

DIGITALIZATION OF AGRI-FOOD SUPPLY CHAINS: FACTS AND PROMISES OF BLOCKCHAIN TECHNOLOGY

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Abstract With the globalization agri-food supply chains become longer and more complex, what makes it difficult to manage. parallel with this there is increasing customer demand for knowing the origin, ingredients and delivery chain of agricultural products. the need for more efficient, traceable and visible supply chain for agri-food products appears from supply side. The digital methods of industry 4.0 are able to provide solutions for these demands particularly those which are able to trace product reliable way from its origin to consumption. blockchain is a disruptive technology by which every important product information can be collected, stored and shared with the actors involved in the product process chain from the first phase to the final customer. The paper provides an overview about blockchain technology and its operation in agri-food supply chains environment, then presents some examples from the practice of different countries where blockchain was applied in the agricultural sector in order to introduce experiences as facts, and further possibilities as promises by blockchain.

Keywords:
digitalization,
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Information Technology In Agri Food Supply Chains

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Optimization in the Agri-Food Supply Chain Mayssa Koubaa, Mohamed Haykal Ammar, Diala Dhouib, Sirine Mnejja, 2024-10-08

Frontiers in agri-food supply chains Professor Sander de Leeuw, Dr Renzo Akkerman, Dr Rodrigo Romero-Silva, 2024-05-07 Provides a comprehensive overview of the challenges facing agri food supply chains including the need to be more sustainable in light of the high environmental costs of global distribution Addresses the external factors that can impact the logistics and performance of supply chains including political developments international conflicts and pandemics such as COVID 19 Reviews the main agri food supply chains used in different regions around the world focussing on those implanted in the Americas Europe Africa Asia and the Middle East

Instant Insights: Optimising agri-food supply chains Various authors, Professor Sander de Leeuw, Dr Rodrigo Romero-Silva, Dr Samantha Islam, Professor Louise Manning, Dr Jonathan M. Cullen, Dr Aleksandra Kowalska, Dr Hamid El Bilali, Professor Gerhard Schiefer, 2024-09-24 Considers recent advances in agri food traceability systems and technologies Reviews the role of food governance and technology in product recalls in food supply chains Addresses the main causes of food losses and waste in agri food supply chains and how they can be prevented reduced

CIGR Handbook of Agricultural Engineering: Information technology International Commission of Agricultural Engineering, 1999

[Improving standards and certification in agri-food supply chains](#) Professor Louise Manning, Dr Amanda Hielm, Dr Gregory Sampson, Ms Pilar Pampin, Dr Jo Treweek, Dr Mona McCord, Ms Deanna Newsom, Dr Anna Thorning, Professor James Monaghan, Dr Evelien De Olde, 2024-11-12 Considers a range of techniques used for measuring compliance and improving performance across the agri food supply chain including those used to measure on farm carbon footprints and biodiversity Provides a useful and comprehensive context to the role of governments and other food safety agencies in setting safety quality and sustainability standards for global agri food supply chains Reviews the key issues in developing voluntary standards focussing on those encountered during the development of robust carbon neutral and biodiversity offsetting certification schemes

Intelligent Agrifood Chains and Networks Michael A. Bourlakis, Ilias P. Vlachos, Vasileios Zeimpekis, 2011-02-25 Food has a fundamental position in society ensuring health happiness and political stability Consequently the management of food chains and networks is one of the most important aspects of the modern food industry Yet food is difficult to handle along long supply chains with a limited window for storage and handling time and the risk of spoiling if incorrectly handled or processed These issues can lead to logistical problems that can severely affect product quality and freshness Intelligent Agrifood Chains and Networks offers a timely discussion of the current state of food logistics and indicates the major ICT problems that can occur during production warehousing transportation and retailing Emphasis is given to new technologies and intelligent systems that are able to process time dependent information handle emergencies and support logistics operations in food management In particular the authors show how telematics and RFID can be implemented in the supply chain The book also includes real life case studies in which

actual food logistics problems and their solutions are presented demonstrating how systemic and logistics approaches may be combined The book is directed at academics researchers and students seeking the necessary background in terms of the interplay between the food supply chain and ICT Its comprehensive review of current issues in the food supply chain will be of interest to managers and technicians working in the food industry while its technological focus will be invaluable to food scientists and technologists working in research and industry environments

How is Digitalization Affecting

Agri-food? Maria Carmela Annosi, Federica Brunetta, 2020-10-29 Using real cases of food firms and agriculture supply chains as a context How is Digitalization Affecting Agri food New Business Models Strategies and Organizational Forms aims to understand the key themes in strategic and organizational research in this area Despite the importance of food and agriculture in the current political and societal context analysis of the impact of digitalization and information technologies on the industry is still limited The objective of this monograph is to understand the direction of this change With case studies of food firms and agriculture supply chains it sets out to conceptualize food organizing and organizations as a fruitful object of inquiry both at the intra and interorganizational levels It aims to understand new business models strategies and organizational forms Contributions in this stream of research have the potential to yield important and relevant insights for both scholars and societies This book is written primarily for academics engaged in innovation management or strategy or conducting organizational behavior research It will also be of relevance to practitioners and managers in the agri food industry

Supermarkets and Agri-food Supply Chains David Burch, Geoffrey Lawrence, 2007 This book analyses the gradual shift in the distribution of power in agri food supply chains away from the manufacturers of branded food products to the global supermarket chains such as Wal Mart and Tesco This transformation has had a profound effect on the food we eat together with the ways in which food is produced processed and marketed The authors assess the causes and consequences of this transformation and evaluate the impacts along the whole supply chain The book considers a variety of theoretical and cultural approaches to the analysis of change in the organization and management of the agri food supply chain and presents a series of studies focusing upon the effects of changes in Europe North America and less developed countries The impacts on farmers and workers and implications for the environment are also considered The contested nature of these changes suggests a number of possible future scenarios for the global agri food system which are also analysed and evaluated This book will be of great interest to postgraduate and undergraduate students in business studies sociology politics geography and cultural studies Academic researchers and teachers and policy makers and researchers in business government and industry will also find much of interest

E-commerce and Electronic Markets in Agribusiness and Supply Chains

European Association of Agricultural Economists. Seminar, 2001

The Transformation of Agri-food Systems Ellen B. McCullough, Prabhu L. Pingali, Kostas G. Stamoulis, 2008 First Published in 2008 Routledge is an imprint of Taylor Francis an informa company

A Model of Information and I.T. Adoption in Food Supply Chains Hamid Mohtadi, 2002

Vertical Linkages in Agri-foods Supply Chains in Canada and the United States Jill E. Hobbs, Linda McCombs Young, Canada. Agriculture and Agri-Food Canada, Canada. Agriculture and Agri-Food Canada. Strategic Policy Branch. Research and Analysis Directorate, 2001 This report describes the nature of vertical linkages in agriculture ranging from spot markets to vertical integration and discusses factors leading to increased vertical co ordination It then reviews the applied theoretical literature relating to vertical co ordination including transaction cost economics strategic management theory and convention theory A conceptual framework is also developed for examining the forces behind closer vertical relations The framework has four components environmental drivers product transaction characteristics and vertical co ordination mechanisms The framework is applied to the United States corn soybean sectors to reveal the importance of technological change Finally the report examines the implications of closer vertical linkages for pricing government policy and markets

San Joaquin Agricultural Law Review, 1999 **Proceedings of the ... Conference of the Australian Society of Sugar Cane Technologists** Australian Society of Sugar Cane Technologists. Conference, 2006 Supply Chain Management William Y. C. Wang, Michael S. H. Heng, Patrick Y. K. Chau, 2007 In the current business landscape many business firms compete in one project and cooperate in another related project and they do so at the same time Even more interesting is that certain members of these firms are involved in both projects This book examines this new business landscape R sum de l d Journal of Agricultural and Applied Economics, 2006 **Agri-Food 4.0** Rahul S. Mor, Dinesh Kumar, Anupama Singh, 2022-03-28 Agri Food 4 0 Innovations Challenges and Strategies addresses new research on digital technologies in the Agri Food industry including smart packaging smart warehousing effective inventory control blockchain technology artificial intelligence and other Industry 4 0 concepts **Expanding the Knowledge Economy** Paul M. Cunningham, Miriam Cunningham, 2007 **North America and Europe (NAE) Report** International Assessment of Agricultural Knowledge, Science, and Technology for Development (Project), Beverly D. McIntyre, 2009 The International Assessment of Agricultural Knowledge Science and Technology for Development IAASTD looks realistically at how we could effectively use agriculture AKST to help us meet development and sustainability goals An unprecedented three year collaborative effort the IAASTD involved more than 400 authors in 110 countries and cost more than 11 million It reports on the advances and setbacks of the past fifty years and offers options for the next fifty years The results of the project are contained in seven reports a Global Report five regional Sub Global Assessments and a Synthesis Report The Global Report gives the key findings of the Assessment and the five Sub Global Assessments address regional challenges The volumes present options for action All of the reports have been extensively peer reviewed by governments and experts and all have been approved by a panel of participating governments The Sub Global Assessments all utilize a similar and consistent framework examining and reporting on the impacts of AKST on hunger poverty nutrition human health and environmental social sustainability The five Sub Global Assessments cover the following regions Central and West Asia and North Africa

CWANA East and South Asia and the Pacific ESAP Latin America and the Caribbean LAC North America and Europe NAE
Sub Saharan Africa SSA **Sustainable Development and the Indian Economy** Sailabala Debi, Vinod B. Annigeri, 2006
Contributed papers presented at 5th Development Convention organized on April 27 28 2006 in Dharwad

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