



FSD7-Webinar 1

Systemic transformation of the agri-food systems under climate, water, and planetary constraints: an insight into the opportunities and pathways for transformation and implementation

Date: 22 March 2021 - 10.00AM to 12.00PM (GMT+2)

Chaired by Jacques Wery (ICARDA, Egypt) and Rabi Mohtar (AUB, Lebanon)

Objectives

Webinar 1 aims to discuss opportunities and pathways to implement development projects in the drylands of Africa and Asia, recognizing that approaches based on a single technology (e.g. new varieties) a single commodity (e.g. wheat) or a single resource (e.g. water) are not sufficient to achieve a sustainable transformation of agri-food systems and synergies between SDG1 (no poverty) and SDG2 (no hunger) under climate change and within planet boundaries. The role of systems research for a systemic transformation in development projects will be discussed based on examples of action research, systems modelling and participatory research in different regions.

Program and speakers

- A short introduction of the objectives and expected outcome of the webinar (*Jacques Wery*, 3 min.)
- An introductory statement on “Farming Systems Research and CGIAR’s Research and Innovation Strategy to 2030” (*Marco Ferroni*, Chair, CGIAR System Board, 2 min).
- An introductory statement about the value and challenges of application of systems research in development projects in the drylands: Feedback from ACIAR experience and the [DryArc-Australia dialogue](#) (*Andrew Campbell and Julianne Biddle*, ACIAR, Australia, 7 min.)
- Selected presentations of 8 min + 8 min. discussion:
 - Supporting transition in agrifood systems: a toolbox to enhance open innovation (*Marie-Helene Jeuffroy*, INRAE, France)
 - Assessing policy coherence in the Water-Energy-Food-Ecosystems nexus (*Maria Blanco*, Univ. Madrid, Spain)
 - A Water-Energy-Food Nexus approach for evaluating the sustainability of the plant-based Mediterranean-inspired diet: The Case of Lebanon (*Sandra Yanni*, AUB, Lebanon)
 - Using system dynamics for resilience management of farming systems (*Hugo Herrera*, Univ. Bergen, Norway)
 - Co-designing profitable and resilient crop-livestock systems in Niger and Burkina Faso using a household modelling approach (*Shalander Kumar*, ICRISAT, India)
 - Analysis of Options for Enhancing the Large-Scale Adoption of Conservation Agriculture Practices in Small-Mixed-Farming Systems of North Africa: Case of Tunisia (*Aymen Frija*, ICARDA, Tunisia).
- Action areas to strengthen the contribution of agri-food systems research in development projects (*Rabi Mohtar*, 5 min.)
- Wrap-up and conclusion by the Moderator: *Jacques Wery* (2 min.)