

Innovation and development in agricultural and food systems

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Innovation is often presented as one of the main catalysts for more sustainable and inclusive development. In the agricultural and food sectors, innovation is characterized not only by specificities arising from its relationship to nature, but also from the wide diversity of its stakeholders, ranging from farmers

to consumers, and including intermediaries such as the research community and advisory services. Innovation emerges from interactions between these actors, who mobilize resources and produce knowledge in collaborative mechanisms in order to generate changes. It encompasses domains as varied as production practices, market organization, and eating habits. Innovation is closely tied to major development challenges in its various forms: agroecological innovation, social innovation, territorial innovation, etc.

This book casts a look at innovation in agricultural and food systems. It focuses in particular on supporting innovation, by examining methods and organizations, and on evaluating innovation using different yardsticks. The book is based on reflections and research originating from various scientific disciplines, on fieldwork carried out both in France and in many countries of the Global South, and finally on the experiences gained by accompanying and supporting innovative actors. It combines theoretical contributions on innovation with iconic case studies to illustrate its observations and discussions.

This book is intended for teachers, professionals, students, and researchers.

Guy Faure, director of the Innovation joint research unit, conducts research at CIRAD in the management sciences on methods of intervention and agricultural advisory organizations, with a focus on innovation systems in Africa and Latin America.

Yuna Chiffolleau, sociologist and director of research at INRA, is interested in the processes of innovation in the social construction of markets, in a perspective of sustainability, and analyses the rise of short food supply chains.

Frédéric Goulet, social scientist at CIRAD, is working on innovations in the scientific and technical fields pertaining to agriculture in Latin America and France.

Ludovic Temple, economist at CIRAD, heads a team on innovation and research systems in the agricultural and food sector and also teaches at various universities in the Global South.

Jean-Marc Touzard, economist and director of research at INRA, conducts research on innovations in food systems to address the challenges of food security and climate change.

Summary

Introduction - Reviving perspectives on innovation in agriculture and food systems

Part 1 - Renewing agricultural approaches

Chapter 1 - A history of innovation and its uses in agriculture

Chapter 2 - Agricultural and agrifood innovation in the 21st century: maintaining, erasing or reshaping its specificities?

Chapter 3 - Agricultural research and innovation: a socio-historical analysis

Part 2 - Forms of innovation in agriculture and the food sector

Chapter 4 - Agroecological innovation: mobilizing ecological processes in agrosystems

Chapter 5 - Social innovation through short food supply chains: between networks and individualities

Chapter 6 - Innovation, a precondition for the sustainability of localized agrifood systems

Chapter 7 - Territorial innovation in the relationships between agriculture and the city

Part 3- Providing support to the actors of innovation

Chapter 8 - Designing and organizing support for collective innovation in agriculture

Chapter 9 - Action research in partnership and emancipatory innovation

Chapter 10 - Co-designing technical and organizational changes in agricultural systems

Chapter 11 - Advice to farms to facilitate innovation: between supervision and support

Chapter 12 - The ComMod and Gerdal approaches to accompany multi-actor collectives in facilitating innovation in agroecosystems

Part 4 - Evaluating the effects of innovations

Chapter 13 - The abattoir, from the factory to the farm. Ethics and morality in the dynamics of innovation in agrifood systems

Chapter 14 - Evaluating the impacts of agricultural innovations

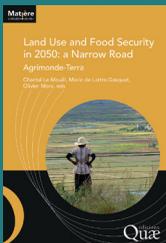
Chapter 15 - Evaluating impacts of innovations: benefits and challenges of a multi-criteria and participatory approach

Chapter 16 - Simulation tools to understand, evaluate and strengthen innovations on farms

Afterword - What types of innovation for sustainable agriculture?

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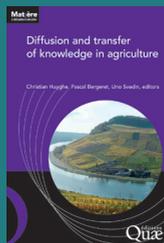
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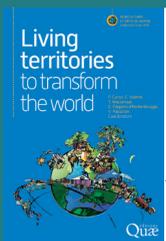


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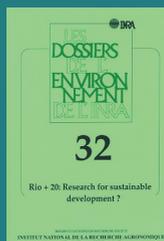


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