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Methodological guidelines for a rapid appraisal of agricultural innovation systems under agroecology (RAAIS-AE)

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The agricultural innovation system (AIS) is an approach that considers agricultural innovation from a multidisciplinary perspective. The Rapid Appraisal of Agricultural Innovation Systems is one of the commonly used operational methods. It involves a series of structured and participatory activities, including interviews, focus group discussions, and stakeholder workshops, to identify the actors, institutions, and relationships involved in the AIS, as well as the strengths and weaknesses of the system. This approach has been structured in such a manner that it adapts easily to different contexts where different stakeholders, such as developers, academicians, and policymakers are working with community members on innovation. A reflection on the concept –what to know (the requirements) and what to get (the outputs) is necessary for coming up with practical, reflective analysis and applicable procedures for a deeper understanding of the context where the innovations are introduced. Following this will enable us to fully understand the bottlenecks in transitioning from conventional systems to an agroecological model thus pinpointing potential entry points for promoting these systems' dissemination and scaling.

KEYWORDS

agricultural innovation system, RAAIS, agroecology, stakeholders, methods

1 Introduction

Commonly, innovation is widely recognized as a key driver of economic development, resource efficiency, and societal progress (Jorgenson, 2011). It plays a crucial role in enhancing economic competitiveness and addressing global challenges (Santiago, 2014). Innovation measurement has expanded to capture a broader range of activities beyond technological product and process innovation (Bloch, 2007). This has led to a broader framework whereby innovation may be classified; for instance, product, process, and auxiliary types of innovation (Wüßler, 2006). In agriculture, innovation is focused on increasing output prices (both yield and income improvements), adapting to changes in the environment, handling social and economic problems, ensuring long-term sustainable land use and value chain development (Schulz et al., 2014).

As a perspective, the innovation system has developed since the 1980s, when it was initiated with the ideas by Freeman (1991) and Lundvall et al. (2002). This approach focuses prominently on how different actors and institutions contribute to the development of innovation (Verbäuer and Tamm, 2012). Despite its widespread adoption, the concept faces challenges in setting system boundaries and providing a dynamic view. To address these issues,

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H Kauffman



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Agro-industrial Policy Reviews Keith Marsden, Maurizio Garzia, Food and Agriculture Organization of the United Nations, 1998-01-01 *WinDASI User Manual*, 2000-01-01 Includes CD ROM **Implications of Economic Policy for Food Security** Anne Margaret Thomson, Manfred Metz, Food and Agriculture Organization of the United Nations, 1999-01-01 A manual aimed at helping policy analysts improve their understanding of the concept of food security and the problems related to it Food security is defined as having an available stable and accessible food supply for each human being The food system including the production and transformation of food is studied to show the causes of food insecurity how international macro level and agricultural sector policies affect the food system and how national and international policies that could improve food security can be identified **Agro-industrial Policy Review** K. Marsden, M. Garzia, 1998 *Regional Integration and Food Security in Developing Countries* Alan Matthews, Food and Agriculture Organization of the United Nations, 2003-01-01 Developing countries are active participants in the formation of regional trade arrangements RTAs but viewpoints differ on the desirability and on the efficient design of regional integration The first objective of this paper is to review the regional integration debate for those involved in the preparation of food security strategies among developing countries The paper concentrates primarily on the economic arguments while acknowledging that political motivations may often be the primary driving force behind RTAs The second objective of the paper is to identify the potential role which regional integration arrangements might make to promoting food security among their members *Food Engineering, Quality and Competitiveness in Small Food Industry Systems with Emphasis on Latin America and the Caribbean* Roberto Cuevas, Food and Agriculture Organization of the United Nations, 2004 This publication sets out a detailed systems analysis approach to the small and medium agro food industries sector in Latin America and the Caribbean region in order to promote food safety and quality as well as enterprise productivity and competitiveness The issues are discussed from food engineering and technology perspectives in light of the complex issues faced by small food industries in the current trading system *Environment in Decentralized Development* Vito Cistulli, Food and Agriculture Organization of the United Nations, 2002-01-01 TV *FAO Publications Titles in Print* Food and Agriculture Organization of the United Nations, 1999 **World Agricultural Economics and Rural Sociology Abstracts**, 1999 **Stakeholders Participation for Strengthening Agricultural Extension Practice and Food Security in Nigeria** Agricultural Extension Society of Nigeria. Conference, 2002 International Labour Documentation International Labour Office. Central Library and Documentation Bureau, 1999 Catalóg Bhliantúil Ireland. Stationery Office, 1998 Les consequences de l'accord sur l'agriculture du Cycle d'Uruguay pour les pays en developpement: Un manuel de formation Stephen Healy, Richard Pearce, Michael Stockbridge, 1998 43 - *Manuel de l'utilisateur de WinDASI Logiciel pour l'analyse economique et financiere des activites agricoles et Rurales* Food and Agriculture Organization of the United Nations, 2002 Bibliographic

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The British National

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Ingenieria de Alimentos, Calidad Y Competitividad en Sistemas de la Pequena Industria Alimentaria Con Enfasis en America Latina Y El Caribe (Boletines de Servicios Agricolas de la Fao) Food and Agriculture Organization of the United Nations,2008-03-30 Las pequenas industrias alimentarias operan dentro de una red de fuerzas micro y macroeconomicas sociales y tecnicas que determinan la competitividad dentro del sector Este Boletin propone utilizar el enfoque de sistemas para establecer el contexto analitico para todos los factores que afectan la calidad y la inocuidad alimentaria y por lo tanto la competitividad de la industria alimentaria Las ideas propuestas en este Boletin se dirigen desde el punto de vista de la perspectiva de la ingenieria y tecnologia alimentaria a temas complejos enfrentados por las pequenas industrias en los mercados actuales donde alimentos de alta calidad e inocuidad son demandados por los consumidores y donde todas las empresas grandes o pequenas deben ser competitivas para sobrevivir y tener exito Publicado tambien en ingles **Manual del usuario para WinDASI** ,2002-12-30 WinDASI realiza analisis financieros y economicos de actividades agricolas y rurales en un contexto multiperiodo y permite crear una estructura para organizar datos de insumos y produccion precios por unidad e inversion por actividad y periodo de tiempo De esta forma se pueden realizar agregaciones flexibles de diferentes actividades y ejecutar la mayoria de las operaciones de un analisis de coste beneficio Se calculan en el manual el total de insumos y productos en terminos fisicos los flujos de costes y beneficios y su aumento los valores actuales y los valores actuales netos la tasa de rendimiento interno los valores criticos y las relaciones coste beneficio y se ofrecen pruebas de sensibilidad WinDASI es un programa muy adecuado para el analisis de proyectos de inversion En casos de actividades multiperiodo como los cultivos permanentes o la ganaderia WinDASI puede realizar un analisis de sistemas de granjas y de cadenas productivas y crear matrices de analisis de politica Esta publicacion incluye las instrucciones para la instalacion y el funcionamiento del programa WinDASI la descripcion de las principales operaciones realizadas y las instrucciones para la ejecucion de ejercicios practicos Ademias incluye un CD ROM que contiene el programa WinDASI el manual del usuario en formato electronico y ejercicios practicos **Resources in Education** ,1998

Implicaciones de las politicas economicas en la seguridad alimentaria: manual de capacitacion Anne Thomson,1999

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