

Digital Agriculture Ecosystem-Haryana

Introduction

To Establish a dynamic, Ecosystem is a connected framework of digital technologies, data platforms, and integrated services that support farmers and agricultural stakeholders across the entire value chain. It brings together AI, remote sensing, geospatial systems, IoT, automation, and digital marketplaces to create a seamless, data-driven, and efficient agricultural environment.

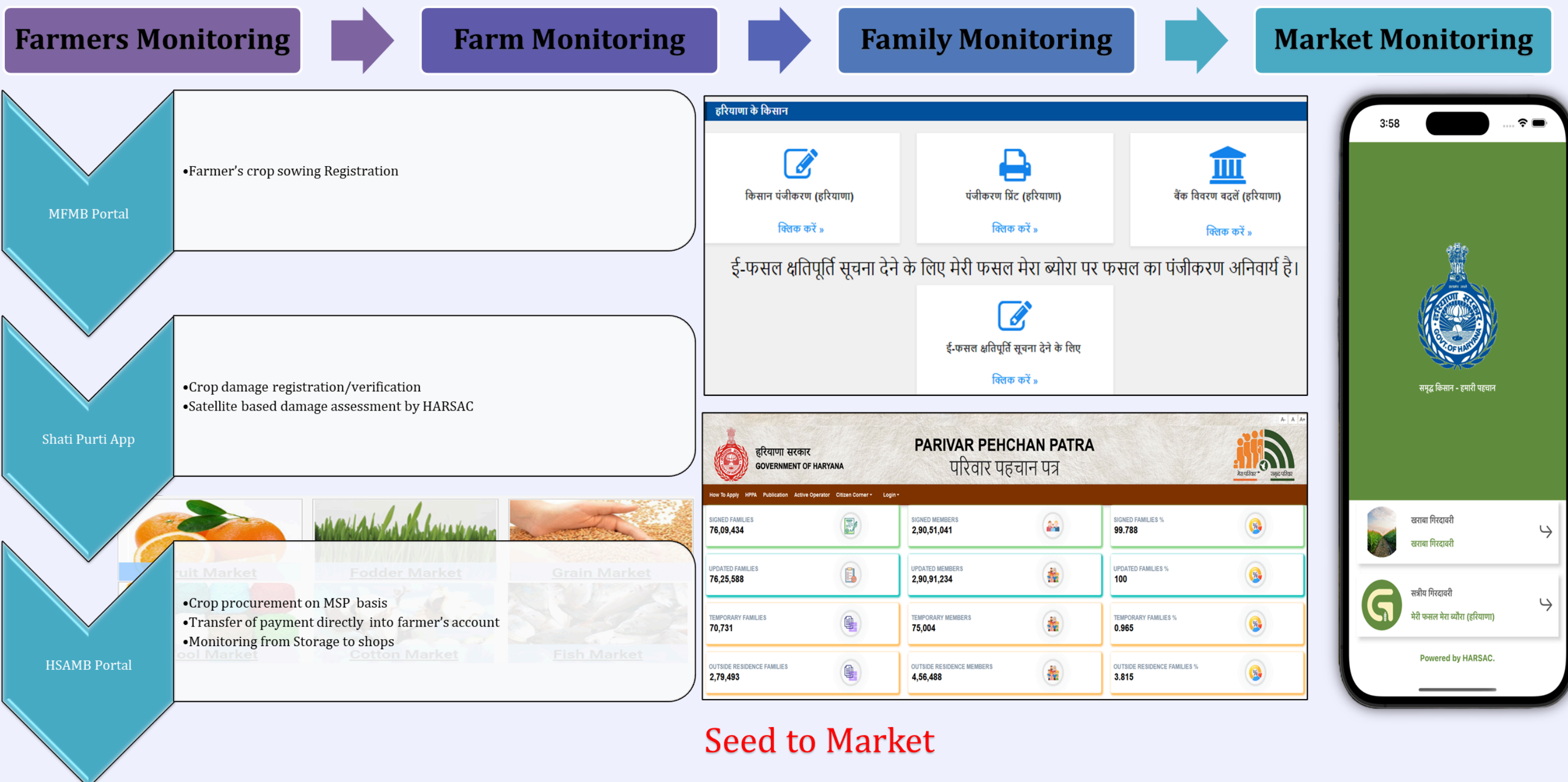
Key Components

- Satellite Imagery Acquisition
- AI/ML Model Performance
- Farmer Engagement
- Platform Uptime and Availability
- Impact Assessment

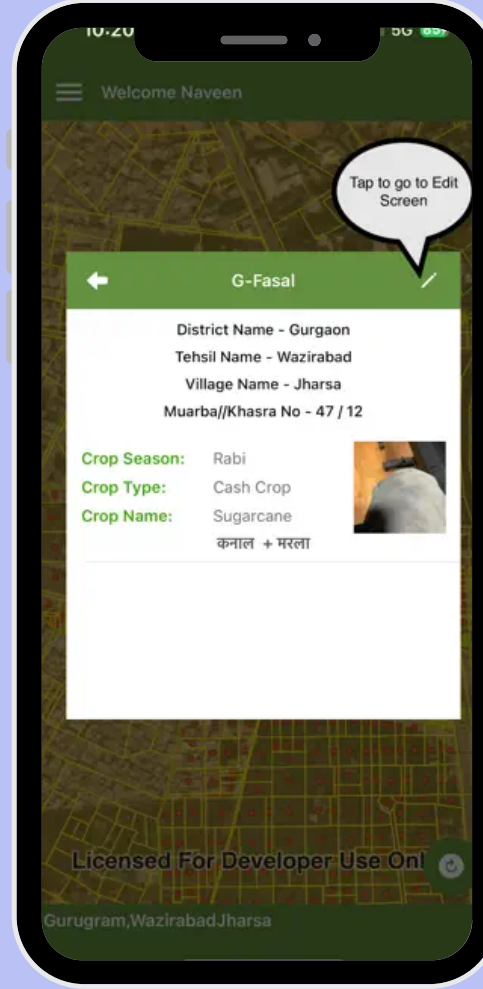
Key Outputs

- Satellite-driven "Crop Maps" updated every 5-7 days.
- Mobile alerts.
- Predictive yield estimates.
- Interactive Farmer's platform.

Digital Geo-intelligent Platform: Agriculture Ecosystem



Seed to Market

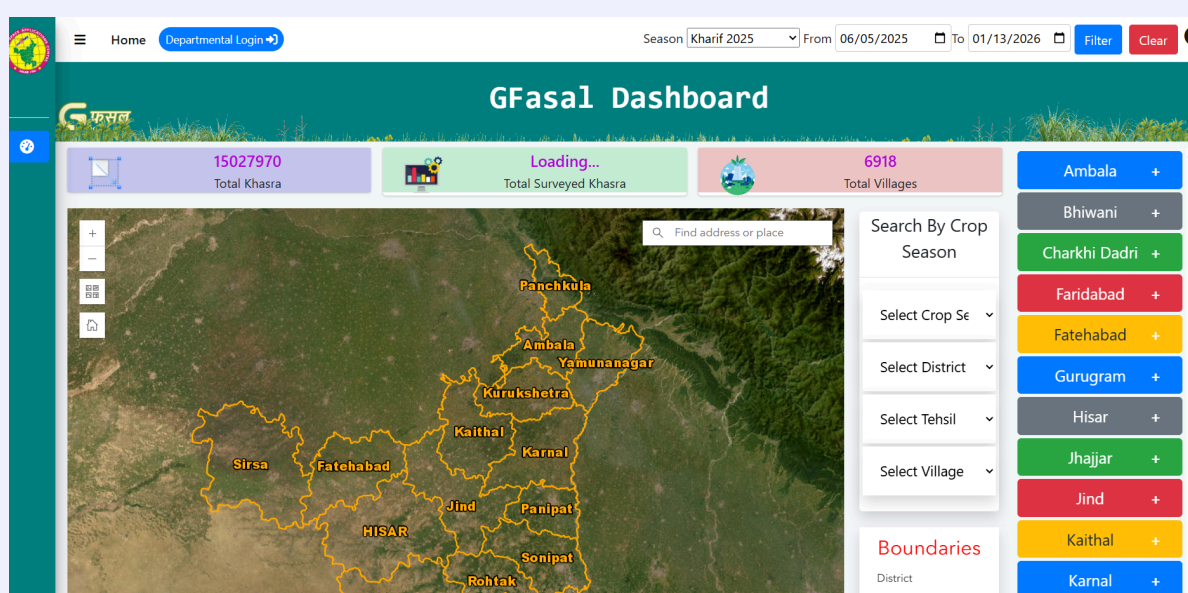
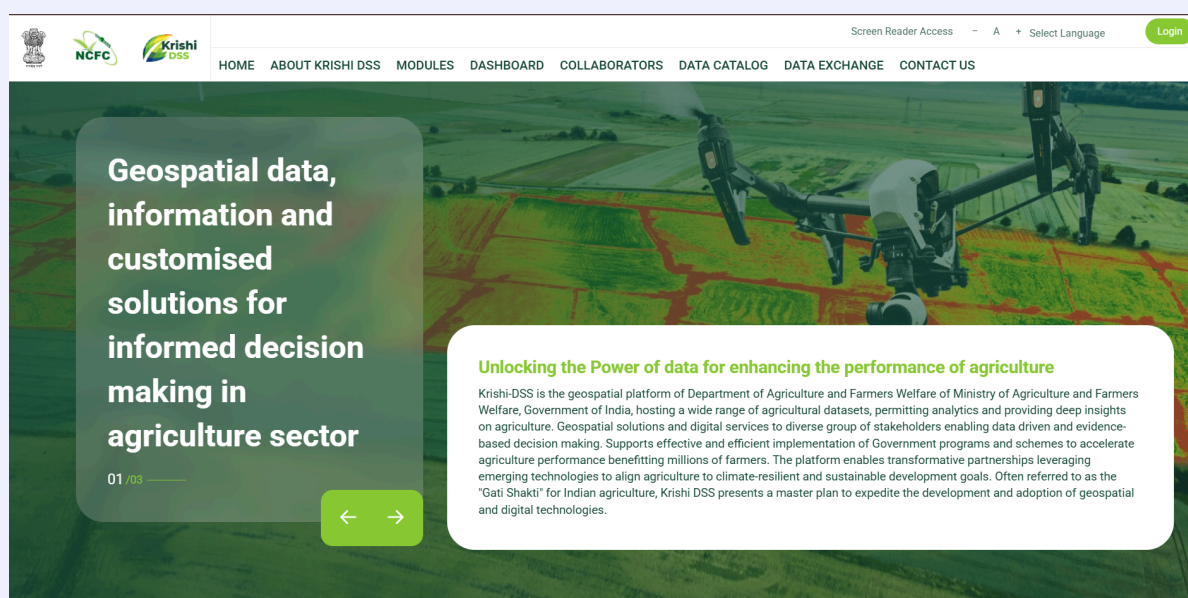
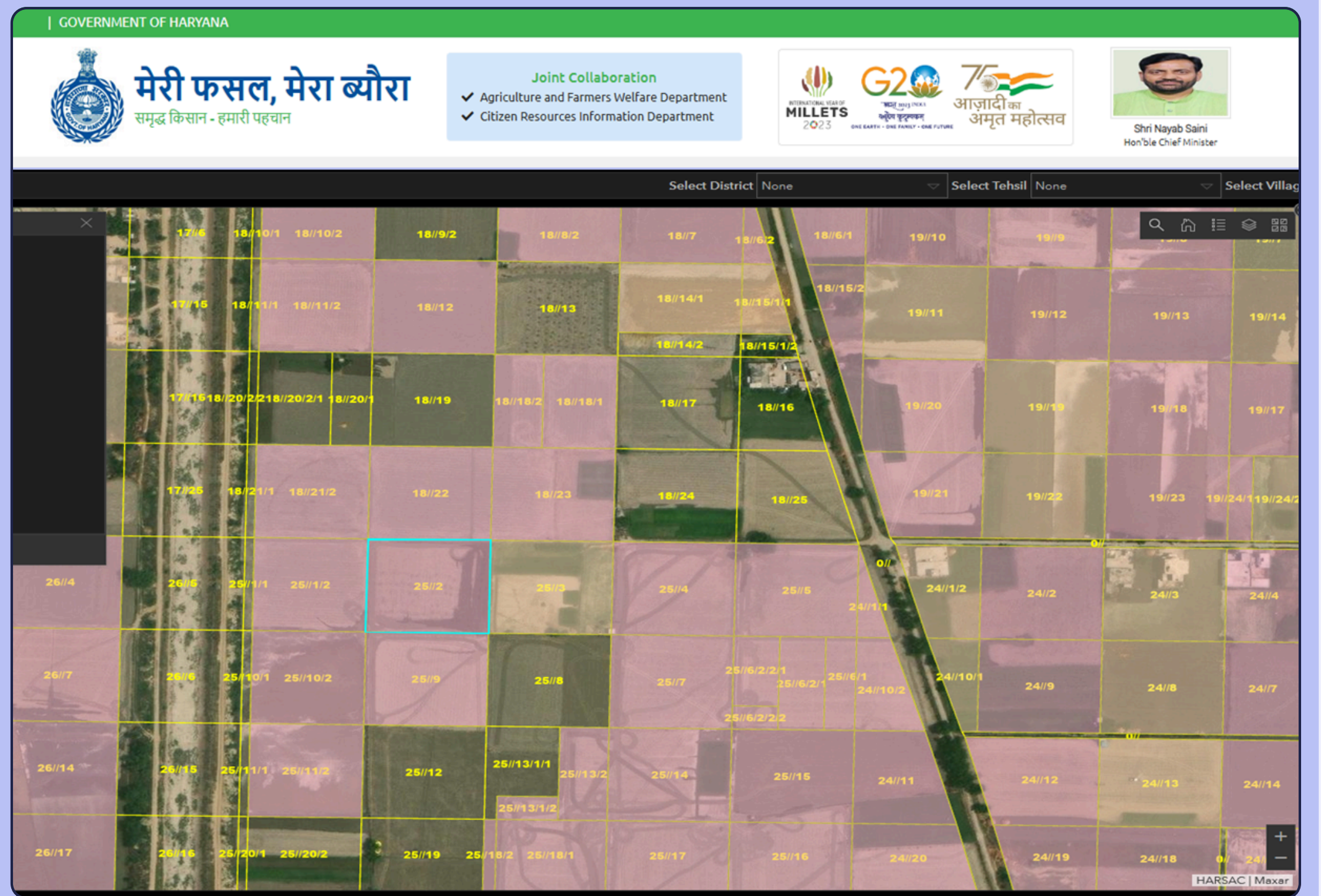


Why Important

- Agriculture faces low productivity, climate risks, and limited market access
- Smallholder farmers lack financial services, infrastructure, and information
- Digital systems bridge these gaps through timely insights, transparent data, and efficient service delivery
- Enhances productivity, resilience, market access, and sustainability

Core Components

- **AI & Digital Advisory**
Real-time crop, soil, and weather recommendations.
- **Market Linkages**
Digital marketplaces connecting farmers to buyers and services
- **Smart Supply Chains**
Traceability, logistics monitoring, and quality assurance tools
- **Smart Farm Management**
IoT sensors, automated irrigation and resource optimization
- **Digital Finance & Insurance**
Credit access, payments, and risk management solutions



Digital Agriculture Ecosystems

Iterative



1 Diagnostic Assessment
Analyze digital agriculture ecosystem, policies & introduce initiatives

2 Use Case Prioritization
Identify and prioritize digital agriculture use cases & initiatives based on criteria such as impt and feasibility

3 Vision Development
Define vision and strategy for DA, ensuring alignment with national priorities and stakeholder aspirations

5 Implementation Planning
Develop plan to implement use cases and initiatives including business cases and governance

Early and ongoing stakeholder engagement with government sponsors, funders, and others to ensure alignment and effectiveness