

# Transforming the Future of Indian Agriculture

**D**iscussion under all theme circled around the major components of agriculture industry, technologies used from farmers to the food in our plate, challenges and struggles faced by stakeholders and farmers in the process, and of course the possible solutions to address those challenges.

Geospatial technologies and emerging technologies especially IoT, AI, and Big data analysis are found to be the part of major components of Smart Farming apart from soil, crop, water, climate during all sessions. These technologies are being adopted at various phases of the workflow but need to create more awareness towards the adoption of technologies so that it must be ensured about the use of right technology at the right time and place and for the right purpose.

Climate resilience (one of the components to drive digital agriculture) and grass root level changes for farmers must be addressed in policy and strategy along with the market and technology considerations so that it can be transformed into an integrated ecosystem for farmers, stakeholders, governments, users, academia, and researcher to contribute to the sustainability and socio-economic growth in the country.

Aquaculture is the fastest growing sub-sectors of Agriculture and Farming with the use of Geospatial technologies and supported by Blue Growth Strategy by Government of India. This sub-sector can also evolve towards the economic contribution if addressed at the initial stage of sector transformation.

To reduce the challenges and achieve every goal can only be possible through an integrated ecosystem and collaboration within the industry and cross industry between governments, private sector, academia, knowledge hub, and start-ups.

Agriculture and Irrigation program in GeoSmart India 2023 had very insightful discussion in six sessions including Recommendations and Way Forward with the experts from Government, Private sector, Academia, Start-ups, and Knowledge Hub. The program covered the discussion on:

Digital Agriculture and Irrigation

Food Security, Future and Supply Chain

Seeds of Change: India's Approach for Affordable Agri-Innovations

Credit Linkages and Funding Support in Agriculture

Data Analytics & Emerging Technologies

**Knowledge Partner**



**Supporting Partners**



**Supporting Government Partner**



## KEY TAKEAWAYS:

- Emerging and upcoming Start-ups must come with the technology collaboration in Agriculture.
- Water management requires to address in Agriculture sector by using new technologies.
- Collaboration must increase between Government, Academia, and Private Stakeholders even between Agriculture and Non-Agriculture businesses.
- Integrated agriculture infrastructure is the need for Agriculture and Food Security to reduce the sectoral challenges.
- Affordability of technology, customization of solutions, lower investment cost, and providing right knowledge must be addressed to ground level farmers to empower them.
- Initial investment and trust building path are struggle for Start-ups and incubators.
- Policy and strategy should be reformed to evolve the Agriculture in terms of technology, credit linkage, and funding.
- New talent engagement is also one of the requirements.
- Combination and collective farming are one of the solutions to evolve the sector which must include technology affordability, technology adoption, reachability to farmers, and integrated farming systems.

## ALL PANELISTS AND SPEAKERS

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