



Rich Cities, Poor Countryside?

Social Structure of the Poor and Poverty Risks in Urban and Rural Parts of Switzerland

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RC28 Spring Meeting, April 21-23, 2022, London School of Economics, London

Introduction: Economic change does amplify inequalities between urban and rural parts

- Social change and technological progress increase urban-rural inequality and disparities (Katz and Margo, 2014);(Eckert, Ganapi, Walsh, 2020).
- ➤ Spatial dimension of poverty not well studied so far. Not least due to a lack of data (Copus et al., 2015).
- In Switzerland today, national poverty indicators are available for regions, but not for cantons and municipalities.
- Research Questions:
 - 1. Are people living in cities or the countryside more at risk of becoming poor?
 - 2. Are different social groups poor in cities versus the countryside?
 - 3. How important is the opportunity structure with respect to the risk of being poor?

Using tax data for poverty studies

- ▶ Data for a large canton in Switzerland. Bern is the 2nd largest canton in Switzerland (1 million inhabitants), and has an interesting mix of urban and rural parts, representing the situation in Switzerland quite well.
- Rich dataset from the SNF project Inequality, Poverty Risks and the Welfare State consisting of a linkage of individual tax data with other register and survey data. It has several advantages among the most important for our purpose that individuals are linked to municipalities

Method: Measuring poverty

- Financial approach to measure poverty. As we have extensive information on social transfers we are able to measure post transfer poverty
 - ▶ With an extensive data-based means-testing procedure accounting for different needs according to the household composition and living-region we assess **income poverty** (absolute poverty approach).
 - asset-based poverty measure (Brandolini, Magri, and Smeeding, 2010; UN, 2017) that accounts for financial reserves to cover the poverty-gap for 12 months

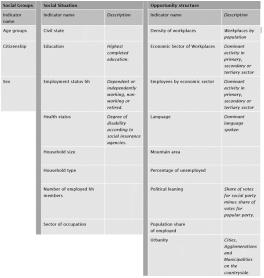
Method: Analytical strategy

 Analytical strategy: we implement a combination of deductive (pre-selection of relevant risk factors based on literature) and inductive (data-based risk assessment) strategy.

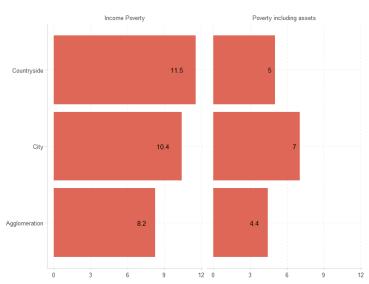
Methods

- Analysis of the social structure of the poor in urban and rural areas.
- Random forest based variable importance assessment.
 Advantage of accounting for non-linear relationships and interactions between micro and meso level variables without the need to specify them (Molina and Garip, 2019; Athey and Imbens, 2017).

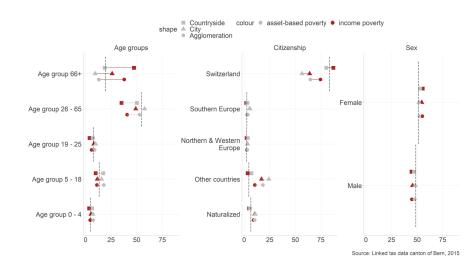
Data: Poverty risk factors and the opportunity structure



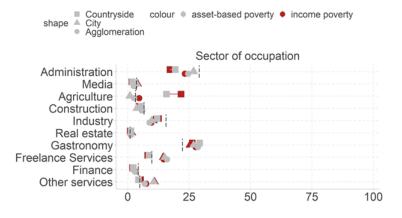
Results: Poverty rates in cities and the countryside



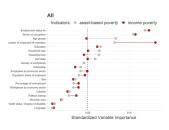
Results: The social structure of poverty differs in urban and rural areas

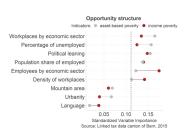


Results: Sector of occupation matters



Results: What about the opportunity structure?





Summary & Conclusion

- Is the rural population disconnected? Is there more poverty in the countryside? No. Poverty is more common in cities. There are spatial differences:
 - **Countryside**: Retired and farmers more common.
 - ► City: People in unstable employment relationships such as free-lancers, cultural workers, personal service workers (domestic help, hairdressers, etc.), foreign people with a migration background from outside of Europe.
- Machine-learning based risk-factor assessment suggests that the immediate social situation, such as not having access to gainful employment and the sector of occupation, are the most dominant factors predicting poverty. Characteristics of the opportunity structure have comparatively lower predictive power.

Thank you for your attention! oliver.huembelin@bfh.ch

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