS and the World Bank) (2018).



Redistribution

- Gini-index before and after redistribution
- Equivalized Disposable HH Income
- (right) | Market income
 - taxes + social transfers
 - = disposable income | (left)
- "Equivalized" household income?
- Redistribution matters
 - Compare USA vs Europe!
- →Welfare state matters in addition to wage bargaining

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• How about pre-distribution?

Fig. 9.6. Gini index of market and disposable income, where figures refer to equivalized household income. Most observations are from 2014, but if data from 2014 were not available earlier observations are shown (the earliest is 2011, for China, India, and the Russian Federation). Estimates for the Netherlands are provisional, according to the OECD. *, market income Gini index for China, Hungary, Mexico, and Turkey refers to income after taxes and before transfers. Source: OECD (2018).



Top income Share

- Top income share why do we care about this?
- Limitation of Gini Coefficient
- Survey sampling issues
- Use of Administrative Tax Data

Fig. 9.7. Top 1% share of pre-tax income (all income received by individual owners of capital and labour, before tax/ transfers but after pensions) in high-income countries for the period 1915–2014. The Italian series on top income share was extended to 2014 (provisional estimates) using adjusted council-level data on incomes reported in income tax returns, kindly provided by Demetrio Guzzanti. Source: WID (2018).



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Top income share vs Gini Index

Fig. 9.8. Top 1% share of pre-tax income (defined as for Fig. 9.7) in BRICS countries for the period 1915 BRICS, Brazil, the Russian Federation, India, China, and South Africa. Source: WID (2018).



Fig. 9.2. Gini index for about 2015 plotted against that for about 1990, including both income and consumption survey data. Only countries for which estimates of the Gini index were based on broadly comparable surveys for the two reference years were included. The closest survey to the reference year was selected, up to a maximum of 5 years difference. The size of the circles is in proportion to population size. Data for China are from Kanbur et al. (2017 [Table 1.B]). Source: compiled from Atkinson et al. (2017), Kanbur et al. (2017), and World Bank (2018).



Poverty

- Absolute Poverty (National poverty lines)
- Relative poverty (50 or 60% of median equivalised HH income)

National poverty lines, poverty rates & incomes in five countries

All figures are adjusted to account for differences in the cost of living across countries.



Note: All figures are expressed in 2017 international-\$. The tails of the distribution are not shown since they tend to be poorly captured by household surveys on which this data is based. "Poverty lines are approximations of national definitions, harmonized to allow comparisons across countries. All poverty lines are from Jolliffe et al. (2022), except for US – which we calculate from the value that in the World Bank's poverty data yields the same rate as the offical US Census Bureau poverty rate in 2019.

Source: Jolliffe et al. (2022); US Census Bureau; World Bank Poverty and Inequality Platform. OurWorldinData.org – Research and data to make progress against the world's largest problems.

Fig. 9.10. Relative poverty rates (< 60% of the median) for the period 1978–2014. *, including Taiwan, China. Source: LIS (2018).

Poverty Trends

- Relative Poverty
- LIS: Luxembourg Income Study (compiles HH surveys worldwide)
- Historical series before 1990s rare
- Long-term fluctuation, but rise in some countries



The Chartbook of Economic Inequality Inequality by Country Inequality Measures Earlier Versions About

The Chartbook of Economic Inequality

Earnings Dispersion
Overall Income Inequality
Poverty
Top Income Shares
Wealth
Inequality

This Chartbook presents the empirical evidence about long-run changes in economic inequality. The chartbook covers 25 countries – often over the course of more than one hundred years. For each country a chart shows how different dimensions of economic inequality have changed over tim detailed description of the data sources is given for each country.

- Download the entire Chartbook of Economic Inequality as a .pdf book
- Download the entire database (including original sources and descriptions) as an Excel file
- Download the entire database in a format readily usable for statistical software

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Click on a country to see how economic inequality has changed over the long run:



The chartbook covers the following 25 countries:

Chartbook

<u>The Chartbook of Economic</u> <u>Inequality – Data on Economic</u> <u>Inequality over the long-run</u>

https://www.chartbookofeconomicinequality.com/

World Inequality Database

- https://wid.world/
- Top income/wealth data based on National Accounts, Tax/Fiscal Data



4. S<mark>mall group work</mark> (20 min) <mark>after short break 5min</mark>

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Group task (20 min.) & class discussion

- Please work together in small groups (3-5 students)
- Explore Our World in Data (OWID) https://ourworldindata.org/
- Who provides this data collection and what does open access mean?
- Which scope in terms of topics & reach does OWID have?
- Do select an indicator of interest and produce a map (save it)
- Do select also a time-series indictor & plot 4-5 countries to compare
- We will discuss your experience and some examples later in class