BENEFITS OF SYSTEMIC AND HOLISTIC APPROACHES TO IMPLEMENTATION OF CLIMATE ACTION ON AGRICULTURE, FOOD SYSTEMS, AND FOOD SECURITY

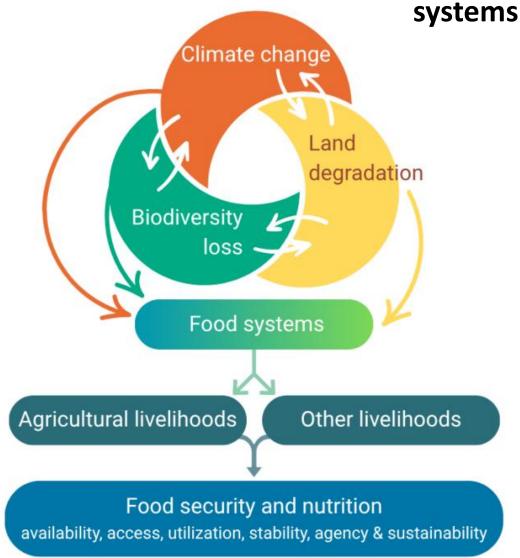
Under the Sharm el-Sheikh joint work on implementation of climate action on agriculture and food security SB 62 (SBI 10 – SBSTA 10) 17 June 2025

## **NOSIPHO NAUSCA-JEAN JEZILE**

Ambassador of the Republic of South Africa in Rome Permanent Representative to the UN Agencies in Rome of the Republic of South Africa Chairperson of the Committee on World Food Security



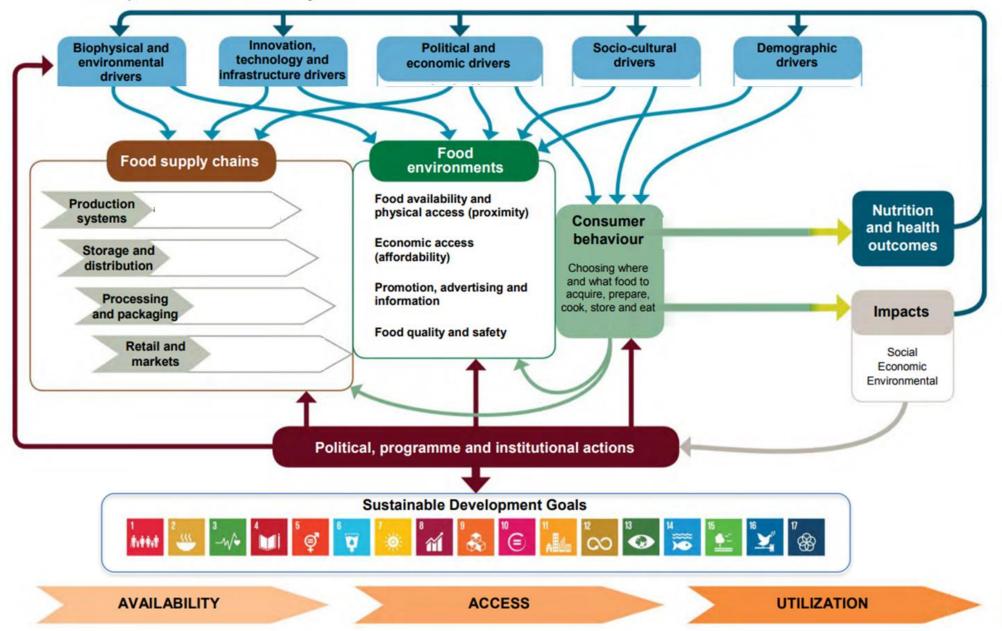
## Cascading impacts of climate change, biodiversity loss and land degradation on food



Note: Climate change, biodiversity loss and land degradation feed each other, and have "cascading impacts" on food systems and people. Increasing temperature, erratic rainfalls, changing distribution of pests and diseases, and more frequent extreme weather events modify the ecosystems, more and more. This impacts crops, livestock, forestry, fisheries and aquaculture, not only the quantity of food, but also its safety and its nutritional content. This will also translate on prices, affecting the incomes of producers and workers along the supply chain and the consumer's access to food. Source: Authors' own elaboration, adapted from FAO. 2015. Climate change and food security: risks and responses. Rome. https://openknowledge.fao.org/handle/20.500.1 4283/i5188e

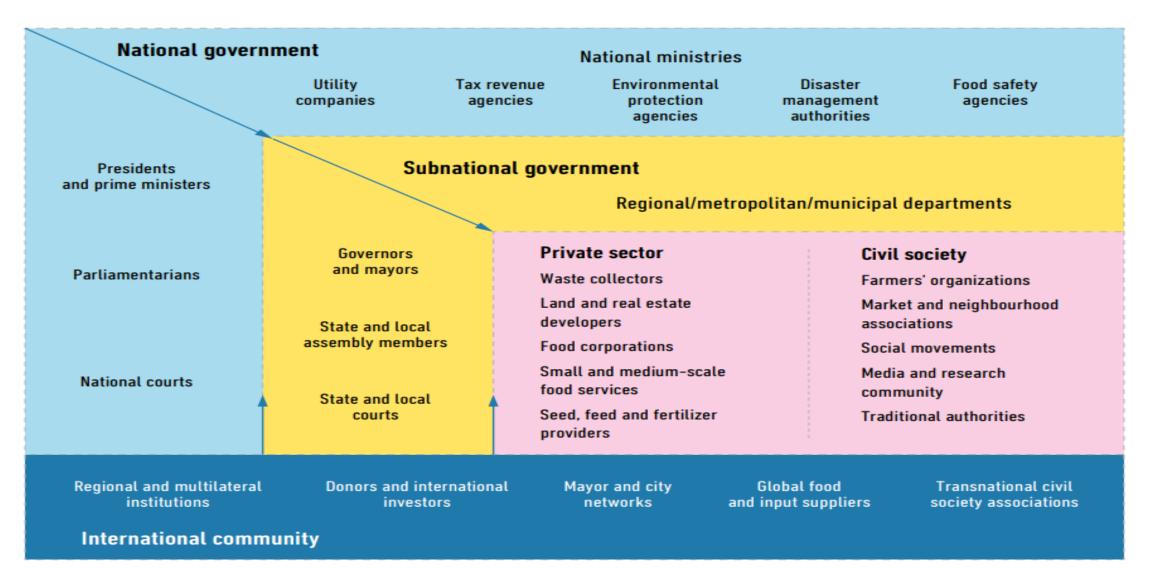
HLPE. 2025. Tackling climate change, biodiversity loss and land degradation through the right to food – Background note for the Committee on World Food Security's High-Level Forum held on 12 May 2025, in Rome, Italy. Rome, FAO.

Conceptual framework of food systems



Adapted from HLPE. 2017. Nutrition and food systems. A report by the High Level Panel of Experts on Food Security and Nutrition of the Committee on World Food Security, Rome.

## MULTILEVEL GOVERNANCE ACTORS RELEVANT TO URBAN AND PERI-URBAN FOOD SYSTEMS



*Notes:* The arrows indicate the interrelationships across levels while the dashed lines convey that the boundaries between these spaces are porous. *Source:* Authors' own elaboration.

HLPE. 2024. Strengthening urban and peri-urban food systems to achieve food security and nutrition, in the context of urbanization and rural transformation. Rome, CFS HLPE-FSN.