



Evolving food systems in Ethiopia Past, Present and Future

Bart Minten, Mekdim Dereje, Seneshaw Tamru and Fantu Bachewe IFPRI-ESSP

Presentation EPHI September 7th, 2018





Plan of presentation

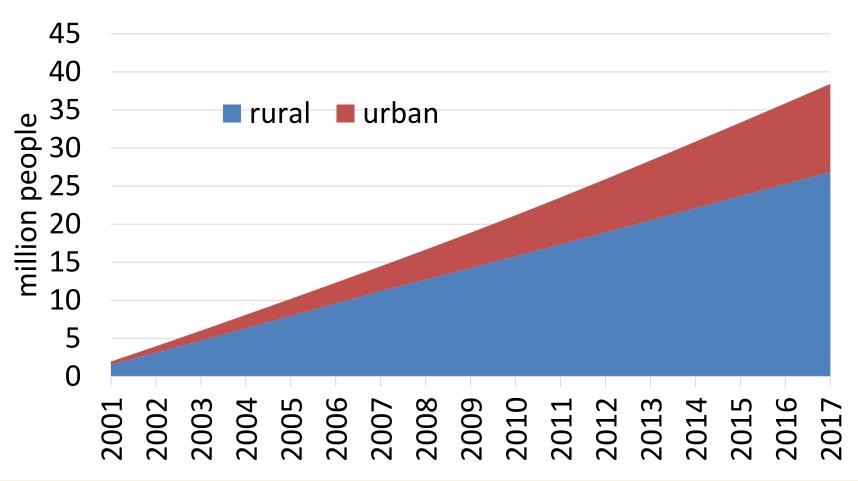
1. Context drivers

2. Changes in markets

3. Changes in farms and farmers

4. Future food systems

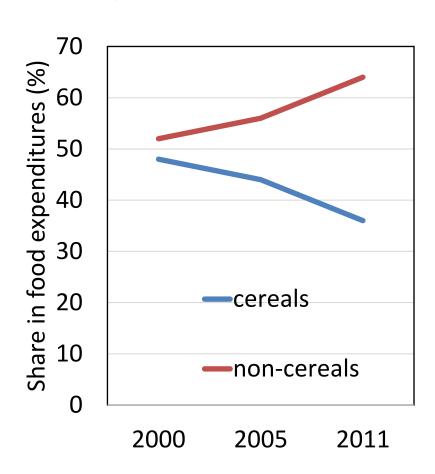
Population growth



Income growth and diet transformation

Increasing diversification in the food basket

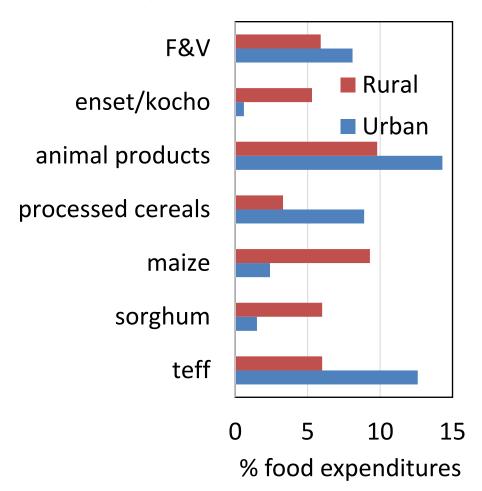
- However, quantities of cereals consumed is increasing:
- 1996: 127 kgs/capita
- 2000: 141 kgs/capita
- 2005: 150 kgs/capita
- 2011: 155 kgs/capita
- Share of cereals in expenditures on the decline



Income growth and diet transformation

Important difference between urban and rural areas

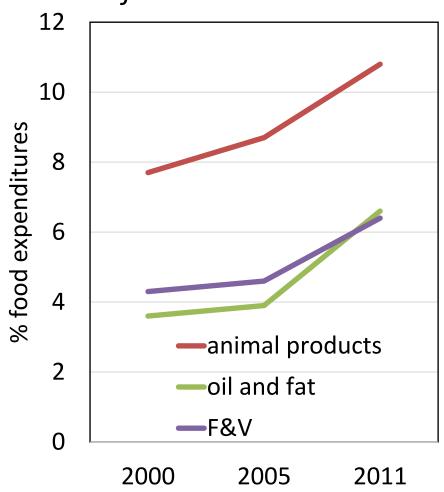
- Urban residents have different food basket:
- More consumption of teff and meat
- Lower consumption of maize, sorghum and enset/kocho



Income growth and diet transformation

Diversification into high-value food types

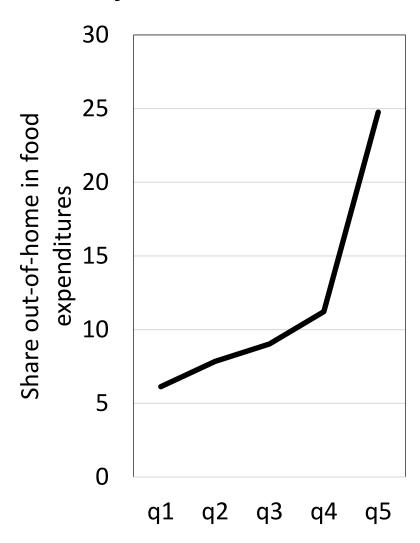
- Non-cereal foods on the rise:
- Animal products
- Oils and fats
- Fruits and vegetables



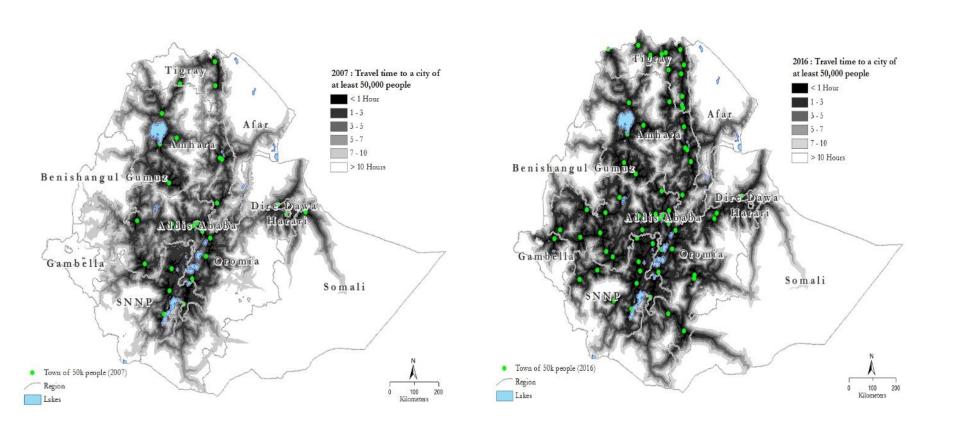
Income growth and diet transformation

Food away from home is becoming more important

- In HCES 2011, urban areas:
 16% of food budget on food eaten away from home
- For richest quintile, onequarter of food expenditures
- Implication for food service sector

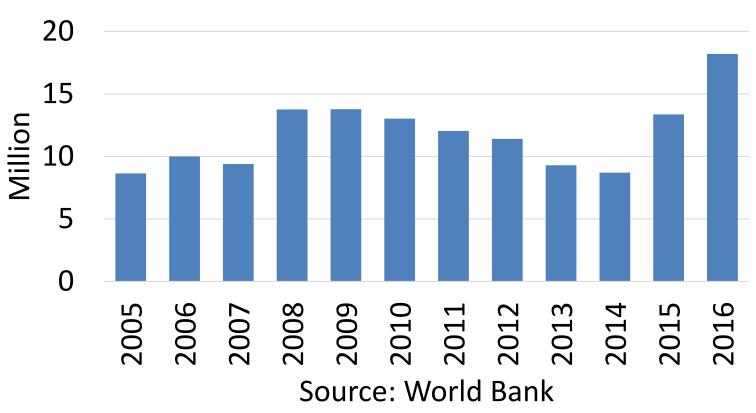


Infrastructure development

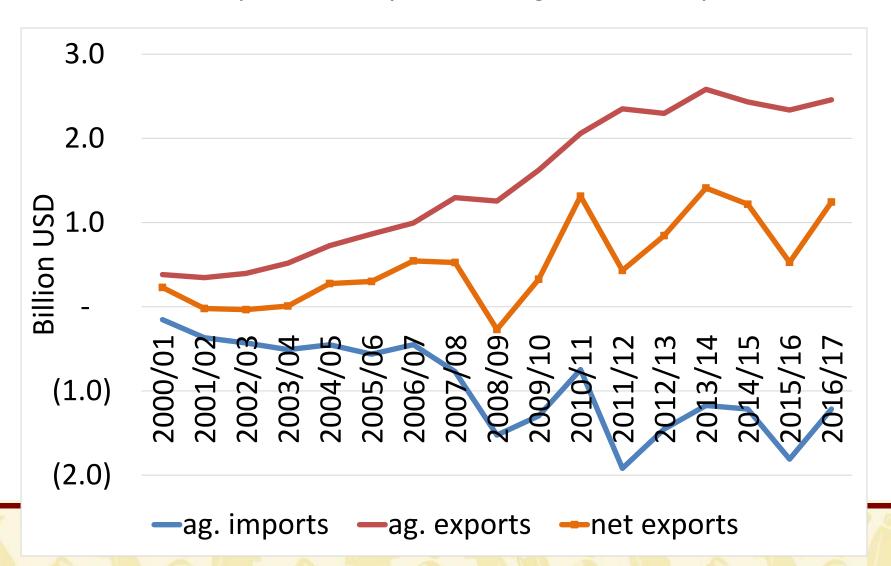


Number of people that need assistance not coming down

Number of HRD/PSNP beneficiairies

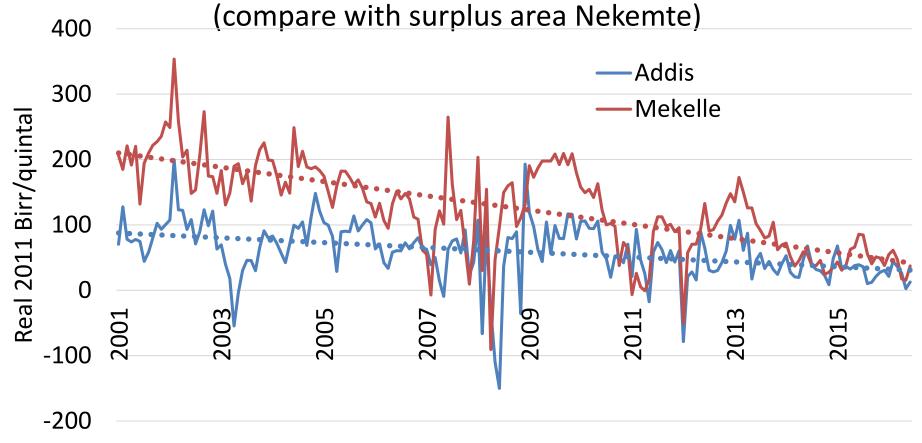


But Ethiopia in most years net agricultural exporter

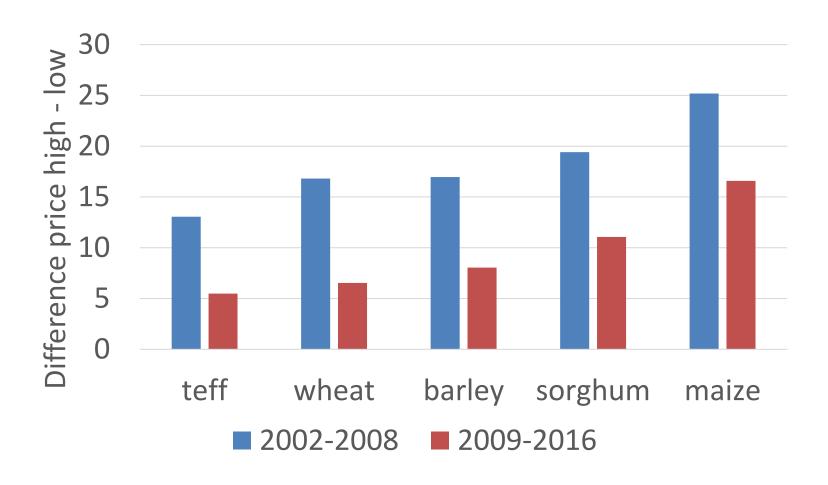


Marketing margins are declining

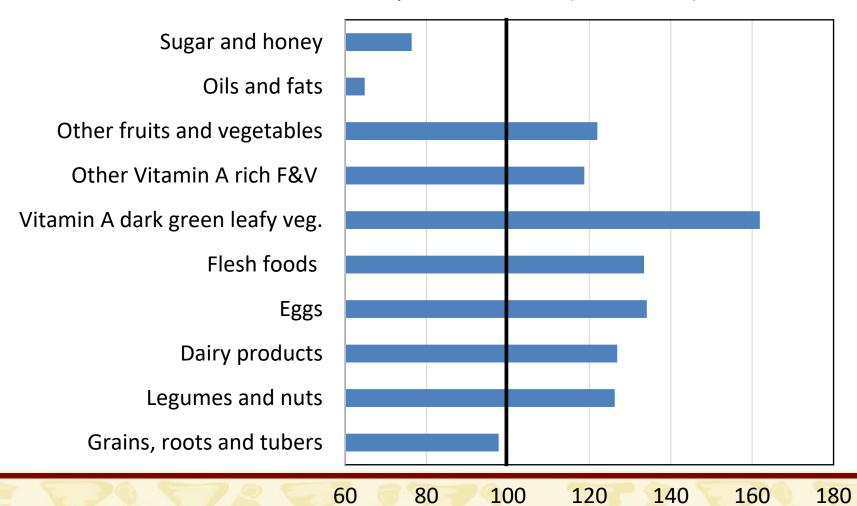
Maize markets price differences markets price differences



Price seasonality declining

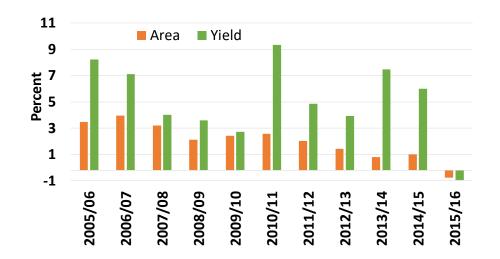


Prices of nutritious foods on the rise Prices in 2016 compared to 2007 (2007=100)



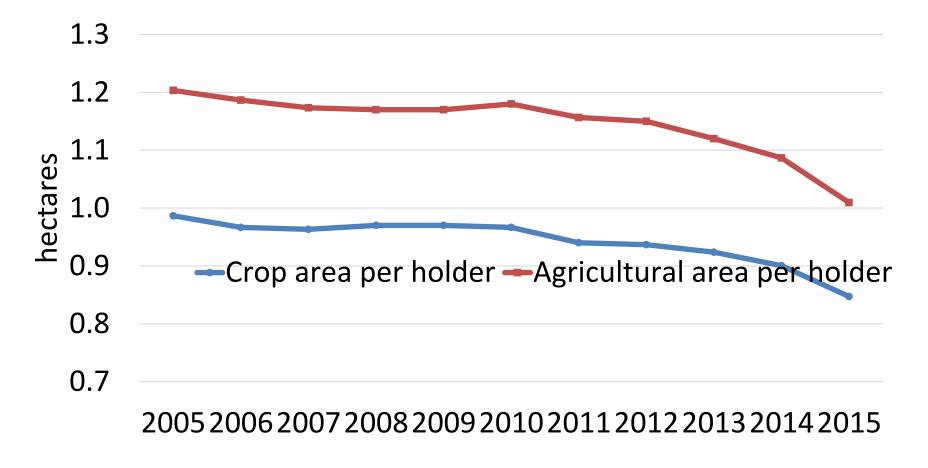
Growth is increasingly driven by yield increases, less by area expansion

- Annual increases in cereal area cultivated have declined from over 3% in the early 2000's to less than 1% in recent years.
- Yield increases averaged over 5% per year from 2010/11 to 2015/16.

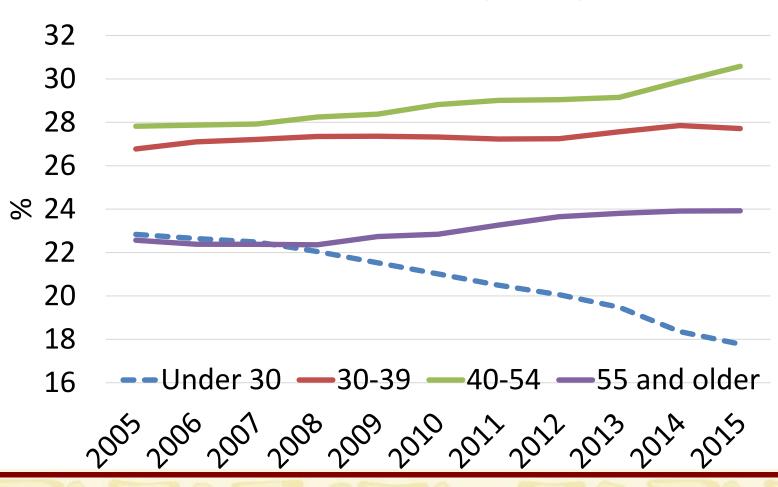


- Increases in area cultivated, labor use, use of fertilizer and improved seeds, and total factor productivity (TFP) accounted for much of the **8.3 percent** annual average growth in cereals from 2004/05 to 2015/16.
- Growth in cereal output slowed to 6.7 percent per year in the second part of this period, however, as growth rates of all major inputs declined, except the growth rate of fertilizer use.

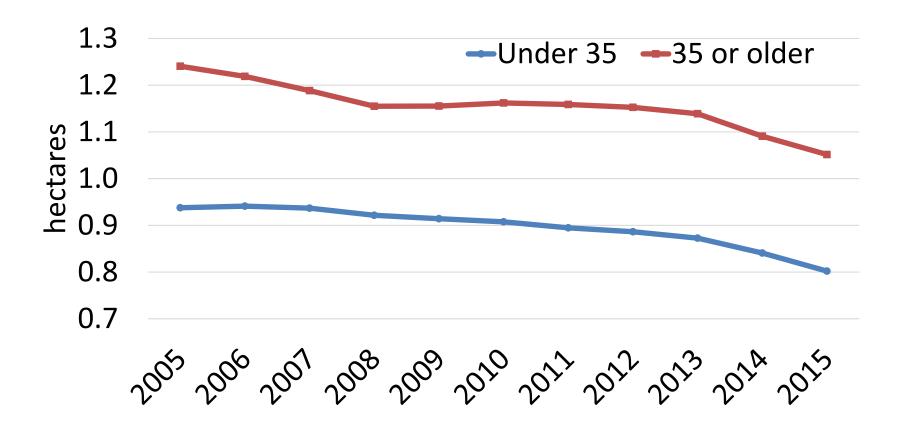
Farm sizes are declining



Farmers are getting older
Share of farmers in four age categories

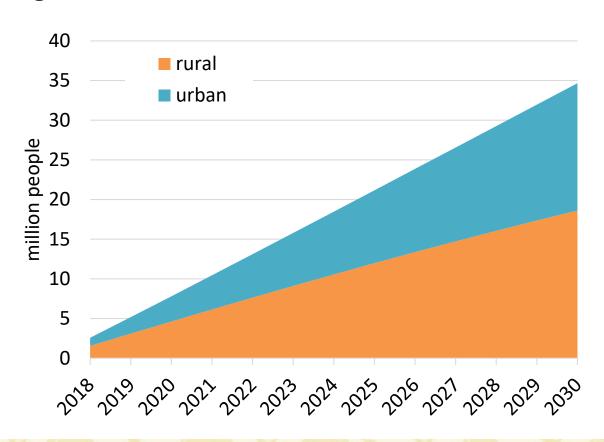


Youth farmers have less land

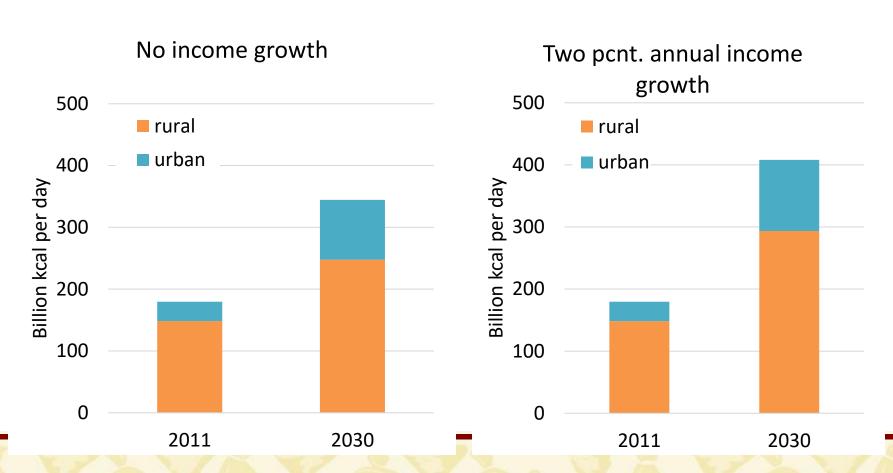


Context

- Economic growth leading to income growth (two scenarios)
- Population growth



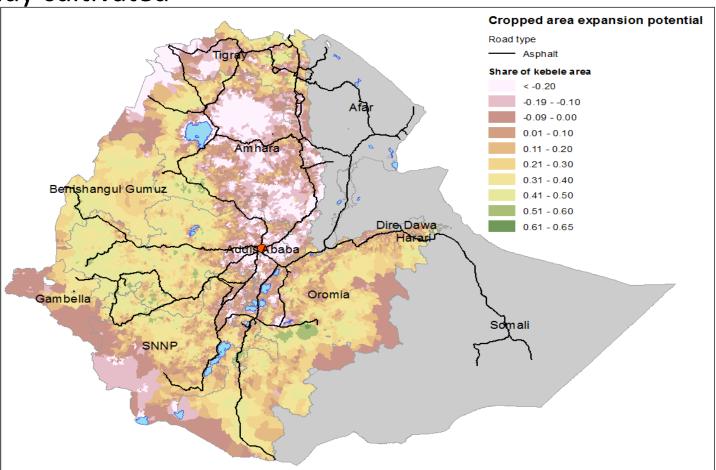
a. Agricultural transformation Consumption growth will give incentives for agricultural transformation



a. Agricultural transformation

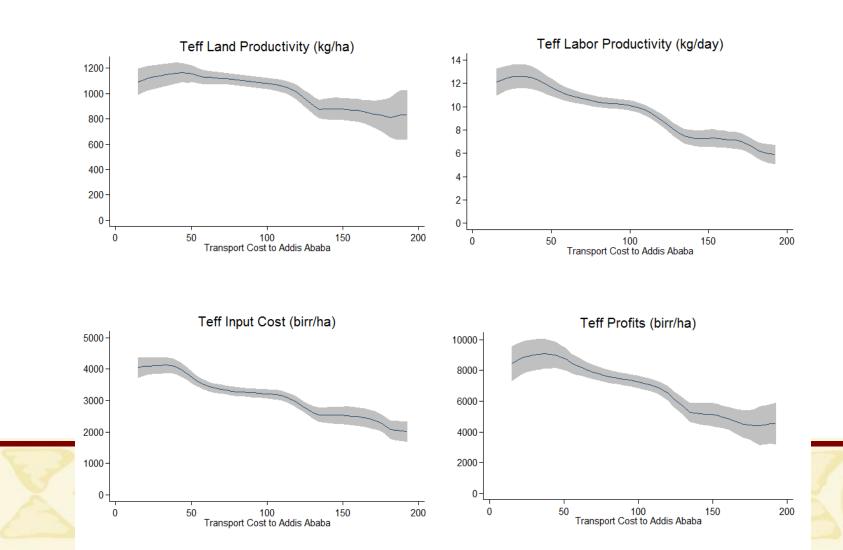
Land constraints will become more binding. The highlands have greater potential for cropped area, however much of this land is





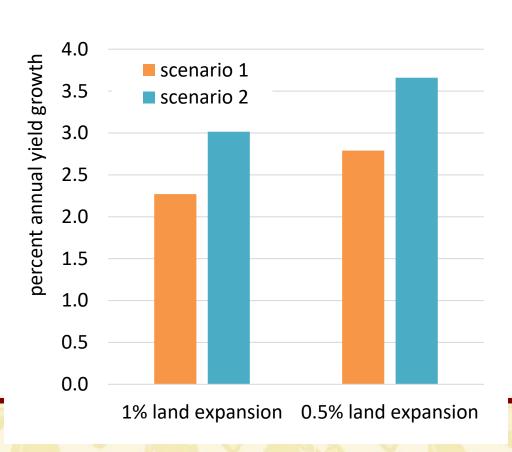
a. Agricultural transformation

Increasing reach of cities will stimulate agricultural transformation

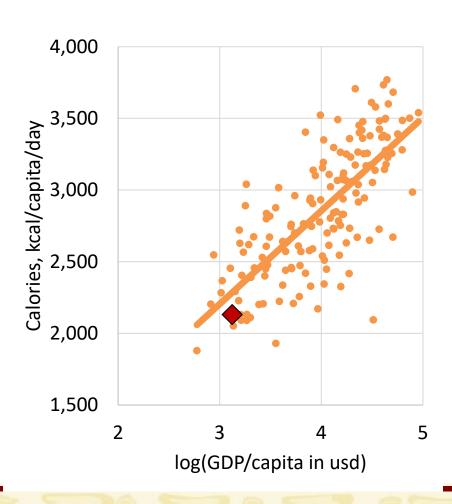


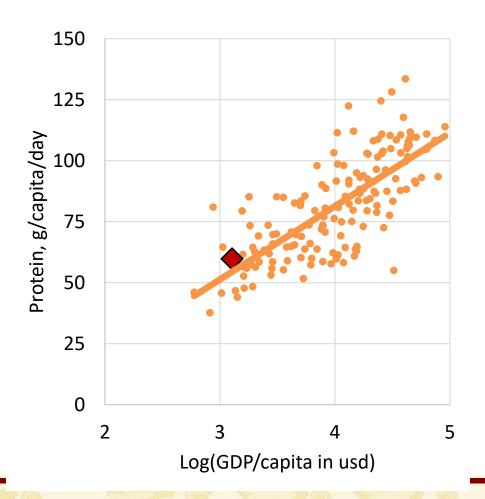
a. Agricultural transformation

Required yield growth up to 2030 to assure national self-sufficiency (scenario 1: no income growth; scenario 2: 2% income growth)

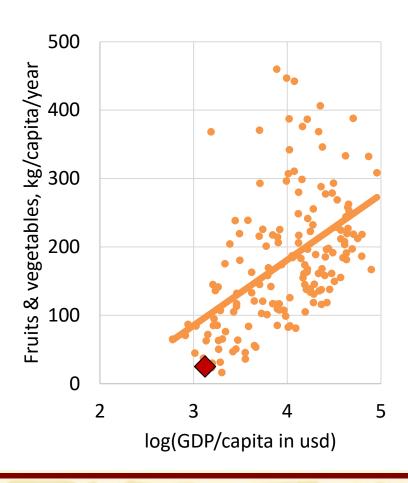


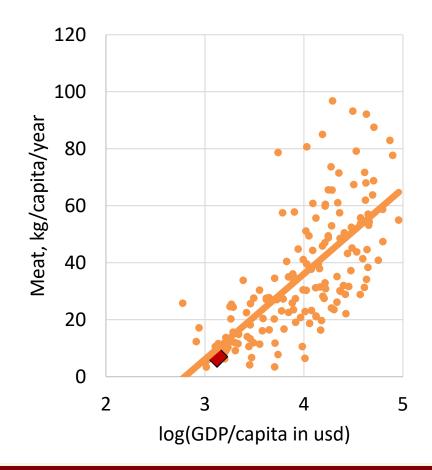
b. Diet transformation



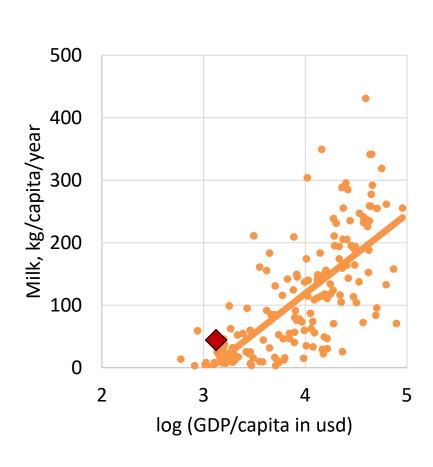


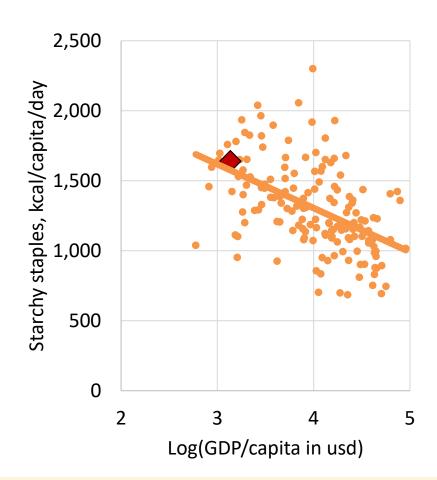
b. Diet transformation





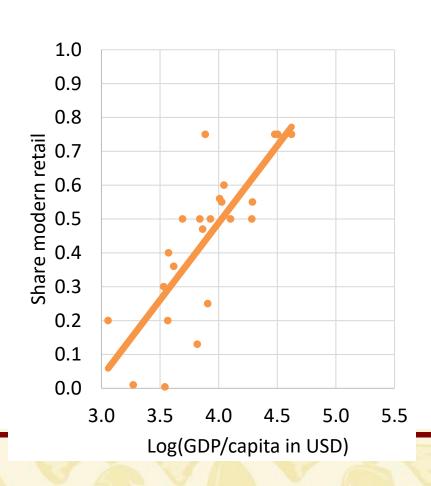
b. Diet transformation

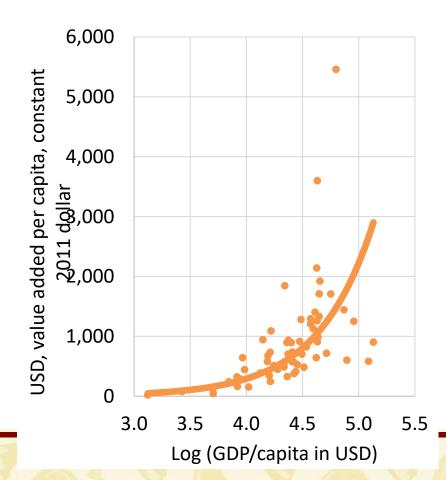




c. Supply chain transformation

Growth of modern retail and processing industries





c. Supply chain transformationRapid commercial market expansion

