

UNITED NATIONS EXPERT GROUP MEETING ON
POPULATION, FOOD SECURITY, NUTRITION
AND SUSTAINABLE DEVELOPMENT

Growth and consumption trends, projections of food and agriculture
16 September 2019

Lorenzo Giovanni Bellù
Senior Economist

Lead, Policy Intelligence Branch and global perspectives FAO UN - Rome





1. Sustainably improving agricultural productivity to meet increasing demand
2. Ensuring a sustainable natural resource base
3. Addressing climate change and intensification of natural hazards
4. Preventing transboundary and emerging agriculture and food system threats

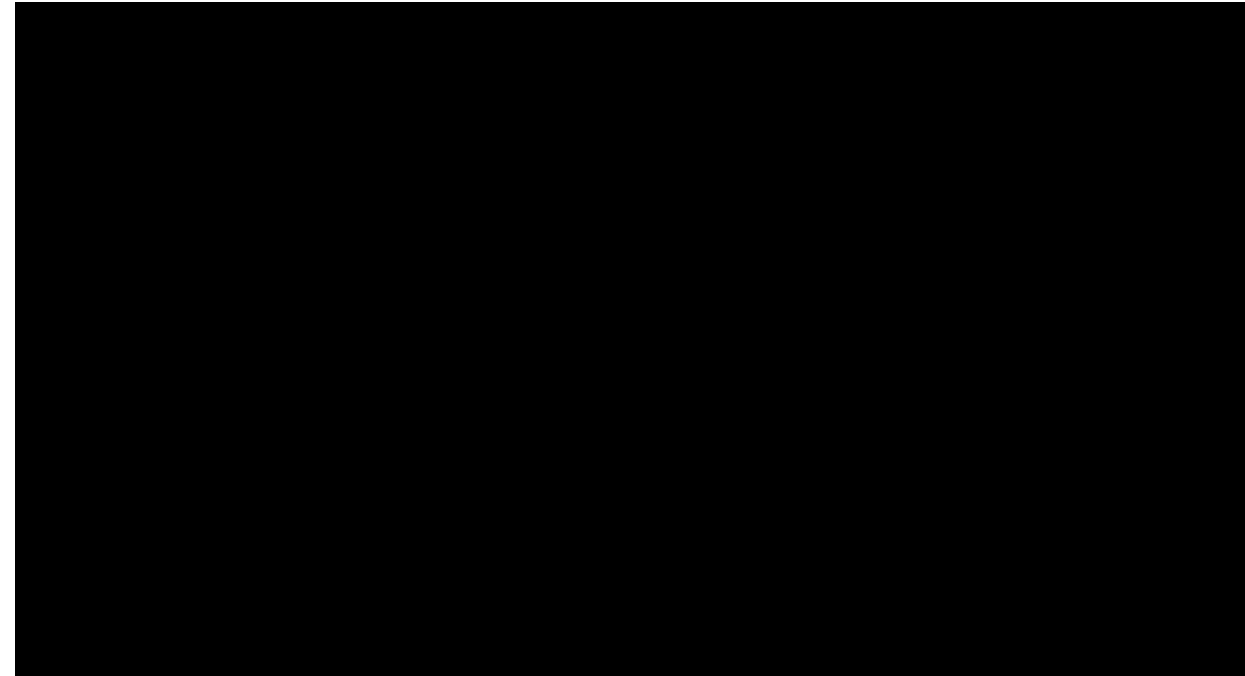
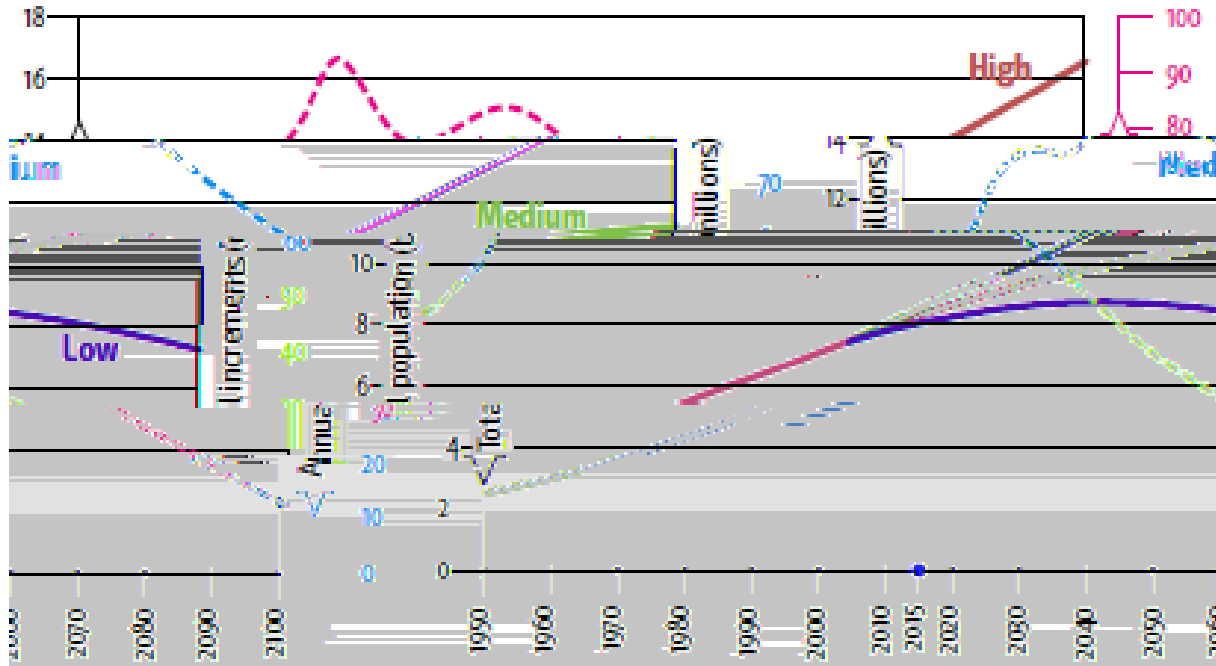


5. Eradicating extreme poverty and reducing inequality
6. Ending hunger and all forms of malnutrition
7. Improving income earning opportunities in rural areas and addressing the root causes of migration
8. Building resilience to protracted crises, disasters and conflicts

9. Making food systems more efficient, inclusive and resilient
10. Addressing the need for coherent and effective national



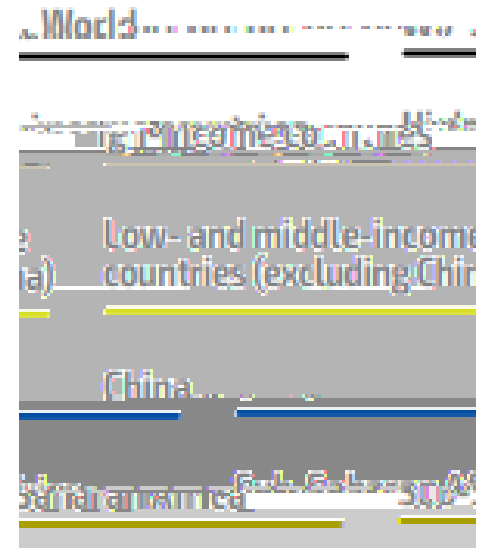
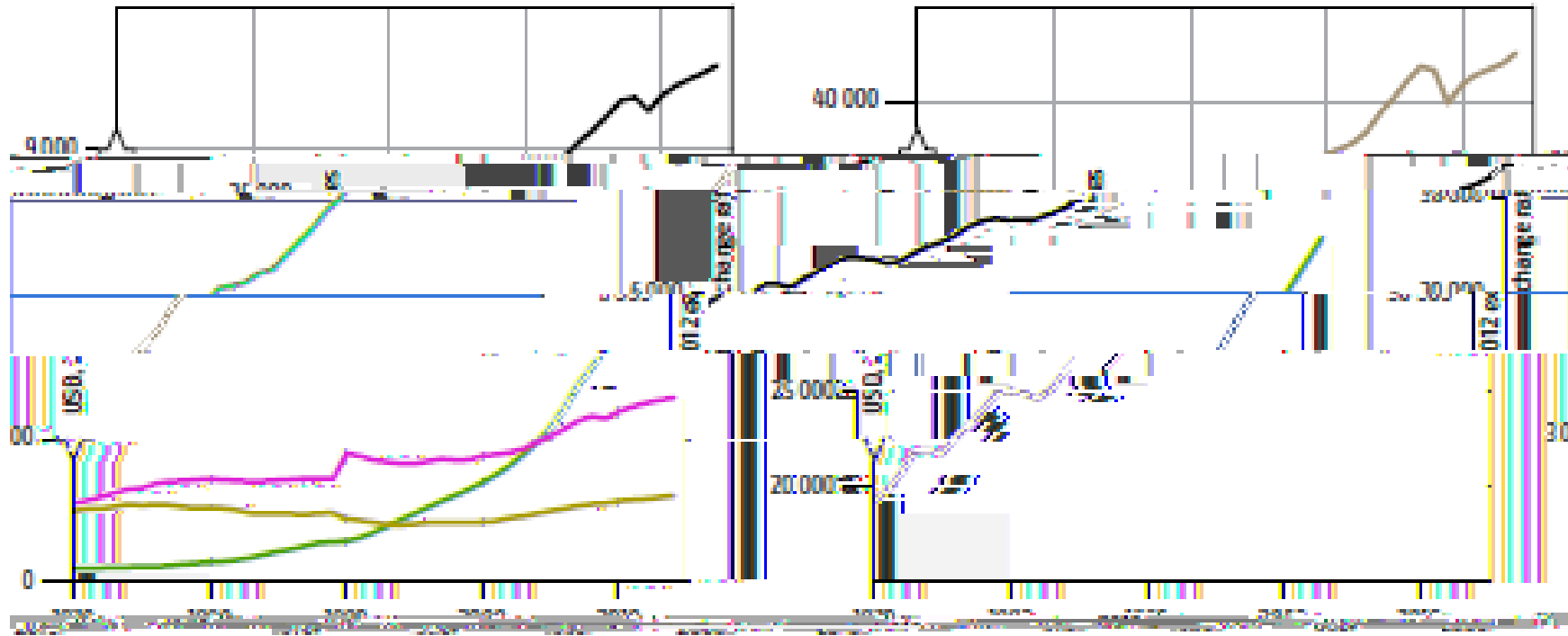
Trends: Population dynamics (1950-2015) and





Trends: Per capita income (GDP)

a) Monetary values

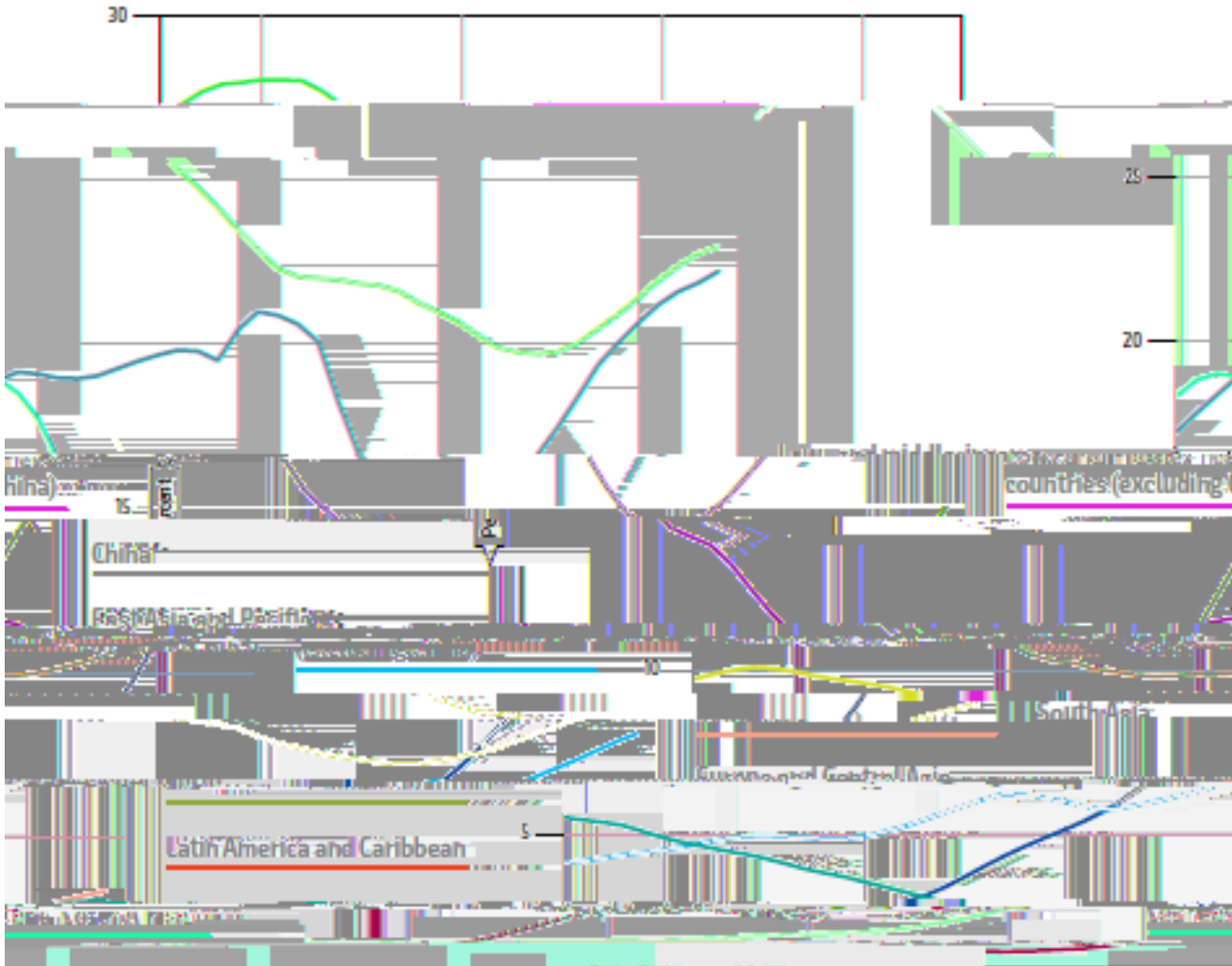


Source:



Trends: Inequality and others

a) Per capita income in low- and middle-income countries as percentage of high-income countries

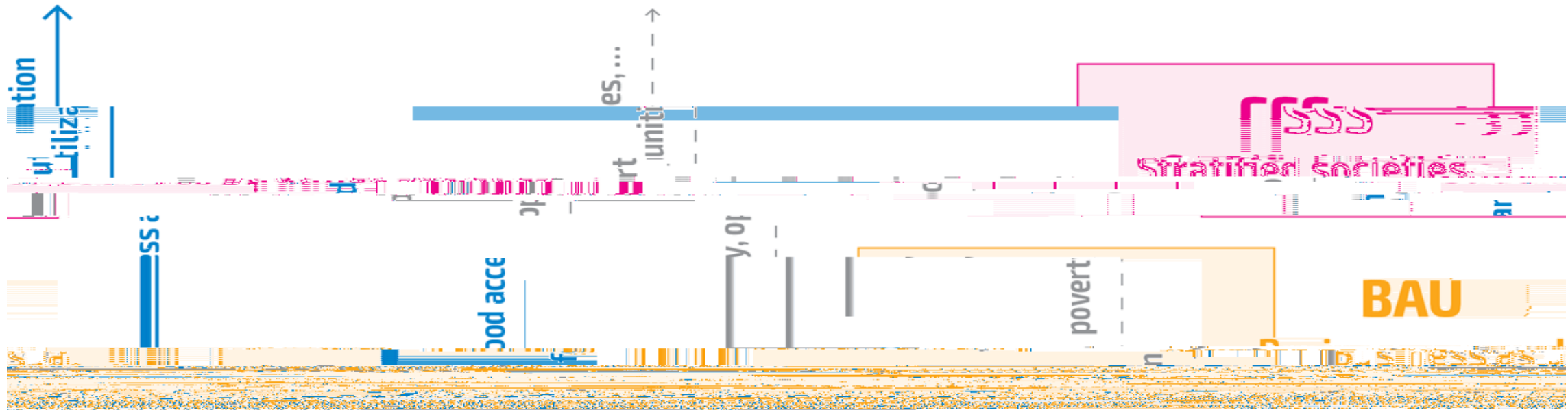


-
-
-
-
-
-
-
-

Source:



Challenges space for food security, nutrition and sustainable agriculture





The three FOFA 2050 scenarios in a nutshell

| | Business as usual (BAU) | Towards Sustainab. (TSS) | Stratified societies (SSS) |
|------------------------------------|-------------------------|--------------------------|----------------------------|
| Economic growth (per capita) | | | |
| International governance/conflicts | | | |
| Human development | | | |
| Energy, GHG emission | | | |
| Land and water use | | | |
| Agricultural innovation | | | |
| Welfare and inequality | | | |



The foresight process in FOFA 2050 (simplified)

Narratives and assumptions

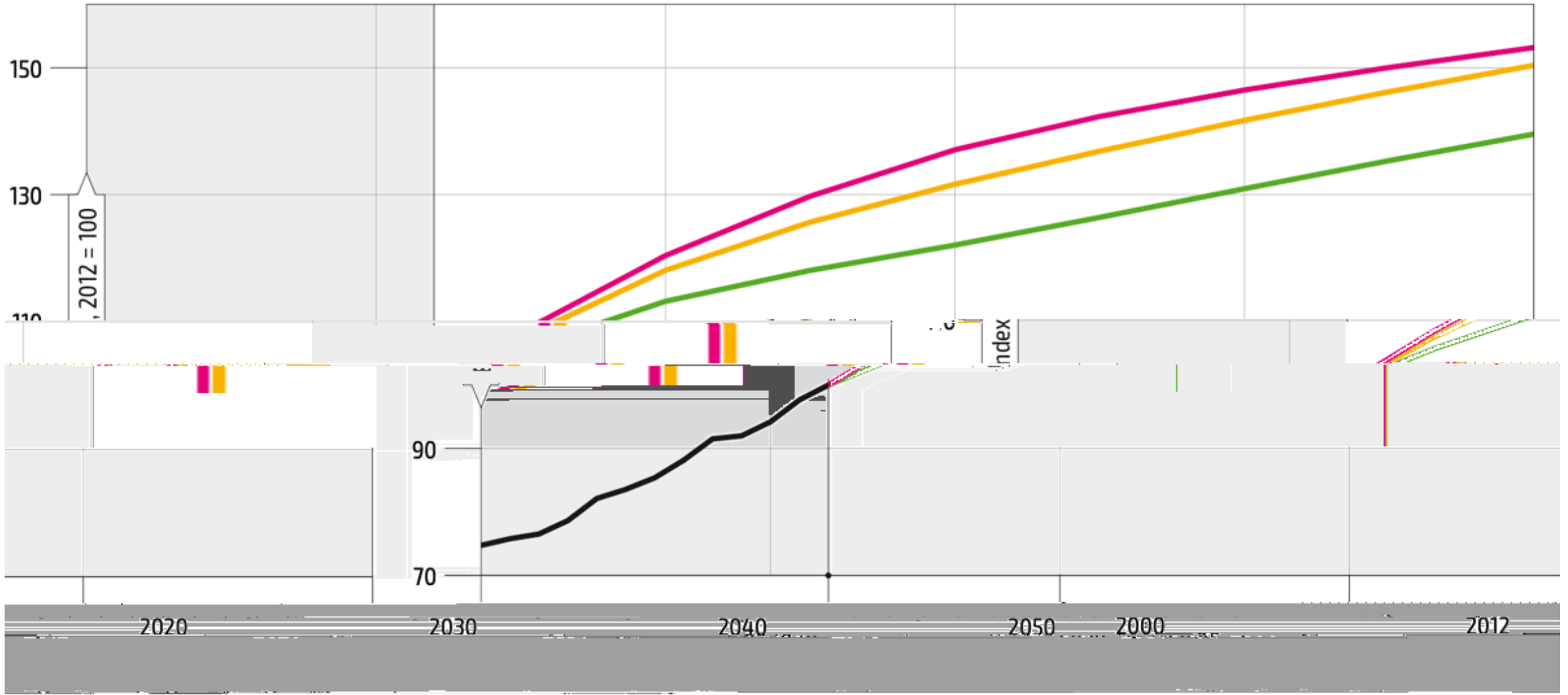
Quantitative projections

Analysis





Gross agricultural output

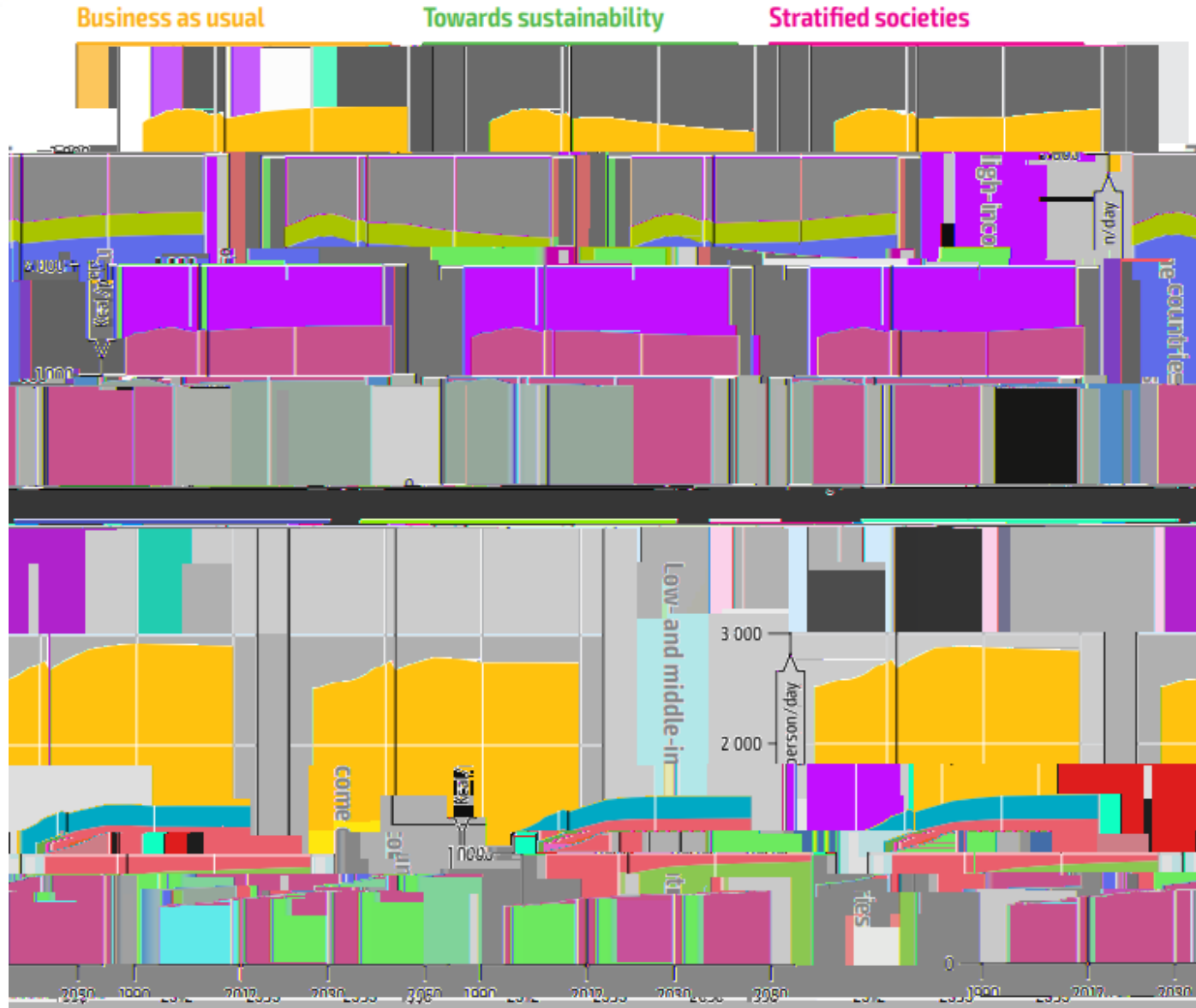




Global Agricultural Producer Price Index



Per capita dietary energy consumption (all food items)



- Cereals
- Fruit and vegetables
- Animal products
- Vegetable oil
- Other food

Towards Sustainability 2050

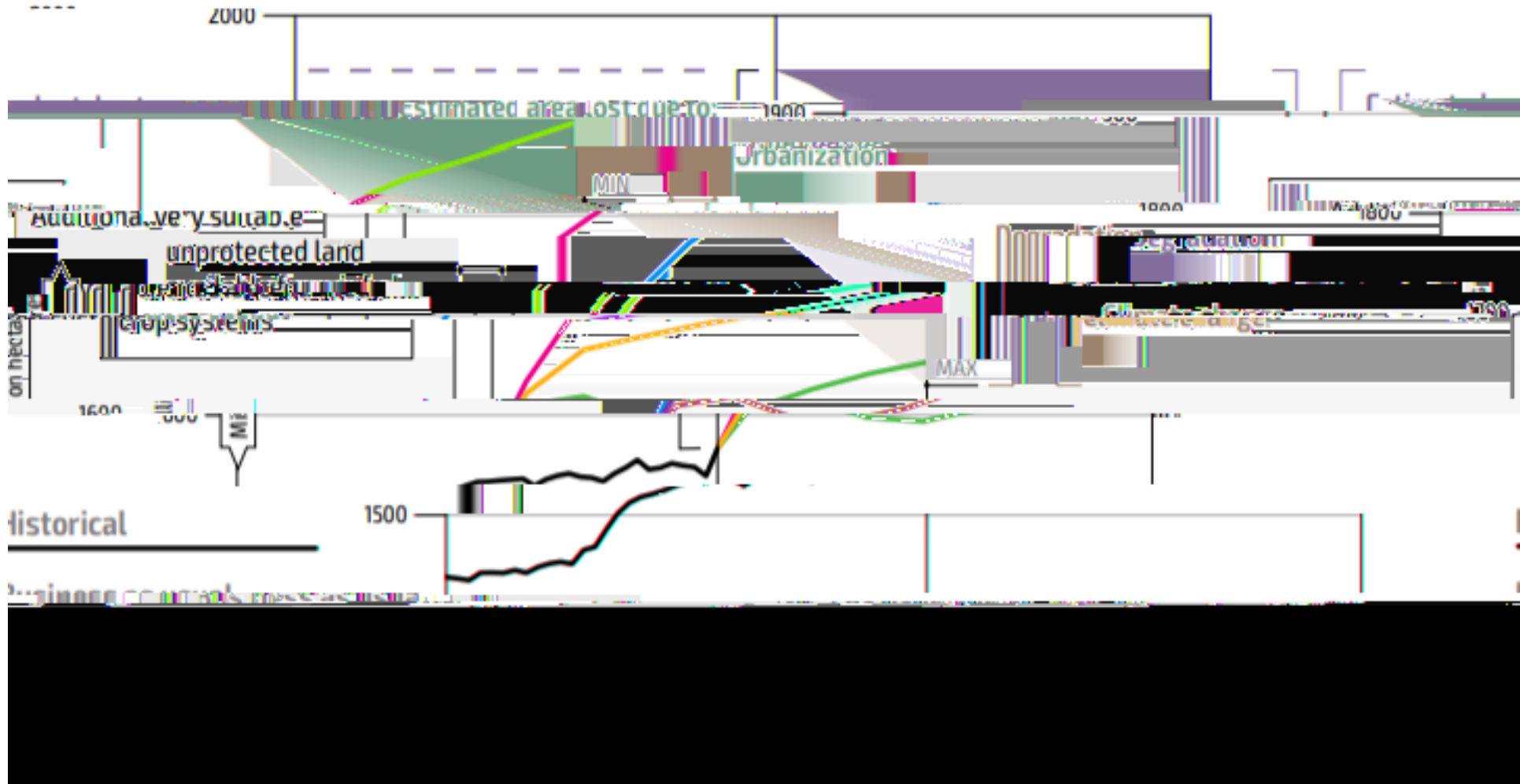
-
-
-
-



Prevalence of undernourishment (PoU)

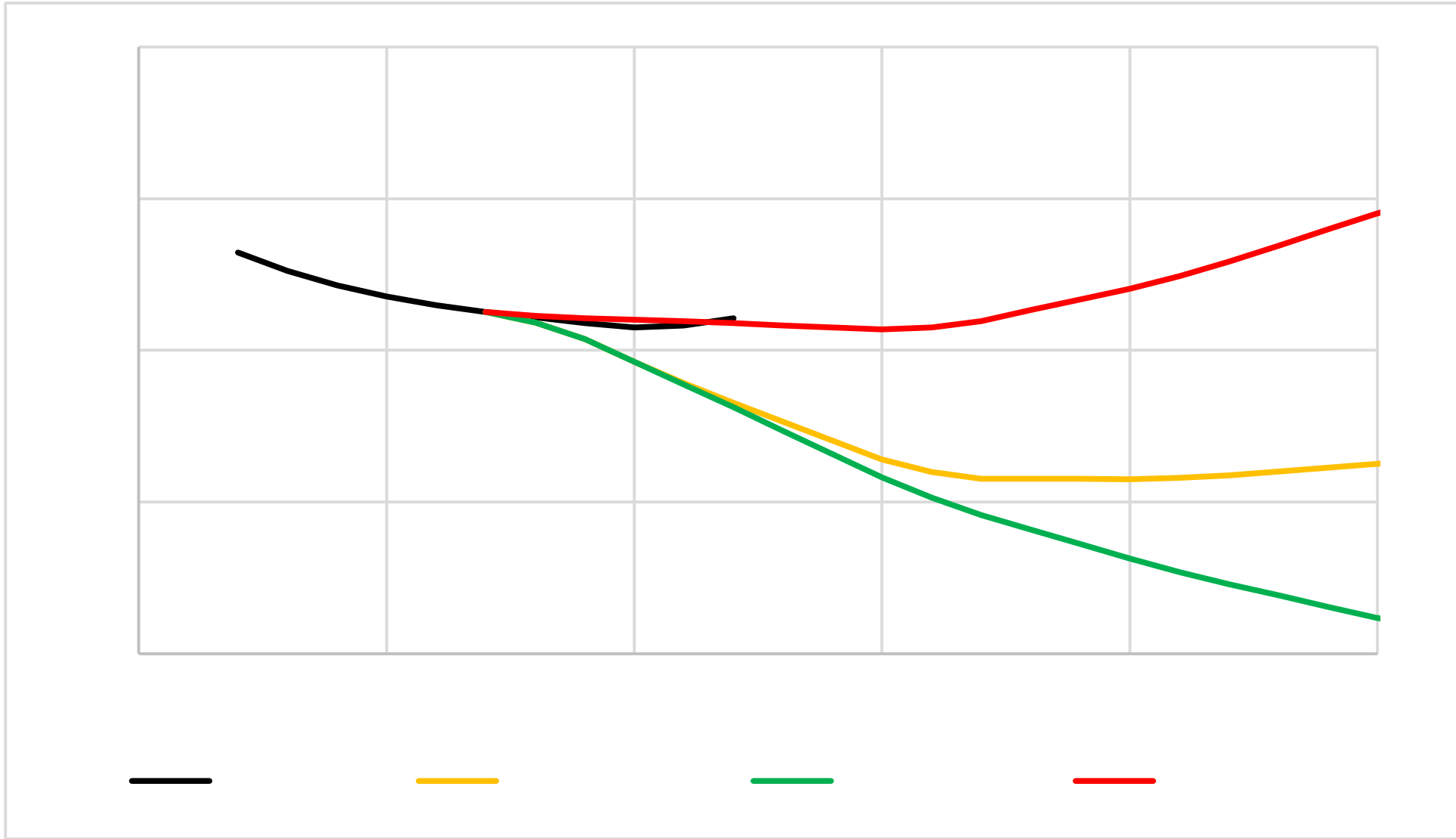


Land use scenarios to 2050





Where are we going? The NoU so far and pojections to 2030





Take away messages





Long-term foresight at FAO

FOFA 2050 material