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From fields to farms and farming systems by Ken Giller  
Farming Systems Research Into The

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

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sustainable rural development, both interdisciplinary collaborations and local actor engagement are needed.

*Farming Systems Research into the 21st Century: The New ...*

Farming Systems Research into the 21st Century: The New Dynamic. June 2012; DOI: 10.1007/978-94-007-4503-2\_16. In book: Farming Systems Research into the 21st century: A new dynamic (pp.365-385)

*(PDF) Farming Systems Research into the 21st Century: The ...*

Farming Systems Research is usually situated in rural areas, but also reaches into urban areas, e.g. when studying agro-food networks. However , a territorial de fi nition

*(PDF) Farming Systems Research into the 21st Century: The ...*

Farming Systems Research into the 21st Century 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, summarizes 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 ...

*Farming Systems Research into the 21st Century: The New ...*

Farming Systems Research: An approach to inquiry

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Initially, Farming Systems Research took the farm as a starting point for an analysis of a broad range of issues linked to agricultural production. Soon afterwards, it was recognised that to understand farming, the scale of analysis needed to be broadened, to capture the interactions between farms and their natural, social and economic context.

*Farming Systems Research: An approach to inquiry |*  
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Abstract. Initially, Farming Systems Research took the farm as a starting point for an analysis of a broad range of issues linked to agricultural production. Soon afterwards, it was recognised that to understand farming, the scale of analysis needed to be broadened, to capture the interactions between farms and their natural, social and economic context.

*Farming Systems Research: an approach to inquiry ...*  
Farming Systems Research into the 21st Century. The New Dynamic. Edited by I. Darnhofer, D. Gibbon and B. Dedieu. Dordrecht: Springer Science + Business Media (2012), pp. 490, ISBN 978-94-007-4502-5 [US/European context] Collinson, M. (2000) A history of farming systems research. Wallingford, UK.

*Farming Systems Research - Extension Practice*

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Farming Systems Research is an intellectual way of life, a worldview, a concept of the nature of reality and how to investigate it. How this 'worldview' is translated into conceptualising research and

*Farming Systems Research: An approach to inquiry*<sup>1</sup>

Farming system is an integrated set of activities that farmers perform in their farms under their resources and circumstances to maximize the productivity and net farm income on a sustainable basis. The farming system takes into account the components of soil, water, crops, livestock, labour, capital, energy and other resources, with the farm

*FARMING SYSTEMS APPROACH Introduction*

The term FSR/E in the broadest sense refers to any research and extension that views the farm in a holistic manner and considers interactions in a system (CGIAR, 1978). FSR is an approach to agricultural research and development that views the whole farm as a system and focuses on (i) The interdependencies between the components under the control of members of the household, and (ii) How these components interact with the physical, biological and socioeconomic factors not under the household's ...

*Farming system research - SlideShare*

New findings suggest that more intensive agriculture might be the "least bad" option for feeding the world while saving its species – provided use of such "land-efficient" systems prevents further conversion of wilderness to farmland. Agriculture that appears to be

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more eco-friendly but uses more land may actually have greater environmental costs per unit of food than “high-yield” farming that uses less land, a new study has found.

*‘High-yield’ farming costs the environment less than*

...

Farming Systems Research and Extension (FSR/E) has strongly influenced the direction of agricultural development over the past two decades. Involving farmers, change agents and researchers, this participatory approach to technological improvement has evolved as an efficient means to develop individual components and more integrated systems that are uniquely suited to specific biophysical and socioeconomic conditions.

*"FARMING SYSTEMS RESEARCH/EXTENSION AND THE CONCEPTS OF ...*

Farming systems typically include multiple subcomponents with different management requirements, all competing for limited biomass, labor, and cash investments. As most impact studies do not recognize component interactions, they look at isolated system components to analyze potential effects and not at the entire farming system.

*Farming Systems - an overview | ScienceDirect Topics*

This larger effort, the Farming Systems Research (FSR) approach, emerged in the late 1970s as a response to the criticism that new agricultural technology was frequently irrelevant to small-scale farmers. FSR is a systematic attempt to involve small-scale farmers more actively in research and

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*Sociology in farming systems research - - Books or book ...*

PDF | On Jul 8, 2011, Surinder Singh Rana published Farming Systems and Sustainable Agriculture | Find, read and cite all the research you need on ResearchGate

*(PDF) Farming Systems and Sustainable Agriculture*  
Welcome to farming of the future : a hi-tech, capital-intensive system of growing food sustainably and cleanly for the masses. Here are the facts. Each second, the world's population grows by nearly three more people, that is 240 000 people a day.

*ISO - The future of farming*

The different types of farming systems are practiced as a matter of necessity. Major factors that influence to follow different farming systems are the availability of labor, capital, water, land, climate, and landscape. Below are the types of farming systems followed all over the world :

*Types Of Farming Systems - Learn Natural Farming*

The FFSG conducts rigorous interdisciplinary research that aims to understand and meet the needs of a wide range of future farming systems. It also aims to understand and engage with farmers and their influencers and so precipitate beneficial change in farming systems and practices both nationally and internationally.

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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.

Long-Term Farming Systems Research: Ensuring Food Security in Changing Scenarios presents the legacy and heritage of Long-Term Experiments (LTEs) in Agriculture while also addressing the challenges and potential solutions. The book discusses how LTEs form an important asset in understanding agriculture's significant influence on life on earth. As global governments and development agencies try to achieve the Global Sustainable Development Goals (SDGs) of the United Nations, this book's content is of unprecedented importance, providing insights into the interactions of agricultural production with ecological, economic and societal aspects. In this regard, this book offers a thorough resource of information based on experiences from various

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ongoing LTEs in different parts of the world. The contextual variety and geographic diversity presented in this book makes it useful for agricultural and environmental scientists, as well as students and educators in such fields. --- From the Editors: "Thanks to the excellent panel of our contributing authors, in this book, we have attempted to offer the widest possible thematic and geographical coverage on LTEs. Experts from different institutions leading LTEs across the globe have provided their perspectives on different aspects of LTEs, not only highlighting the unique knowledge contribution of LTEs, but also discussing the unique challenges of effectively managing LTEs and maintaining their relevance to changing scenarios. We hope that this book will offer something for everyone interested in the history, present and future of our agroecosystem." Provides a comprehensive resource of information generated in various LTEs across the globe, with a focus on various aspects of farming systems, crop management practices, plant, soil and human nutrition as well as on capacity development Presents a holistic view on interactions of agricultural production and its relationship to the environment and society Identifies challenges and lessons learned from different LTEs and provides recommendations for potential solutions

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

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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.

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.

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A joint FAO and World Bank study which shows how the farming systems approach can be used to identify priorities for the reduction of hunger and poverty in the main farming systems of the six major developing regions of the world.

Knowledge of Africa's complex farming systems, set in their socio-economic and environmental context, is an essential ingredient to developing effective strategies for improving food and nutrition security. This book systematically and comprehensively describes the characteristics, trends, drivers of change and strategic priorities for each of Africa's fifteen farming systems and their main subsystems. It shows how a farming systems perspective can be used to identify pathways to household food security and poverty reduction, and how strategic interventions may need to differ from one farming system to another. In the analysis, emphasis is placed on understanding farming systems drivers of change, trends and strategic priorities for science and policy. Illustrated with full-colour maps and photographs throughout, the volume provides a comprehensive and insightful analysis of Africa's farming systems and pathways for the future to improve food and nutrition security. The book is an essential follow-up to the seminal work *Farming Systems and Poverty* by Dixon and colleagues for the Food and Agriculture Organization (FAO) of the United Nations and the World Bank, published in 2001.

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Sustainable intensification has recently been developed and adopted as a key concept and driver for research and policy in sustainable agriculture. It includes ecological, economic and social dimensions, where food and nutrition security, gender and equity are crucial components. This book describes different aspects of systems research in agriculture in its broadest sense, where the focus is moved from farming systems to livelihoods systems and institutional innovation. Much of the work represents outputs of the three CGIAR Research Programs on Integrated Systems for the Humid Tropics, Aquatic Agricultural Systems and Dryland Systems. The chapters are based around four themes: the conceptual underpinnings of systems research; sustainable intensification in practice; integrating nutrition, gender and equity in research for improved livelihoods; and systems and institutional innovation. While most of the case studies are from countries and agro-ecological zones in Africa, there are also some from Latin America, Southeast Asia and the Pacific.

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