



The AgEcon Frontiers
Shaping the Future of Agricultural Economics

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Digital Agriculture and Economic Transformation

About Book

Digital Agriculture and Economic Transformation is an edited volume that explores how emerging technologies such as artificial-intelligence, big data, IoT, and blockchain are reshaping agricultural systems and driving economic development. Organized across five sections, the book covers conceptual foundations, farm-level technological transformation, digital markets and value chains, rural and social dimensions, and policy and governance frameworks. It brings together interdisciplinary insights to examine how digitalization enhances productivity, financial inclusion, sustainability, and resilience in agriculture, while also addressing challenges such as inequality, infrastructure gaps, and adoption barriers. The volume aims to provide a holistic understanding of the role of digital innovation in transforming global agriculture and fostering inclusive economic growth.

The book will be indexed in CABI.

Form Link: <https://forms.gle/FLXYjqeFq9hfQoiv9>

Themes

Section I: Foundations and Conceptual Frameworks (5 Chapters)

1. Introduction to Digital Agriculture and Economic Transformation
2. Evolution of Agricultural Systems in the Digital Era
3. Theoretical Foundations: Technology, Innovation, and Development
4. Global Trends in Digital Agriculture
5. Digital Divide and Structural Inequalities in Agriculture

Section II: Digital Technologies and Farm-Level Transformation

6. Artificial Intelligence and Big Data in Agriculture
7. Internet of Things (IoT) and Smart Farming Systems
8. Precision Agriculture and Resource Optimization
9. Digital Extension and Advisory Systems
10. Climate-Smart Agriculture and Digital Innovations

Section III: Markets, Finance, and Value Chains

11. Digital Platforms and Market Integration
12. E-commerce and Agricultural Marketing Systems
13. Agri-FinTech and Financial Inclusion
14. Blockchain and Traceability in Food Systems
15. Logistics, Supply Chains, and Digital Coordination

Section IV: Rural Transformation and Social Dimensions

16. Digital Agriculture and Rural Livelihoods
17. Agripreneurship and Startup Ecosystems
18. Youth Engagement in Digital Agriculture
19. Gender, Inclusion, and Equity in Digital Systems
20. Skills, Capacity Building, and Human Capital

Section V: Policy, Governance, and Future Pathways

21. Policy Frameworks and Institutional Support
22. Data Governance, Privacy, and Ethics
23. Infrastructure and Digital Ecosystems
24. Challenges and Barriers to Adoption
25. Future of Digital Agriculture and Global Food Systems

Timeline



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