

# **Agricultural information systems and their applications for development of agriculture and rural community, a review study**

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**Abstract:** This review paper presents the background introduction, theories, literature review and analysis of information systems in agriculture. The usefulness of information for agriculture, sources of agricultural information, types of information needs for agricultural development, problems of dissemination of agricultural information are discussed. The study is mainly to identify agricultural information system components, their availability, the understanding of how successfully they work, problems associated with them and how to improve their performances. The review of analysis methods and process of agricultural information systems are also explained. They can also be used to develop suggestions to solve the common problems in agriculture information systems, to improve the policy programs, the extension<sup>1</sup> and research activities, and to manage information on agriculture. Finally, general conclusions about agricultural information systems are emphasized and implications for further development of agriculture information systems are presented.

**Key words:** Agricultural information systems, Information need of farmers, Agricultural information dissemination

## **1. Introduction**

### **1.1. Importance and needs of agricultural information systems for agricultural development**

Agricultural information is an important factor that interacts with other production factors. Productivity of these other factors, such as land, labor, capital and managerial ability, can arguably be improved by relevant, reliable and useful information. Information supplied by extension<sup>1</sup>, research, education and agricultural organizations helps farmers make better decisions. Therefore, there is a need to understand the functioning of a particular agricultural information system in order to manage and improve it (Demiryurek et al., 2008).

According to the findings of Maningas et al. (2000), information within the hands of the farmers means empowerment through control over their resources and decision-making processes. They noted that being an effective and efficient delivery system of essential information and technology services facilitates the clients' critical role in decision-making towards improved agricultural production, processing, trading, and marketing. Food and Agriculture Organization

# Systems Studies In Agriculture Rural D

**Berdegúé, Julio A., Trivelli,  
Carolina, Vos, Rob**



## **Systems Studies In Agriculture Rural D:**

A History of Farming Systems Research Michael P. Collinson, 2000 This book provides a detailed history of farming systems research FSR While it includes the application of FSR to developed country agriculture its main focus is on FSR in its original role with small scale resource poor farmers in less developed countries There are some 40 contributions from nearly 50 contributors from 20 countries illustrating both the diversity and yet the coherence of FSR The five parts of the book cover 1 FSR understanding farmers and their farming FSR origins and perspectives understanding farming systems 2 the applications of farming systems research FSR in technology choice and development FSR in extension and policy formulation 3 institutional commitment to FSR FSR some institutional experiences in national agricultural research dimensions of the organization of FSR training for FSR 4 FSR the professional dimension regional and international associations FSR and the professional disciplines and 5 cutting edge methods abiding issues and the future for FSR **Livestock System Research Manual ,**

**Farming Systems Research into the 21st Century: The New Dynamic** Ika Darnhofer, David Gibbon, Benoît Dedieu, 2012-05-30 Farming Systems Research has three core characteristics it builds on systems thinking it depends on the close collaboration between social and biophysical sciences and it relies on participation to build co learning processes Farming Systems Research posits that to contribute towards sustainable rural development both interdisciplinary collaborations and local actor engagement are needed Together they allow for changes in understanding and changes in practices This book gives an overview of the insights generated in 20 years of Farming Systems Research It retraces the emergence and development of Farming Systems Research in Europe summarises the state of the art for key areas and provides an outlook on new explorations especially those tackling the dynamic nature of farming systems and their interaction with the natural environment and the context of action *Bibliography of Agriculture* ,1990 Federal

Information Sources & Systems , Critical Adult Education in Food Movements Colin R. Anderson, Rosa Binimelis Adell, Michel P. Pimbert, Marta Rivera Ferre, 2022-11-21 This book focuses on research that shows the importance of critical adult education for the spread of food sovereignty and agroecology to more people and places It pays particular attention to the important role that learning education and pedagogy can play in social transformation for food sovereignty and justice an approach referred to broadly as Learning for Transformation It reveals common dynamics and principles that critical education for food sovereignty share in different contexts The book draws together 8 chapters that offer new critical insights about why where and how learning for transformation is being implemented and what next Previously published in *Agriculture and Human Values* Volume 36 issue 3 September 2019 Chapter Transformative agroecology learning in Europe building consciousness skills and collective capacity for food sovereignty is available open access under a Creative Commons Attribution 4.0 International License via link [springer.com](https://www.springer.com) **Land-tenure policy reforms: Decollectivization and the**

**Doi Moi system in Vietnam** Michael Kirk, Nguyen Do Anh Tuan, **Federal Register** ,2006-10 **Towards an agenda**

**of agricultural research in Europe** A. Boekestein, P. Diederer, W.M.F. Jongen, R. Rabbinge, H. Rutten, 2000-03-01 Directors of research leaders of the public debate government officials and scientific experts give their view on the future of agricultural research The priorities for the next decades in the 21st century are discussed Agriculture and consequently agricultural research are now localised in a much broader perspective The focus is on Europe but the interaction with the other parts of the world is taken into account Towards an Agenda for Agricultural Research in Europe gives a valuable overview of what is going on in Europe with regard to foresight studies and topics like sustainable development consumer orientation safety and quality of food environmental issues non food agroproduction land use the potential of biotechnology and new ways of structuring and steering of agricultural research This book is indispensable in the next coming years as a guide for all those involved in policy and decision making for agricultural research and agriculture *Food Security, Agricultural Productivity, and the Environment: Economic, Sustainability, and Policy Perspectives* Ranjan Kumar Ghosh, Jens Rommel, Ilona M. Otto, 2022-04-26 **Federal Information Sources and Systems**, 1984 Includes subject agency and budget indexes **Employment impacts of agrifood system innovations and policies: A review of the evidence** Berdegué, Julio A., Trivelli, Carolina, Vos, Rob, 2025-03-18 The food sector constitutes the largest global source of employment supporting the livelihoods of most of the world's poor and vulnerable populations This article provides an extensive review of the available evidence of the employment effects of innovations and policy interventions in agrifood systems and value chains in low and middle income countries LMICs The review was guided by a two part hypothesis 1 food systems currently underperform in terms of their potential for generating decent jobs and income opportunities and 2 this gap is only growing as expanding food markets and existing agrifood supply chain business models skew gains to the disadvantage of smallholders agrifood small and medium enterprises SMEs and food sector workers **Agile Data-Oriented Research Tools to Support Smallholder Farm System Transformation** James Hammond, Mark Van Wijk, Aniruddha Ghosh, Tim Pagella, Jacob Van Etten, 2023-05-09 Smallholder farming systems contribute a substantial quantity of the food consumed in many lower and middle income countries and contribute to the national and local economies Despite the importance of smallholder farming a transformation is needed in order to deliver food security and decent incomes for the farmers themselves and at the national level This transformation must also be sustainable in terms of environmental impacts and social equity in order to be successful in the long term The pressures of population growth climate change and land fragmentation compound the problem Addressing these overlapping issues is a big challenge One obstacle is the lack of good quality granular data linking these issues together Household surveys are the workhorse method for gathering such data but there are well known problems that prevent household survey data from building up a big picture and delivering insights beyond the geographical boundary of each individual study Such obstacles include the lack of access to datasets differences in survey design and respondent biases Agile data oriented research tools can help to overcome these challenges We use the

term agile to imply methods that do not attempt exhaustive measurements which are designed to be easy to use and which entail some degree of flexibility in terms of adaptation to local conditions and integration with other tools or methods. Often these methods also nudge the behavior of tool users towards best practices. In recent years various research tools and approaches have been published which fit within our definition of agile data oriented research tools. The domains these tools function in include monitoring and evaluation, intervention targeting, tailored information delivery, citizen science, credit scoring and user feedback collection, all with the overarching aim to improve data quality and access for those studying the sustainable development of smallholder farming systems. The goal of this Research Topic is to better define that niche, the ecosystem of tools and current practices, and to explore how such approaches can provide the underpinning knowledge required for the transformation of smallholder farming systems. One example of an agile data oriented research tool is the Rural Household Multi Indicator Survey (RHoMIS). It is a modular digital system for building household surveys addressing the common topics in smallholder development. It was purposefully designed to give a broad overview of the farm system whilst keeping survey duration to a minimum, to be user friendly in implementation and to be sufficiently flexible to function in a broad variety of locations and projects. Since 2015 it has been used by 30 organizations in 32 countries to interview over 34 000 households. The tool and database are open access and a community of practice is developing around the tool. We particularly welcome contributions that engage with the RHoMIS tool and data. However we also describe the tool in order to provide an example of what is meant by an agile data oriented research tool and welcome contributions focusing on other tools or methodologies. We encourage the submission of manuscripts addressing the above topic and those which fit within one of the following three sub themes:

- i Perspectives or review articles which explore the niche, best practices or promising approaches in agile data oriented research tools for smallholder farm system transformation. Also technology and code articles that describe new tools are welcomed.
- ii Original research articles presenting analyses based on data derived from agile data oriented tools used at the project level. Examples include impact evaluations, adoption studies, targeting studies or adaptive management and should reflect on the additional benefit leveraged by the agile method applied.
- iii Original research articles that make use of the large amounts of data generated by such agile methods and/or link between agile data and other data sources. Examples include meta analyses of data from multiple studies, layering data collected from different agile tools or linking agile data to remote sensing or large scale modeling outputs.

Farming Systems Research Jayne T.

MacLean, 1989 *Farming Systems Research And Development* W. W. Shaner, 2019-03-08. In recent years policy makers have been paying more attention to the problems of small farmers in developing countries with the idea of increasing their production and standard of living. The policy makers' objectives are twofold: 1) to help those whose welfare is materially below the rest of society and 2) to help a country increase its agricultural production. With adequate agricultural policies these two objectives are mutually reinforcing. For example, increased food production gives farm households additional food

for consumption and surpluses for sale Farmers can then use the money from these sales to buy items they do not produce and the buyers of farm products benefit from the increased supplies *Cultivating Biodiversity to Transform Agriculture* Étienne Hainzelin, 2013-12-04 How can cultivated plant biodiversity contribute to the transformation and the ecologization of agriculture in Southern countries Based on extensive field work in the Southern countries a great deal of scientific progress is presented in all areas affecting agriculture agronomy plant breeding and crop protection cultivation systems etc in order to intensify the ecological processes in cultivated plots and at the scale of rural landscapes **The Status of Youth in**

**Agrifood Systems** Food and Agriculture Organization of the United Nations, The world's agrifood systems stand at a crossroads With 1.3 billion youth globally the future of food livelihoods and economic resilience depends on their participation in agrifood systems At the same time agrifood systems need youth to drive productivity innovation and sustainability in a crucial and rapidly evolving sector FAO's *The Status of Youth in Agrifood Systems* report is a call to action It presents the most comprehensive evidence based analysis of youth in agrifood systems to date highlighting both the opportunities and structural barriers that shape their engagement It explores how transforming agrifood systems can enhance decent job opportunities and food security for youth and how empowered youth can drive this transformation It concludes highlighting policy recommendations and areas of investments to foster more equitable and sustainable agrifood systems where rural youth are both beneficiaries and leaders of change Transmission, Distribution, and Renewable

Energy Generation Power Equipment Bella H. Chudnovsky, 2017-03-07 The revised edition presents extends and updates a thorough analysis of the factors that cause and accelerate the aging of conductive and insulating materials of which transmission and distribution electrical apparatus is made New sections in the second edition summarize the issues of the aging reliability and safety of electrical apparatus as well as supporting equipment in the field of generating renewable energy solar wind tide and wave power When exposed to atmospheric corrosive gases and fluids contaminants high and low temperatures vibrations and other internal and external impacts these systems deteriorate eventually the ability of the apparatus to function properly is destroyed In the modern world of green energy the equipment providing clean electrical energy needs to be properly maintained in order to prevent premature failure The book's purpose is to help find the proper ways to slow down the aging of electrical apparatus improve its performance and extend the life of power generation transmission and distribution equipment **Future Food Systems** Rickey Y. Yada, Rene Van Acker, Martin Scanlon, David

Gray, 2024-06-13 *Future Food Systems* Exploring Global Production Processing Distribution and Consumption provides an overview of food systems from farming through to logistics processing retail service and consumption with the intention of enabling more efficient development of policy and implementation of food related practices The book presents the considerations which must be understood to develop effective and efficient policies and practices for any level of food system and along the continuum of those systems with attention being given to the academic public and private sector challenges

and opportunities for progress efficiency effectiveness and sustainability Presented in parts to highlight key aspects of the subject area the book explores production practices including increasingly important programs in integrated farming systems vertical agriculture and urban farming processes value adding for commodities agricultural technology supply chain innovations and consumer considerations The book provides foundational insights into the underpinnings of today s food systems its challenges and its opportunities for the future Written by industry and academic experts for balanced perspective Presents foundational information with practical application insights Includes chapters on regulatory and policy issues

**Perspectives for Agronomy** M.K. van Ittersum, S.C. van de Geijn, 1997-12-11 During the 4th ESA Congress held in the Netherlands 7-11 July 1996 a new perspective for agronomy emerged Various contributions demonstrate the need for a new role of agronomy and its tools In recent decades agriculture has evolved from an activity with mainly productivity aims into an issue conciliating environmental agricultural and economic and social objectives Placing agriculture in such a broadened perspective requires a different agronomy with new tools and approaches at a range of aggregation levels It calls for detailed knowledge concerning the functioning productivity and ecological relationships of agricultural plants and crops In addition it calls for a constant update and synthesis of existing and newly generated knowledge the design of new ideotypes and genotypes new production technologies cropping systems farming systems and agro ecological land use systems This proceedings book presents a set of case studies illustrating the various agronomic tools that can be used for specific agronomic questions The case studies are grouped in sections illustrating relevant subquestions in developing an agriculture with broadened objectives The book starts with an introductory paper on the role of agronomy in research and education in Europe The second section deals with agricultural land use food security and environment This is followed by a set of papers describing experimental research and modeling approaches used to design new ideotypes of crops including physiological properties in relation to growth factors such as radiation CO<sub>2</sub> temperature and water Sustained soil fertility directly links to nutrient cycling and soil organic matter A selected set of papers addresses the improvements in resource use efficiency and as such their contribution towards economic environmental and agricultural objectives The final section addresses the design of integrated and ecological arable farming systems It highlights the role of prototyping interaction with leading edge farmers as promising tools to design implement and test new farming systems It is hoped that the activities of the European Society for Agronomy and the Proceedings of its 4th Congress will stimulate to serve the new perspectives of agronomy i.e. to adopt ecological principles to optimally manage the use of resources and to meet social and economic objectives

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