

Third Assignment

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1 Research question

Our collaborative research project seeks to provide an answer to the following question: **How the rise in the rise in inequality and economic growth influences the purchase of luxury goods, particularly cars, and the usage of public transportation systems in Singapore, from 1960 to 2015.** More details about the research proposal are available in the repository ResearchProposal.

2 Data overview

3 Data sources and data gathering

The data that we need for our empirical analysis are to be retrieved from different sources:

- IMF Cross Country Macroeconomic Statistics open data, containing cross-country macroeconomic data. From this source we downloaded the dataset on Singapore GDP per Capita at Current Prices measured in national currency. Data were downloaded in csv format from Quandl, providing high-quality financial and economic data in different formats to facilitate data analysis.
- Knoema, a knowledge platform connecting data with analytical and presentation tools, in order to allow users to access, present and share data-driven content. From The World Top Incomes Database - providing access to data on the distribution of top incomes in more than twenty five countries across the globe - we downloaded data about income inequality on Singapore measured by the inverted Pareto-Lorenz coefficient. This coefficient, measures the average income of people above y, relative to y, providing a direct and intuitiver measure of the fatness of the upper tail of the distribution: the higher the coefficient, the larger the shares of top incomes (meaning an higher top income inequality). In practice, the coefficient typically varies between 1.5 and 2.5: values around 1.5 or below indicate low top income inequality, while values around 2.5 or below indicate high top income inequality. A value of 1.5 means that people above a specified level have on average 50 per cent more income; a value of 2.5 means that they have 150 per cent more income (Atkinson, Piketty, and Saez 2009) The reason why we did not gather data from the database Clio Infra available on Quandl as we had defined in our ResearchProposal , is that it did not provide sufficient data for the time span we are considering.
- PUBLIC TRANSPORTS
- PURCHASE OF CARS

4 Descriptive and inferential statistics

References

Atkinson, Anthony B, Thomas Piketty, and Emmanuel Saez. 2009. "Top Incomes in the Long Run of History." National Bureau of Economic Research.