

dexian®

Volume: 2



WELCOME TO DEXIAN AGRITECH PULSE

This Agritech newsletter is from Dexian India and is a part of the Anubhav newsletter,
May 2025



We're here to give you front-row access to India's most promising developments in farming, from budget allocations that shape the future of crops to AI solutions that automate entire fields.

What's Inside:



India's Agritech Budget 2025 and Tech (IT) centric opportunities



How AI Is Revolutionizing Indian Agriculture



Dexian events overview





INDIA'S AGRI-TECH BUDGET—2025

Government Focus	IT Solution Pathways
<p>These are actual budget allocations and policy frameworks declared by the Indian government, reflecting national priorities across various Agri-domains</p>	<p>Dexian interprets these as opportunities for solution design, system development, and platform building</p>
<p>Dairy</p> <ul style="list-style-type: none">• ₹2,790 Cr for NPDD: The National Program for Dairy Development aims to modernize milk procurement, boost rural incomes, and empower women through cooperatives.• 10,000 Co-ops & 3.2 Lakh Jobs: Directly supports rural employment and value-chain infrastructure in the dairy sector.	<p>Dairy → Livestock Management Suite</p> <ul style="list-style-type: none">• RFID & IoT sensors to monitor cattle health and milk yield.• Dashboards for milk quality, temperature, fat %, storage health, and payouts.• Could be extended into a state-level dairy ERP.
<p>Farming</p> <ul style="list-style-type: none">• ₹3,950 Cr FIAT Fund: Dedicated to tech infusion in crop insurance, yield assessments, and transparency in settlements.• ₹2,481 Cr for Natural Farming: Focuses on reducing input costs, chemical-free farming, and improving soil health.	<p>Farming → Precision Agriculture Tech</p> <ul style="list-style-type: none">• Precision Agriculture Tech is transforming traditional farming through data-driven insights.• A data intelligence layer can assess soil health, localized weather and climate conditions, and historical crop performance.



Government Focus

Farming

- **₹10L+ Cr Umbrella Schemes:** Consolidates multiple programs under RKVY and Krishonnati Yojana to enhance farm productivity holistically.



Agriculture

- **₹69,515 Cr PMFBY:** Crop insurance to protect against unpredictable weather and natural calamities.
- **₹32,000 Cr for PM-KISAN:** Direct Benefit Transfers (DBT) to 9.8 Cr+ farmers.
- **₹1,01,321 Cr Umbrella Schemes:** Large-scale investment in boosting food security and agri self-reliance.



IT Solution Pathways

Farming → Precision Agriculture Tech

- **Machine Learning (ML)** models enable fertilizer optimization for specific soil types, reduce operational and input costs, and maximize crop yield with minimal environmental impact all while supporting sustainable farming practices and improving subsidy efficiency.

Agriculture → Crop Monitoring & Smart Advisory

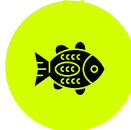
- **AI-powered risk engines** can validate crop insurance claims with greater accuracy and speed.
- Integration of Satellite imagery, Weather data APIs, and farmer-facing mobile applications into a unified real-time agri dashboard for governments, FPOs, and cooperatives.
- **Multi-language digital farmer wallets** can be developed to Track Direct Benefit Transfers (DBT), monitor subsidies and loan disbursements, and improve transparency and financial inclusion across regions.



Government Focus

Fishery

- **Focus on Andaman, Lakshadweep:** Coastal and island fisheries targeted for modernization and export potential.
- **Export-Oriented Marine Development:** Emphasis on aquaculture quality, sustainability, and marine tech.



Farm Equipment

- **Push for Automation:** Although not budgeted separately in the doc, this reflects the government's narrative on digitizing agriculture through tech-integrated machines.



IT Solution Pathways

Fishery → Aquaculture Intelligence Suite

- Design IoT-integrated tools to **monitor pH, temperature, and feed quality**.
- Use **data modeling** to forecast yields and optimal harvest windows.
- Enable **remote aquaculture control panels** via mobile or cloud platforms.

Farm Equipment → IoT-Integrated Equipment OS

- **IoT-integrated** farm equipment enables smarter, adaptive field operations.
- **Embedded operating systems** in tractors, planters, and sprayers can receive and act on real-time data from soil and weather sensors. It auto-calibrates machinery settings for precision and efficiency.
- **Custom-built apps** can optimize machine performance based on field-specific conditions. Enable remote-control functionalities for hard-to-reach or uneven terrains, smallholder or aging farmer use cases.
- Supports **OEM** collaboration for scalable deployment across machinery types.



HOW AI IS REVOLUTIONIZING INDIAN AGRICULTURE



AI in Indian agriculture is quietly transforming everything from sowing to selling. If you take a stroll through the sugarcane fields of Maharashtra or the sprawling rice paddies in Tamil Nadu, you'll notice a subtle but powerful change. Farmers armed with smartphones, drones, and predictive analytics apps are making informed decisions in real-time through AI-driven insights.

From precision agriculture to pest detection, AI solutions reshape agriculture at the grassroots level. India's adoption of AI in agriculture is still in its early stages compared to countries like the U.S., where large-scale, consolidated farms and robust digital infrastructures have driven faster adoption.

Government programs, such as the IndiaAI Mission, encourage high-tech adoption and bring local innovators together with farmers.

The results are promising India's AI-in-agriculture market, valued at USD 55 million, is expected to double by 2030.

To maintain momentum, experts recommend investing in more substantial digital infrastructure, ranging from rural Wi-Fi to more straightforward AI tools, and providing additional training for smallholders.

Collaborative efforts among startups, research labs, and policymakers can build cost-effective, localized solutions tailored to different soil and climate conditions.



DEXIAN EMPLOYEE PARTNERS 2024

A Glimpse into the Future at DEP 2024

At Dexian Experience Partners (DEP) 2024, the AgriTech stall created real excitement with a VR experience. Visitors explored how Dexian India's BIHAN platform has empowered 18 million farmers across 38 districts in Bihar by driving 10 key agricultural policies, improving crop productivity, and enabling better access to subsidies and sustainable practices.

The experience also featured the Agricultural Information Exchange Platform (AIEP), an AI-driven solution offering hyper-local advisory in native languages to support informed farming decisions.

With over 100 dashboards, 50+ integrated datasets, and 200+ training sessions, the impact was clear — and transformational.

A special acknowledgment to the India team for blending innovation with real-world impact. Moments like these show how Dexian builds solutions that truly matter.





PANEL SESSION

R

evolutionizing Indian Agriculture with Digital Ecosystems & Financial Innovations

This exclusive panel discussion is part of the premier Dexian Experience Partners event (DEP 2024), which brings together industry leaders and change-makers who are shaping the future of agriculture through technology and financial innovation.

Moderated by Venkat Lakshminarasimha, Executive Director, DISC-Solutions and Sales-India & Middle East, Dexian.

Key discussion topics



Seed traceability and AI-driven financial insights



Building sustainable farming ecosystems



Scaling AgriTech innovation through government partnerships



Dexian's role in AgriTech



Dexian | Revolutionizing Indian Agriculture with Digital Ecosystems & Financial Innovations



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DIGITAL INNOVATION CONCLAVE EVENT 2025



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At the Digital Innovation Conclave, hosted by MeitY and the NASSCOM Center of Excellence, we took the stage to explore the next leap in AgriTech.

Venkat has led a thought-provoking discussion on, How Dexian's BIHAN platform helped the Bihar government digitize its state-wide farming operations that enabled them to make 200-250 crore worth of policy decisions, GenAI-powered IVRS systems that speak the farmer's language, and 4,000+ mandis go digital with AgmarkNet 2.0, reducing middlemen influence and ensuring fair pricing.





KEY LEARNINGS FROM BIHAN & WHAT THE FUTURE HOLDS, PARTNERED WITH THE GATES FOUNDATION

Gates
Foundation

At Taj Wellington Mews, Chennai, we, in collaboration with the Gates Foundation India, brought together some of the sharpest minds in agriculture and technology for Key Learnings from Bihan and What the Future Holds.

It was a powerful convergence of thought leaders, innovators, and changemakers committed to revolutionizing agriculture through AI, digital transformation, and policy-driven impact. From cutting-edge agritech advancements to real-world success stories, this playlist captures the key discussions, expert insights, and the future roadmap for India's farming ecosystem.







Dexian India is committed to empowering india's farming communities through innovative digital solutions.

Our investment in AgriTech reflects our commitment to driving sustainable growth and creating a data-driven agricultural ecosystem that supports farmers & strengthens the nations's agricultural foundation.

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