



### FSD7-Webinar 3

**Multi-scale and multi-criteria trade-off analysis in the SDG1-SDG2 nexus, to co-design sustainable and healthy agri-food systems and to inform policies**

**Date:** 24 March 2021 - 10.00AM to 12.00PM (GMT+2)

**Chaired by** Hatem Belhouchette (CIHEAM-IAMM) and Pytrik Reidsma (WUR)

#### Objectives

The objective of this session is to present and discuss case studies that have addressed methodological challenges related to the co-design of resilient and sustainable farming systems in dryland areas. More particularly, this session should initiate a debate on the multiscale, multidisciplinary and trade-offs analysis when faced with the challenges of co-designing innovative farming systems with multifaceted objectives including optimal productivity, conserving natural resources and ensuring household food needs. The presentations are selected in order to represent a variety of different biophysical and socio-economic contexts, assessment objectives, and mobilized methods and tools/models that associate, in one way or another, local stakeholders. A final session will be reserved to utilize the former presentations and debates to explore possible areas of action to be promoted in development projects and agricultural policies.

#### Program and speakers

- A short introduction on objectives and expected outcome of the webinar (*Hatem Belhouchette*, 5 min.)
- An introductory statement by a representative of a development agency, donor or country representative, about the value and challenges of application of system research: Addressing climate change challenges to food systems (*Theresa Wong*, *Mohamed Abdel Monem* and *Rachid Serraj*, FAO, 7 min.)
- **Selected presentations:** 10 min. presentation and 10 min. discussion
  1. Scaling up from crop to farm level: co-innovation framework applies to vegetable farm systems sustainability (*Cecilia Berrueta et al.*, INIA-Uruguay)
  2. Farmer research networks for co-designing agro-ecological intensification options in crop-livestock systems of southern Mali (*Katrien Descheemaeker et al.*, WUR-Nederland)
  3. The Utopia of Increasing Crop Diversity and Intensification by Increasing Access to Irrigation Water in Dry Conditions (*Hassan Bazzi*, INRAE-CIHEAM-IAMM-France)
  4. Participatory exploration of transformative pathways for the cooking banana value chain in Uganda (*Esther Ronner et al.*, WUR-Nederland)
  5. A Tri-capital framework for assessing social-ecological systems' resilience in Medenine-Tunisia (*Fatma Aribi, Mongi Sghaier*, ERA-Tunisia)
- Action areas to strengthen the contribution of agri-food systems research in development projects and agricultural policies, based on presentations and findings from the European context (*Pytrik Reidsma*, 7 min.).
- Conclusion: next steps (*Hatem Belhouchette*, 3 min.)