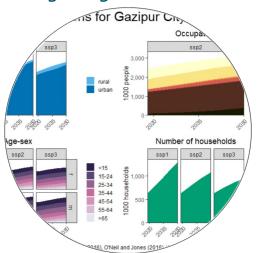
Mapping of subnational poverty and food security to support national and local food system transformation

Presentation prepared for the Ethiopia mapping workshop, 20-06-2023 in Wageningen

Michiel van Dijk

Wageningen Economic Research, Wageningen University & Research (WUR)







Introduction

- Many countries are in the process of developing national food security, SDG and climate (NDCs) action plans and strategies.
- National decision makers supported by international donors increasingly approach Wageningen Economic Research (WEcR) for support in developing these plans by means of ex-ante policy analysis using simulation models.
- Examples:
 - CGIAR SHIFT (with IFPRI & ABC)
 - FOSTr (with Oxford University)



More than 100 countries sign up to develop national strategies for transforming food systems

Ahead of September's Food Systems Summit, more than half of the UN's Member States have pledged to host Dialogue events to begin conversations about improving food systems.



Foresight for Food Systems Transformation (FOSTr)

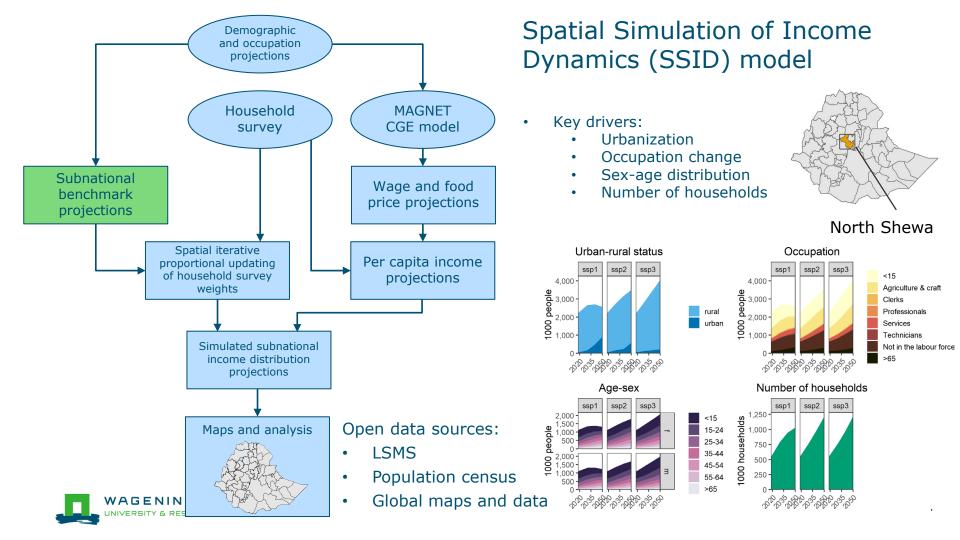


Aim

To develop a **modelling approach** that takes into account global, national and local drivers **to simulate income distribution**, **poverty, food consumption and food security at subnational scale**, answering questions such as:

- Which districts are most likely to achieve SDG1, SDG2 and SDG10?
- What is the impact of decreasing economic growth (e.g. caused by COVID-19) on the spatial distribution of poverty and food security?
- Are there overlaps between climate, poverty and food insecurity hotspots?





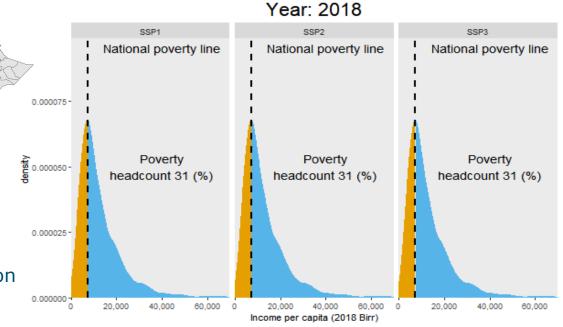
North Shewa:

Income distribution by SSP scenario: 2018-2050

Regional distributional patterns determined by the combined effect of:

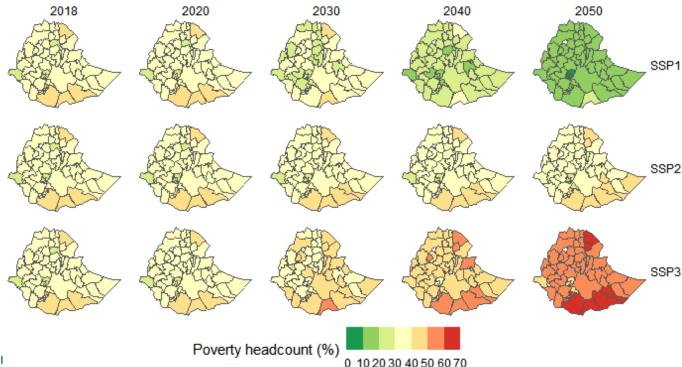


- Urbanization
- Structural economic change
- Change in wages per occupation



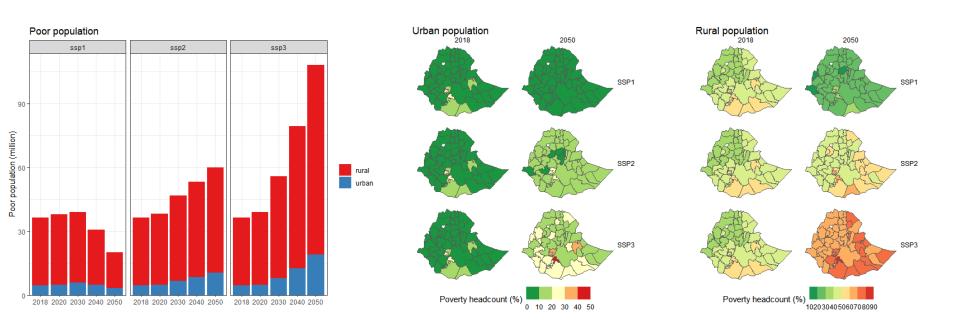


Spatial distribution of poverty headcount over time and space by SSP scenario: 2018-2050





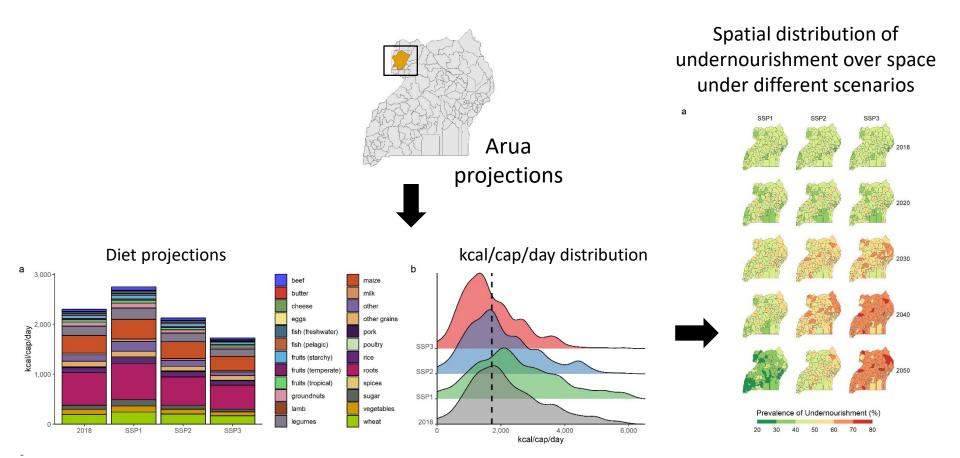
Spatial distribution of poverty headcount over time and space by SSP scenario and urban rural status: 2018-2050



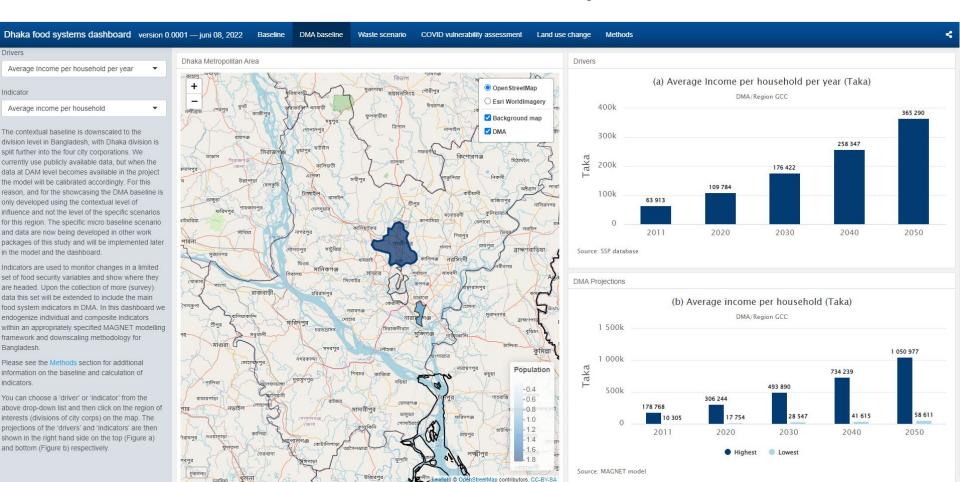
Additional maps and figures for poverty headcount by occupation, age group and sex



Subnational diet and food security projections: Uganda case-study

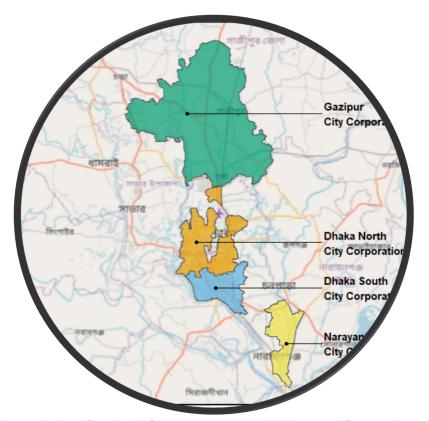


Interactive dashboard with key scenario results



Thank you! Questions?

Michiel van Dijk michiel.vandijk@wur.nl





The authors would like to acknowledge funding for project KB35-103-002 from the Wageningen University & Research "Food and Water Security programme" that is supported by the Dutch Ministry of Agriculture, Nature and Food Security"