Indian Chamber of Food and Agriculture (ICFA)

in collaboration with

IIT Ropar Technology and Innovation Foundation

iHub AWaDH

organising

INDIA DIGITAL AGRI CONFERENCE 2024

at

The Park, Sansad Marg, New Delhi

11 October 2024

9:00 AM – 5:00 PM

AgriTech Revolution: Plowing into the Digital Era

Introduction

The agriculture sector is undergoing a paradigm shift, driven by the integration of advanced digital technologies such as **Artificial Intelligence** (AI), **Internet of Things** (IoT), **drones**, and **data analytics**. These tools are unlocking new opportunities for enhanced productivity, climate resilience, and resource optimization, allowing agriculture to address critical challenges like climate change, food security, and sustainable resource management.

The India Digital Agri Conference 2024, **co-organized by ICFA and IIT Ropar TIF - AWaDH,** will serve as a pivotal platform for stakeholders to explore the transformative potential of digital agriculture. This conference aims to foster knowledge exchange, showcase cutting-edge innovations, and encourage cross-sector collaboration. By bringing together policymakers, industry experts, entrepreneurs, academicians, researchers, and farmers, the event will help shape the future of agriculture in the digital era, positioning it for sustainable growth and development.

Purpose and Significance of the Conference

In light of the global challenges facing agriculture, such as climate change, food security, and diminishing resources, the role of digital agriculture has never been more crucial. Further, the just announced AgriStack initiatives of Government of India strengthens digital agriculture as impetus to the Agriculture in India. The India Digital Agri Conference 2024 aims to:

- **Catalyze Innovation and inculcate collaborations**: Foster the adoption of cutting-edge technologies that can revolutionize traditional farming systems.
- **Promote Sustainable Practices**: Highlight how digital tools can optimize resource use, reduce environmental impact, and build climate-resilient agricultural systems.
- **Facilitate Policy Dialogue**: Bring together government representatives, researchers, and industry experts to align policy frameworks with technological advancements.
- **Enhance Market Linkages**: Encourage the use of digital platforms to streamline supply chains, enhance market access, and improve the livelihoods of smallholder farmers.

Partners:

ICFA
Indian Chamber of Food & Agriculture is India's apex body for business, policy, development, and global agribusiness trade
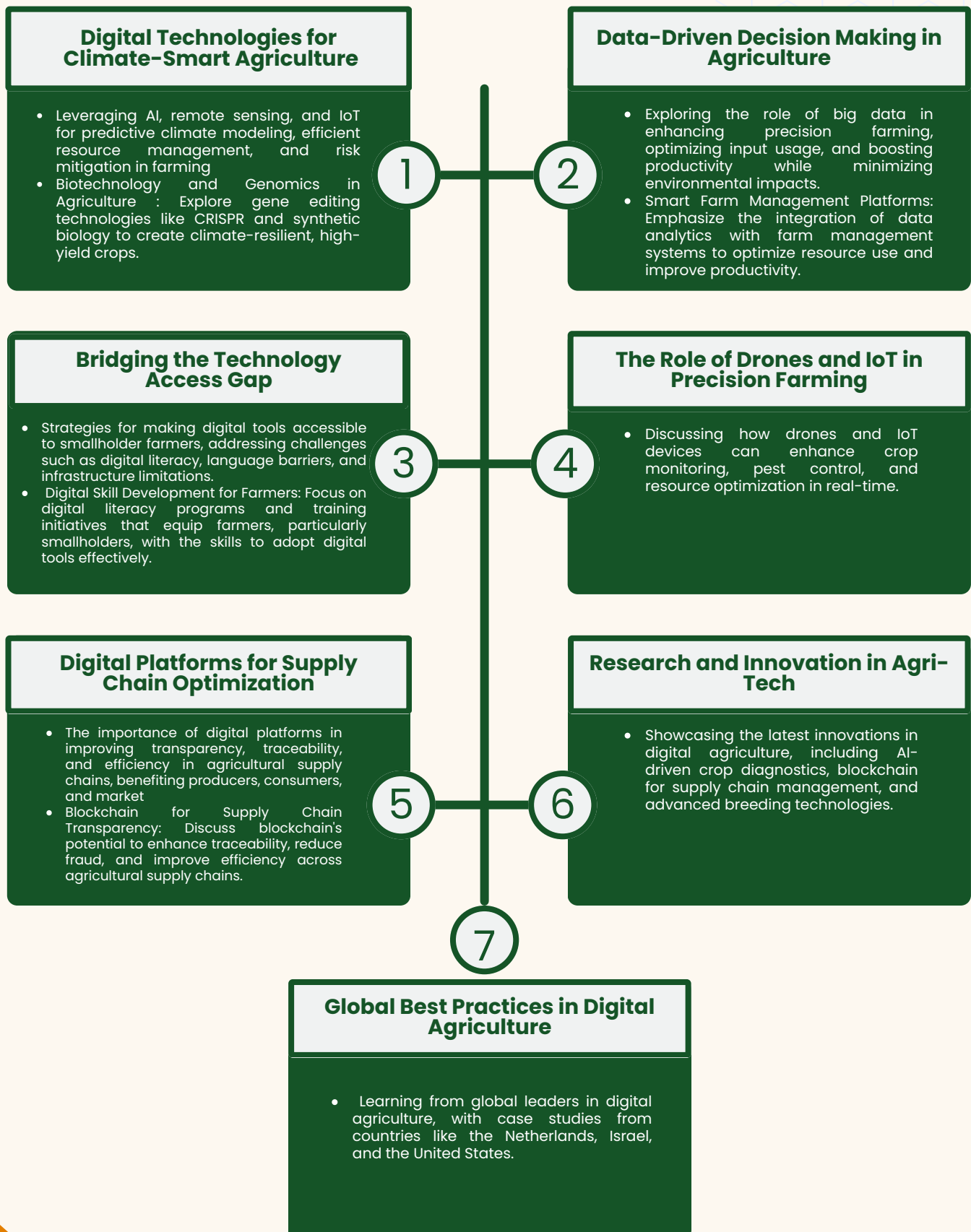
IIT Ropar TIF AWaDH
iHub - **AWaDH IIT Ropar** Technology and Innovation Foundation (iHub – AWaDH) for Agriculture and Water Technology Development.

Key Themes and Topics

The conference will cover a range of critical topics that address the most pressing issues in digital agriculture. Each session will be designed to provide insights into practical applications, research, and case studies from around the world.

Digital Technologies for Climate-Smart Agriculture

1

- Leveraging AI, remote sensing, and IoT for predictive climate modeling, efficient resource management, and risk mitigation in farming
- Biotechnology and Genomics in Agriculture : Explore gene editing technologies like CRISPR and synthetic biology to create climate-resilient, high-yield crops.

Data-Driven Decision Making in Agriculture

2

- Exploring the role of big data in enhancing precision farming, optimizing input usage, and boosting productivity while minimizing environmental impacts.
- Smart Farm Management Platforms: Emphasize the integration of data analytics with farm management systems to optimize resource use and improve productivity.

Bridging the Technology Access Gap

3

- Strategies for making digital tools accessible to smallholder farmers, addressing challenges such as digital literacy, language barriers, and infrastructure limitations.
- Digital Skill Development for Farmers: Focus on digital literacy programs and training initiatives that equip farmers, particularly smallholders, with the skills to adopt digital tools effectively.

The Role of Drones and IoT in Precision Farming

4

- Discussing how drones and IoT devices can enhance crop monitoring, pest control, and resource optimization in real-time.

Digital Platforms for Supply Chain Optimization

5

- The importance of digital platforms in improving transparency, traceability, and efficiency in agricultural supply chains, benefiting producers, consumers, and market
- Blockchain for Supply Chain Transparency: Discuss blockchain's potential to enhance traceability, reduce fraud, and improve efficiency across agricultural supply chains.

Research and Innovation in Agri-Tech

6

- Showcasing the latest innovations in digital agriculture, including AI-driven crop diagnostics, blockchain for supply chain management, and advanced breeding technologies.

Global Best Practices in Digital Agriculture

7

- Learning from global leaders in digital agriculture, with case studies from countries like the Netherlands, Israel, and the United States.

Target Audience and Stakeholders

The India Digital Agri Conference 2024 will attract a wide range of stakeholders from across the agricultural and technology sectors, including:

- **Farmers and Farmer Producer Organizations** (FPOs) – Primary beneficiaries of digital technologies and innovations.
- **Agri-Tech Companies and Startups** – Innovators developing cutting-edge tools and solutions for agriculture.
- **Government and Policymakers** – Decision-makers shaping the regulatory environment for digital agriculture.
- **Research Institutions and Universities** – Academics contributing to the advancement of agricultural science and technology.
- **Investors and Venture Capitalists** – Individuals and organizations looking to invest in promising agri-tech solutions.
- **Agricultural Cooperatives and Associations** – Key players in agricultural production, supply chains, and market access
- **Promoting Biotechnology and Genomics in AgriTech:** Highlight advancements in biotechnology, including gene editing (e.g., CRISPR) and synthetic biology, to improve crop resilience, enhance yields, and develop climate-resistant and nutrient-rich varieties.

Structure of the Conference

The event will feature a blend of keynote presentations, panel discussions, and interactive sessions, ensuring a rich exchange of theoretical knowledge and practical insights. The aim is to create a dynamic environment where participants can learn, engage, and collaborate.

- **Opening Session:** A strategic introduction to the role of digital agriculture in shaping the future of farming, highlighting key trends and innovations.
- **Keynote Address:** Insights from key government officials on the national vision for digital agriculture, with a focus on technology's role in transforming Indian agriculture.

Thematic Sessions:

- **Climate-Smart Agriculture:** Exploring tools and technologies to enhance agricultural resilience to climate change.
- **Precision Farming:** Data-driven practices for improving sustainability and resource efficiency.
- **Innovation in Agri-Tech:** Leveraging cutting-edge technologies to drive agricultural growth and development.
- **Panel Discussions:** Interactive dialogues bringing together experts from government, industry, and academia to discuss policy frameworks, the adoption of digital technologies, and key research priorities.
- **Workshops and Demonstrations:** Hands-on sessions that showcase the latest digital tools, innovations, and solutions in agriculture, providing participants with practical insights into their real-world applications.
- **Networking Sessions:** Opportunities for stakeholders to engage in meaningful interactions, fostering partnerships and exploring collaborative ventures across the digital agriculture ecosystem.
- **Discussion and Q&A Sessions:** Engaging forums where attendees can ask questions, share perspectives, and participate in in-depth discussions with panelists and experts. These sessions will promote active dialogue, ensuring that participants can address key challenges and explore future directions for digital agriculture.

Target Audience and Stakeholders

Farmers and Farmer Producer Organizations

Primary beneficiaries of digital technologies and innovations..

Agri-Tech Companies and Startups

Innovators developing cutting-edge tools and solutions for agriculture.

Government and Policymakers

Decision-makers shaping the regulatory environment for digital agriculture.

Research Institutions and Universities

Academics contributing to the advancement of agricultural science and technology.

Investors and Venture Capitalists

Individuals and organizations looking to invest in promising agri-tech solutions.

Agricultural Cooperatives and Associations

Key players in agricultural production, supply chains, and market access

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- **Keynote Address:** Insights from key government officials on the national vision for digital agriculture, with a focus on technology's role in transforming Indian agriculture.
- **Biotech and Genomics Innovations in Agriculture:** Live demonstrations showcasing the latest advancements in crop genetics and biotechnology.
- **Agri-Fintech Solutions:** Present digital financial platforms for farmers, including mobile payment systems, credit, and agri-insurance solutions.
- **Agri Robotics in Action:** Live demonstrations of robotic systems for planting, monitoring, and harvesting.

Thematic Sessions

Climate-Smart Agriculture
Exploring tools and technologies to enhance agricultural resilience to climate change.

Biotechnology and Genomics in AgriTech
Highlight advancements in biotechnology, including gene editing (e.g., CRISPR) and synthetic biology, to improve crop resilience, enhance yields, and develop climate-resistant and nutrient-rich varieties.

Precision Farming
Data-driven practices for improving sustainability and resource efficiency.

Workshops and Demonstrations
Hands-on sessions that showcase the latest digital tools, innovations, and solutions in agriculture, providing participants with practical insights into their real-world applications.

Innovation in Agri-Tech
Leveraging cutting-edge technologies to drive agricultural growth and development.

Networking Sessions
Opportunities for stakeholders to engage in meaningful interactions, fostering partnerships and exploring collaborative ventures across the digital agriculture ecosystem.

Panel Discussions
Interactive dialogues bringing together experts from government, industry, and academia to discuss policy frameworks, the adoption of digital technologies, and key research priorities.

Q&A Sessions
Engaging forums where attendees can ask questions, share perspectives, and participate in in-depth discussions with panelists and experts.

Expected Outcomes

- Enhanced Knowledge Sharing and Capacity Building
- The conference will provide an opportunity for stakeholders to exchange ideas, share knowledge, and learn from each other's experiences, building a collective understanding of how digital tools can be effectively applied to agriculture.
- Policy Recommendations and Frameworks
- Discussions during the event will generate actionable recommendations for policymakers to accelerate the adoption of digital agriculture, focusing on sustainability, productivity, and inclusivity.
- Strengthened Collaborations and Partnerships
- The event will foster strategic collaborations between stakeholders, including government agencies, academic institutions, tech companies, and farmer organizations, ensuring a holistic approach to digital agriculture.
- Identification of Investment and Research Opportunities
- By showcasing innovations and emerging technologies, the conference will highlight opportunities for investment in agri-tech startups and research, promoting innovation and entrepreneurship in the sector.
- Roadmap for Future Digital Agri Projects
- The discussions will help identify key areas of focus for future projects in digital agriculture, aligning them with national priorities and global trends.

Conclusion

The India Digital Agri Conference 2024 represents a significant step forward in the digitization of Indian agriculture. With the combined expertise of ICFA and IIT Ropar, this event will provide an invaluable platform for addressing the critical challenges facing agriculture today. By fostering collaboration, driving innovation, and shaping policy, this conference will contribute to the transformation of Indian agriculture into a modern, sustainable, and digitally enabled sector.

We look forward to working together to make this event a success and to pave the way for a prosperous future for Indian agriculture.

Call for Action:

We invite all stakeholders, including Government Departments and Bodies, **Farmer Producer Organizations** (FPOs),**Corporate-Industry-Business Organizations, Consultancy Firms, Professional Associations, Academic Institutions, and other interested entities** to take part in the upcoming Conference on **11th October 2024**. This event presents a unique opportunity to engage with cutting-edge discussions, exchange ideas, and leverage insights that can enhance strategic decision-making and foster innovation across sectors.

To participate, it is essential to register your delegates or representatives by **5th October 2024**. The registration fee is ₹2500, and payment must be completed by **11th October 2024**. The registration and payment process can be completed via the provided link.
Kindly ensure timely completion of both the registration and payment processes to confirm your spot.

We look forward to your active involvement and collaboration in making this conference a success, benefiting from the valuable proceedings and networking opportunities it will offer.

For any further details, please be free to get in touch with:
Ms Ayati Singh
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Payment Details:

Early Bird Discounts on Delegate Fee
- From 20th September till 30th September - INR 1500
- From 1st October till 11th October - INR 2500

Payment Link:
https://www.icfa.org.in/india-digital-agri-conference/delegate_registration.php

Scan to Visit

Tentative Agenda

India Digital Agriculture Conference 2024 India International Centre, New Delhi	
9.00 - 10.00 am	Registration
Inauguration of the Conference	
10.00- 10.05 am	Welcome Remarks by **Dr M.J Khan, Chairman,** Indian Chamber of Food and Agriculture (ICFA)
10.05-10.10 am	Introductory Remarks by **Dr Pushpendra Pal Singh**, Dean R&D, Indian Institute of Technology (IIT) Ropar
10.10 - 10.15 am	Release of Video on '**India's Future in Digital Agriculture with National Digital Agriculture Mission**'
10.15- 10.20 am	Address by Guest of Honor
10.50 - 10.55 am	Release of Digital Agriculture Initiatives of ICFA and IIT Ropar: *Digital Agriculture Council or National Digital Agritech Alliance*
10.35 - 10.50 am	Keynote Address by the Chief Guest
10..55 - 11.00 am	Vote of Thanks by **Mr Ashwani Bakshi**, CEO, ICFA
11.00 - 12.00 Noon **Agritech Industry & Startup Technology Showcase** *Followed by* a *Networking Tea Break*	
12.00 - 1.00 pm Panel Discussion I: **Democratizing AgriTech: Bridging the Digital Divide in Agriculture**	
1.00 - 2.00 pm **Networking Lunch**	
2.00 - 2.45 pm Panel Discussion II: **Climate-Smart Agriculture: Harnessing Digital Technologies for Sustainable Farming**	
2.45 - 3.30 pm Panel Discussion III: **Precision Farming: The Convergence of Drones, GIS, IoT, and AI**	
3.30 - 3:40 pm	Keynote Talk on **Digital AgriMarket Place (10 min)**
3:40- 4:00 pm	Keynote Talk on **AgriStack & Krishi Decision Support System (10 min)** *Open Q&A (10 min)*
4.00 - 4.30 pm	Valedictory Session

Sponsorship Opportunities:

We are offering exclusive sponsorship opportunities for the India Digital Agri Conference 2024. This is a chance for organizations to align themselves with the future of agriculture by showcasing their contributions to the sector. The event will bring together key stakeholders from the agriculture and technology sectors, offering sponsors the chance to be at the forefront of this transformation.

We offer three sponsorship options:

1. Principal Sponsor (₹7.00 Lakh)

- **Title Recognition:** Your organization will be recognized as the Principal Sponsor with prominent branding across all event materials and platforms, including the event website, banners, and brochures.
- **Speaking Opportunity:** A 10-minute speaking slot during the event to address participants.
- **Networking Access:** 8 complimentary delegate passes to the conference.
- **Corporate Branding:** Your logo will be featured on key event collateral and during breaks.
- **Acknowledgment:** Special acknowledgment during the inaugural and concluding ceremonies.

2. Main Sponsor (₹5.00 Lakh)

- **Official Status:** Recognition as the Main Sponsor with your logo featured on event materials and platforms.
- **Presentation Opportunity:** A 5-minute presentation slot during the event.
- **Networking Access:** 5 complimentary delegate passes.
- **Acknowledgment:** Recognition during the event proceedings.

3. Co-Sponsor (₹2.00 Lakh)

- **Supporting Sponsor Status:** Your organization will be recognized as a Co-Sponsor with your logo featured on select event materials.
- **Networking Access:** 2 complimentary delegate passes.
- **Acknowledgment:** Acknowledgment during the inaugural and concluding ceremonies.

Why Sponsor?

- **Brand Visibility:** Gain exposure to a targeted audience of decision-makers and thought leaders in the agriculture and technology sectors.
- **Direct Engagement:** Connect with policymakers, industry leaders, and innovators shaping the future of agriculture.
- **Networking:** Build relationships with key stakeholders and explore potential collaborations.

For any further details, please be free to get in touch with:

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