

DAILY EDITORIAL ANALYSIS

TOPIC

INDIA'S JOURNEY TOWARD A VIKSIT AGRI ECONOMY BY 2047

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Context

India stands at a critical juncture in modernizing its agricultural practices, and it needs to focus on key
imperatives to build a Viksit (developed) Agri Economy by 2047, focusing on food security, rural livelihoods,
sustainability and adoption of several modern technology innovations.

Current State of India's Agri Economy

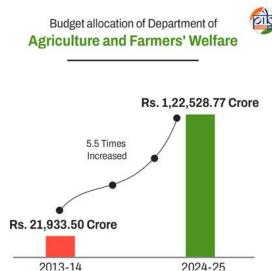
- Workforce: About 55% of India's Population;
- Gross Value Added (GVA): 17.7% (at current prices in FY 2023-24);
 - It is expected that agriculture's share in **GDP might** shrink to 7% 8% and employ over 30% of the workforce by 2047.
- Agricultural Land: 54.8% of the India's Total Land (328.7 million hectares);
 - Arable Land: 180 million hectares (largest in the world);
- Cropping Intensity: 155.4% (as per the Land Use Statistics for 2021-22);
- Global Dominance: India is the world's largest producer of milk, pulses, and spices.
 - India is the second-largest producer of fruits, vegetables, tea, farmed fish, sugarcane, wheat, rice, cotton, and sugar.
- Agricultural Exports: INR 4.2 Lakh Cr in FY23;

Key Hurdles in Building a Viksit Agri Economy by 2047

- **Small and Fragmented Landholdings:** 86% of farmers own less than two hectares, limiting economies of scale and mechanization.
- **Climate Change:** Erratic monsoons, rising temperatures, and extreme weather events disrupt crop yields and income stability.
- Water Scarcity: Over-reliance on groundwater has led to depletion in critical regions like Punjab and Haryana.
 - Dependence on monsoons makes agriculture vulnerable to droughts.
- Market Inefficiencies: Farmers face challenges in accessing well-developed markets and fair pricing.
 - Complex supply chains and middlemen contribute to price exploitation.
- **Post-Harvest Losses:** Poor storage and transportation infrastructure lead to an estimated 74 million tonnes of annual food loss.
- **Limited Access to Credit:** Small and marginal farmers struggle to access affordable credit and crop insurance, restricting their ability to invest in modern inputs.
- **Soil Degradation:** Overuse of chemical fertilizers has degraded soil fertility and increased vulnerability to pests and diseases.

Vision For Viksit Agri Economy by 2047

- Technological Integration: Leverage AI, IoT, and big data for precision farming.
 - Expand access to **satellite-based weather forecasting**, pest management, and **drones** for crop monitoring.





- Develop vernacular Al platforms for accessibility.
- Regenerative Farming Practices: Promote organic and zero-budget natural farming to restore soil health.
 - Introduce a national regenerative farming policy and encourage private-sector R&D.
- Robotics and Automation:
 - Develop low-cost robotic solutions tailored to small farms.
 - Establish **AgTech hubs** and promote public-private partnerships for scaling automation technologies.
- Alternative Protein Market: Collaborate with global leaders to improve production and awareness of labgrown proteins.
- Supply Chain Infrastructure: Invest in cold storage, transportation, rural connectivity, and irrigation.
 - Expand rural electrification and market linkages to reduce losses and ensure fair pricing.
- Empowering Farmers: Strengthen Farmer Producer Organizations (FPOs) to enhance bargaining power.
 - Improve access to **credit**, **insurance**, and **digital literacy** programs.
 - Equip smallholders with modern farming practices and training.
- Sustainability: Promote micro-irrigation techniques like drip and sprinkler systems.
 - Adopt climate-resilient crops and diversified cropping patterns.
- Public-Private Partnerships (PPPs): Collaborate with private companies and research institutions to drive innovation and investment.

Policy Reforms

- **Digital Agriculture Mission:** Develop digital public infrastructure, implement the Digital General Crop Estimation Survey (DGCES), and promote IT-based solutions.
- National Mission on Natural Farming: Focus on chemical-free, natural farming practices.
- E-Marketplace Initiatives: Expand the National Agriculture Market (e-NAM) for transparent bidding systems.
- Complementary Programs: Strengthen rural welfare schemes like PMAY, NREGA, and NFSA to support the agricultural workforce.

Conclusion and Way Forward

- India, a land of diverse agro-climatic zones, is intrinsically tied to its agricultural roots.
- As the nation approaches its centenary of independence in 2047, agriculture remains both a cornerstone of its economy and a key to its future.
- The journey toward a resilient, sustainable, and prosperous agricultural sector is pivotal for addressing challenges like food security, rural employment, and climate change.
- Improving market access, enhancing infrastructure, promoting sustainable farming practices, and providing financial support to small farmers are essential steps towards overcoming these hurdles.
- The future of India's agri economy looks promising, with a focus on technological innovation, policy reforms, and grassroots engagement.

Source: IE

Mains Practice Question

[Q] Analyze the key imperatives for India to achieve a 'Viksit Agri Economy' by 2047. Discuss the challenges and opportunities associated with each imperative. Conclude by outlining a roadmap for successful implementation.