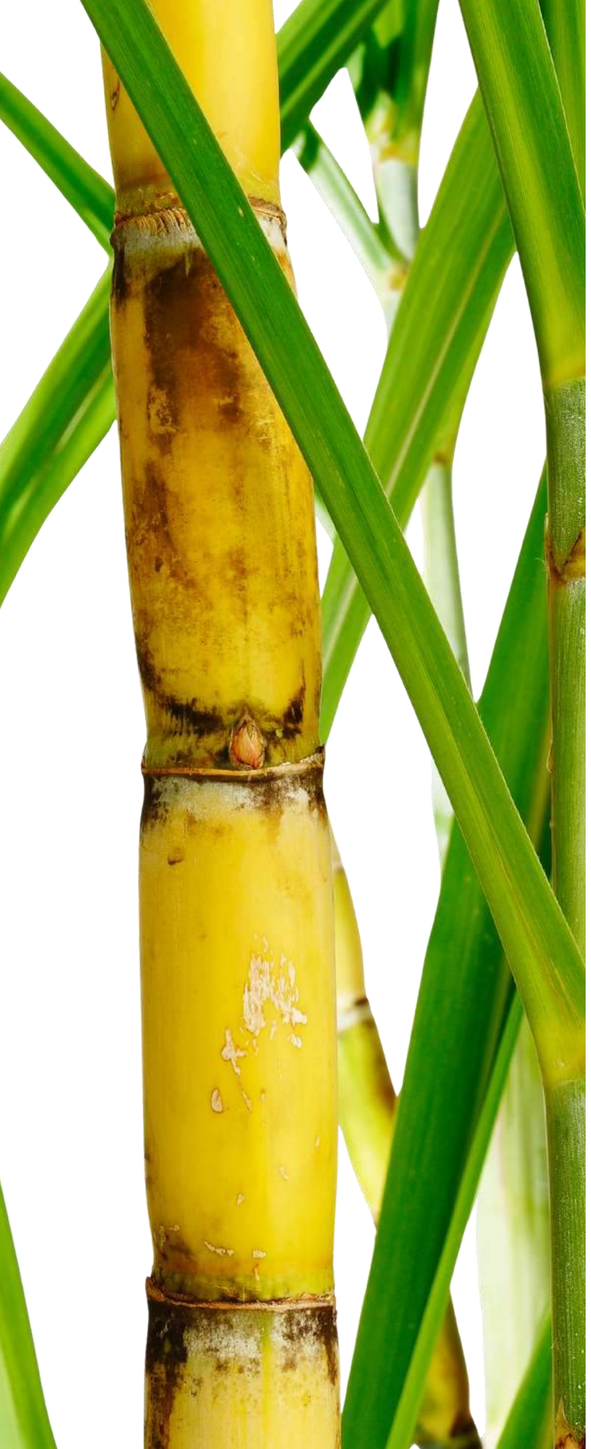

PlanetEye Farm-AI

Smart Sugarcane Farming with Technology

Organized by- PlanetEye Farm-AI Limited

CROPEYE™

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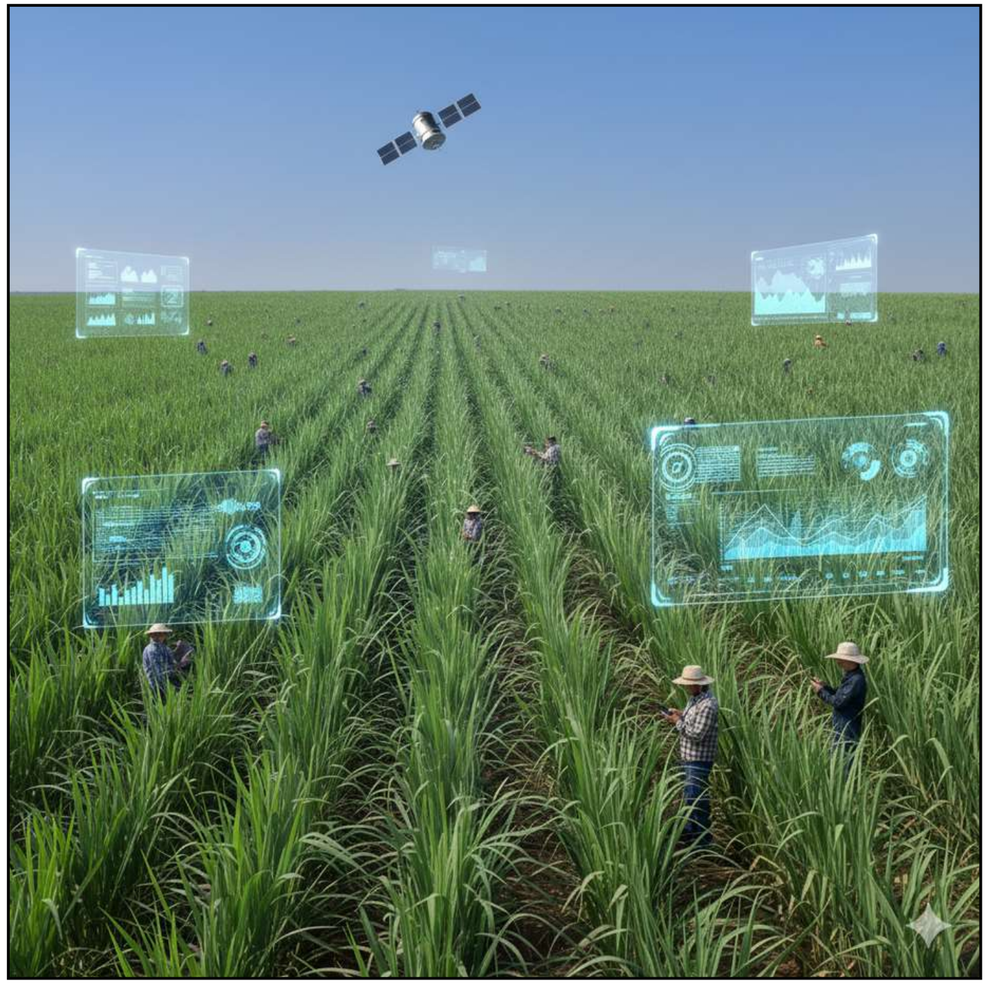
Why Sugarcane ?

- Grown in 100+ Countries
- Source of Sugar, Ethanol, Biofuel, and Green Energy
- Supports livelihood of millions of farmers
- Significant role in food security and sustainable energy



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Why Technology in Farming ?

- Traditional practices face climate and resource challenges
- Technology enables precision farming
- Improves efficiency, productivity, and sustainability
- Bridges gap between farmer practices and global demand

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Technology in Farming

- **Drones:** Localized imaging, field scouting
- **Satellite Imagery**: Large-scale monitoring, weather and crop health insights, from fields to regions
- **AI & Machine Learning**: Predictive analytics, early alerts, decision support

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Drones and Satellite in Farming

Drone

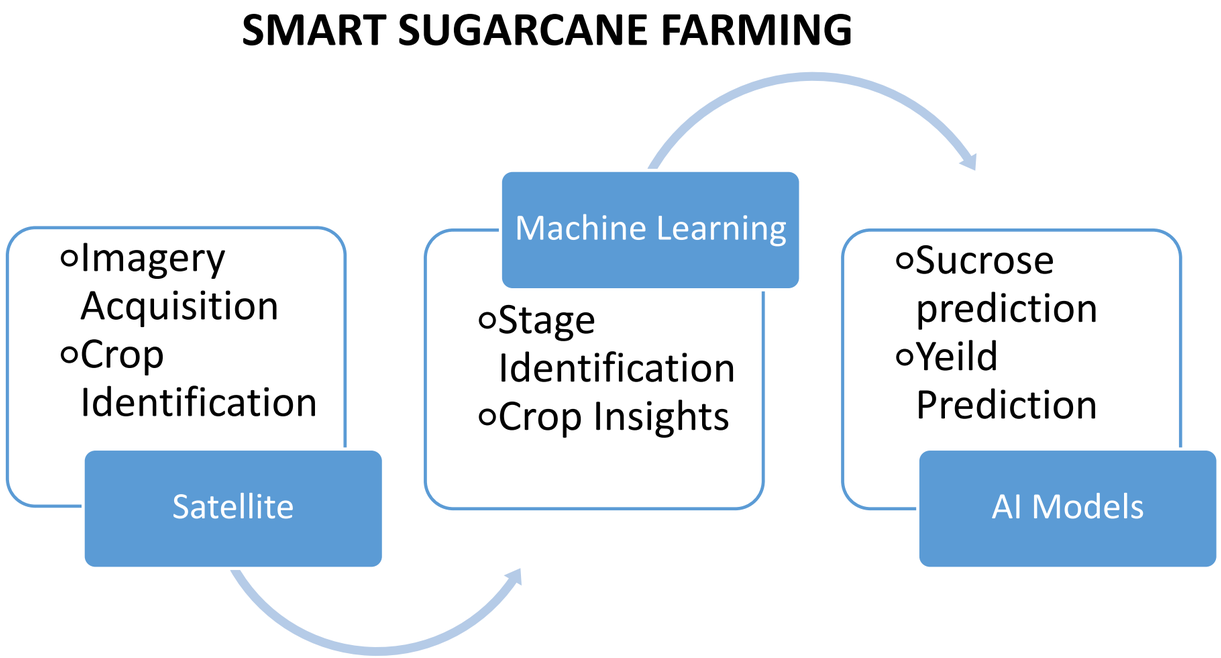
- Small Coverage
- High Cost
- Weather-dependent

Satellite

- Wide Coverage
- Frequent updates
- Cost-effective
- Historical data access

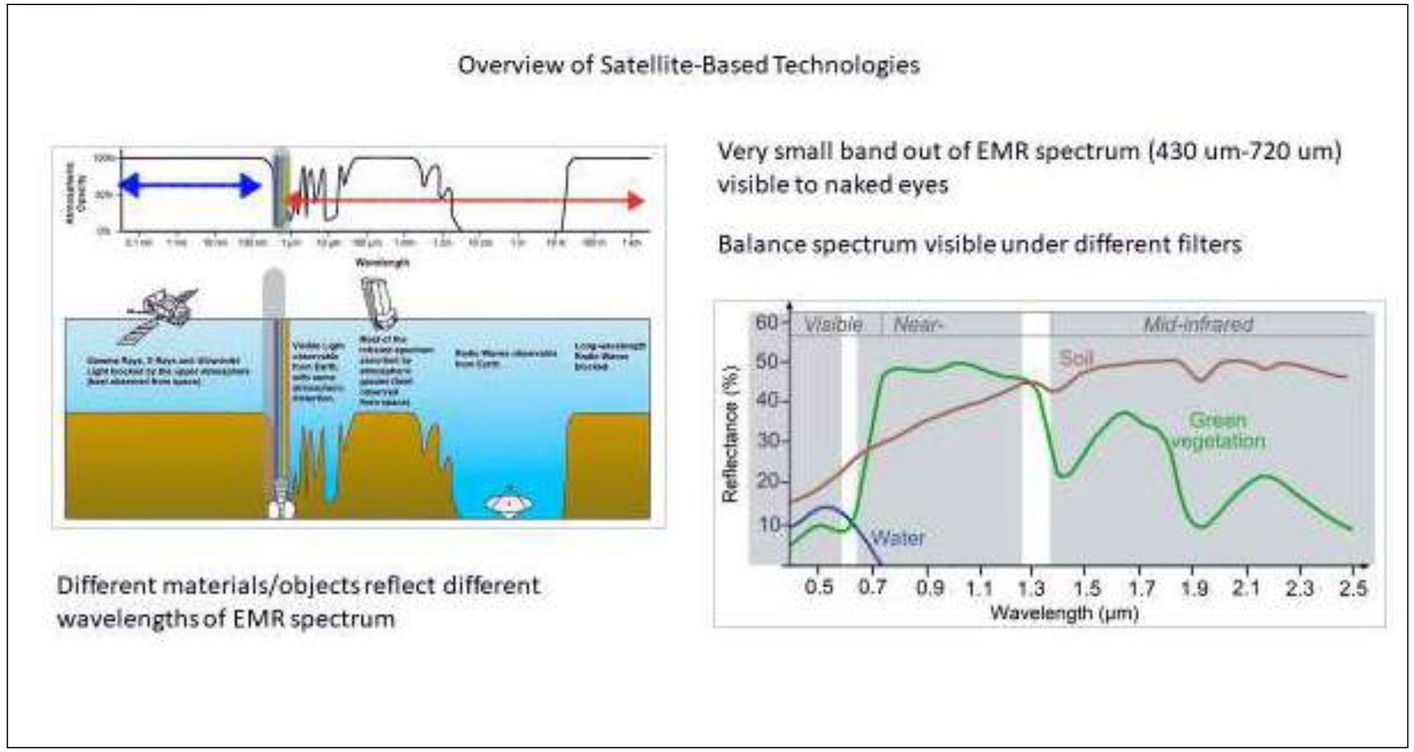
Role of AI in Agriculture

- Reduces losses via early detection & prediction
- Increases profits with resource optimization
- Forecast yield, pest, irrigation & market trends
- Provides data-driven decision-making for farmers & industries



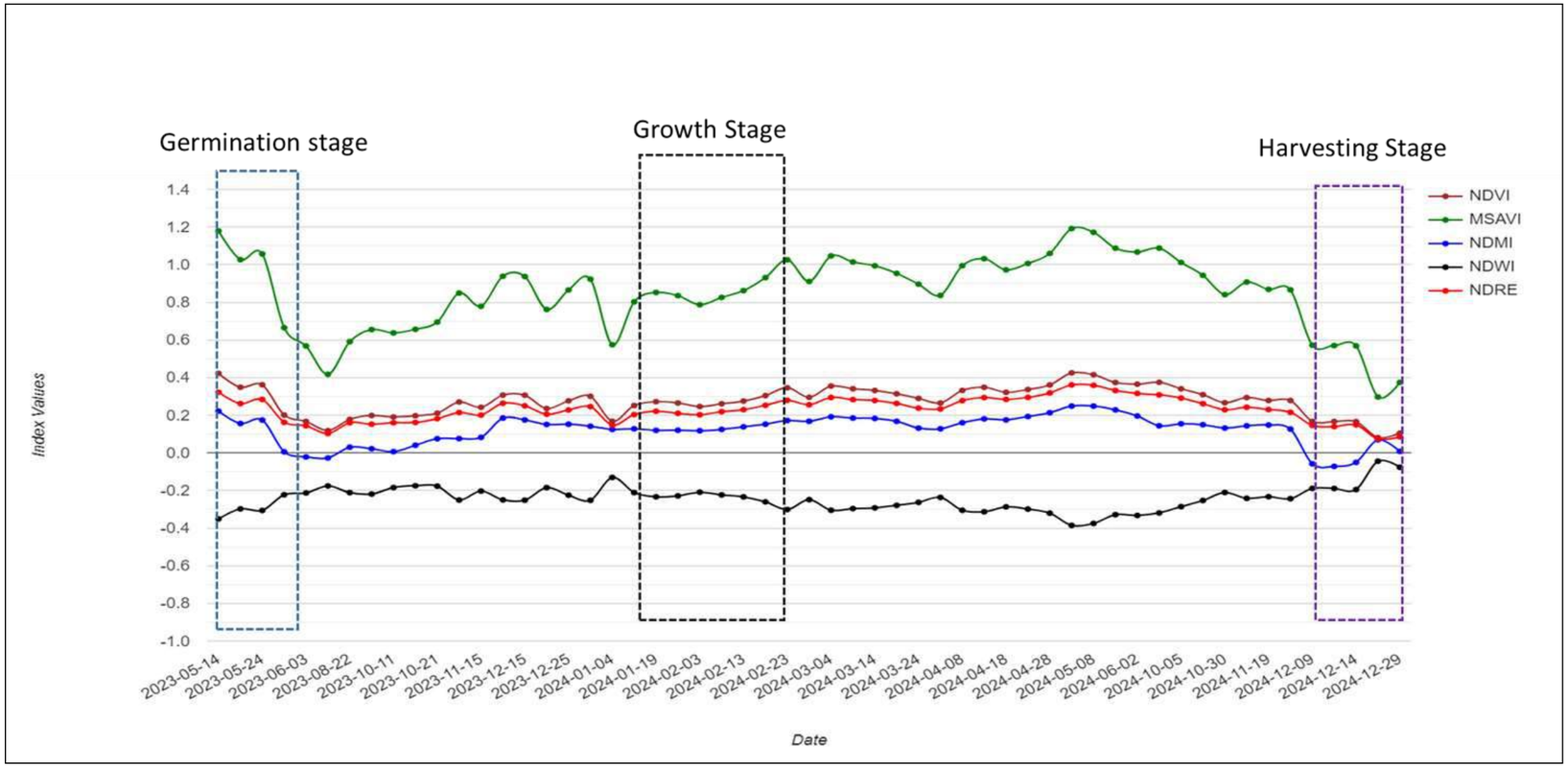
Technology for Forecasting

- Predicts crop growth & harvesting timelines
- Anticipate disease outbreaks & pest risks
- Estimates water demand & soil health trends
- Helps in climate-resilient farming strategies



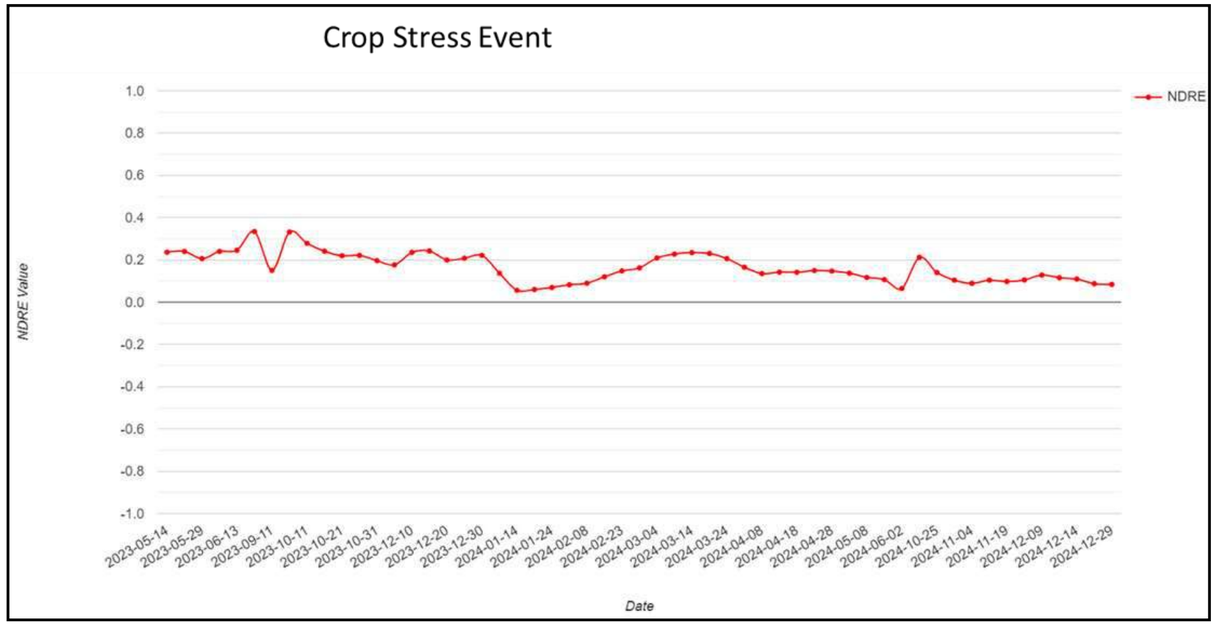
Sugarcane Growth Monitoring

- Satellite tracks growth stages of cane
- Detects stress areas in fields
- Monitors biomass & canopy development
- Enables timely interventions for better yeild



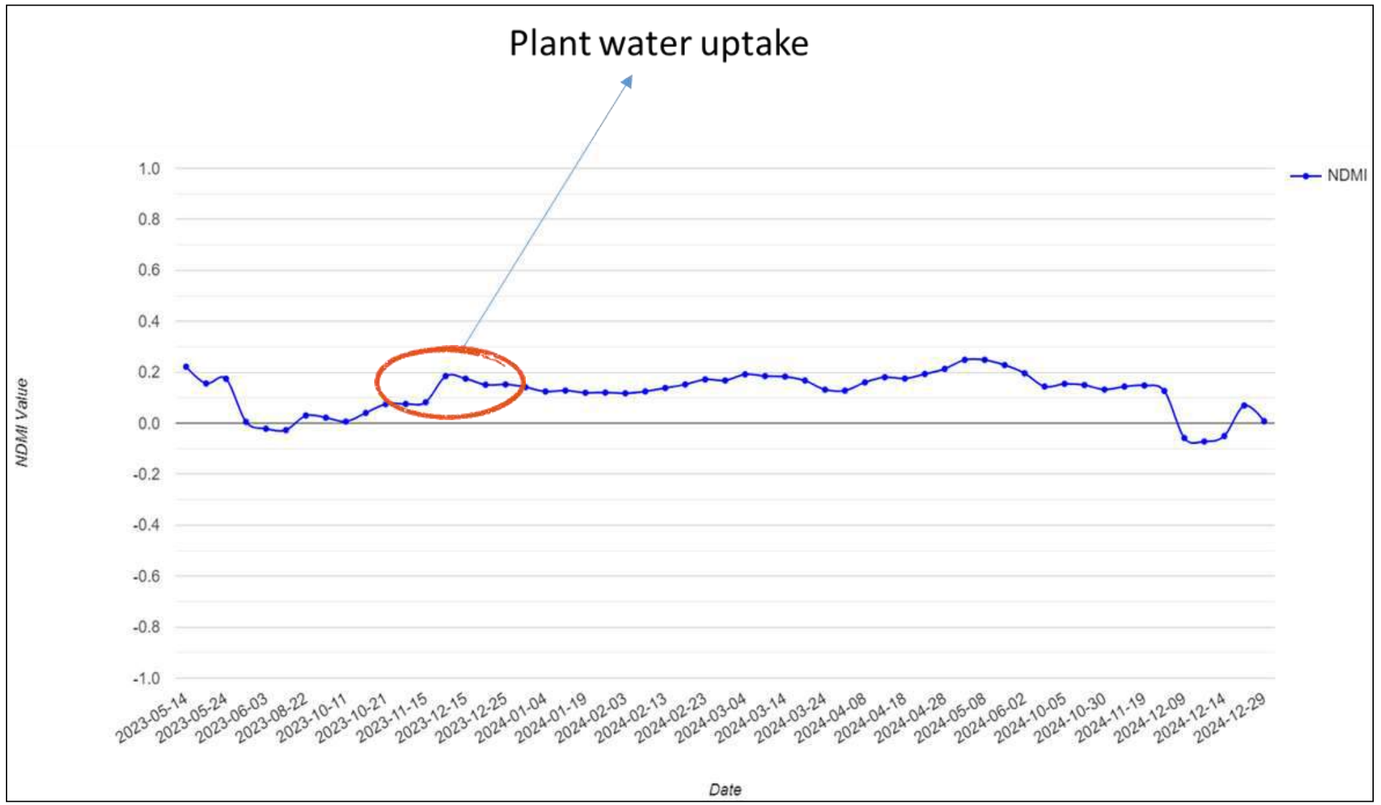
Pest & Disease Detection

- Red rot Disease detection using spectral indices
- White Grub Infestation identified via vegetation changes
- Early alerts prevent large-scale crop damage
- Supports integrated pest management strategies



Irrigation Monitoring

- Satellites assess soil moisture & water stress
- Identify under-irrigated & over-irrigated zones
- Sensor limitations (local + condition dependent)
- Satellite (Regional + scalable)
- Promotes efficient water resource management



SOIL ANALYSIS AI BASED

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pH, Organic Carbon, Soil Type

Soil analysis in depth

Artificial Intelligence Based

Analysis Points

- Bulk density
- Cation exchange capacity
- Clay content
- Coarse fragments
- Soil organic carbon
- Soil PH in water and KCl
- Silt content
- Sand content
- Soil class

- Satellite data with AI enables farmers to assess soil conditions on a large scale.
- By analyzing imagery and other geospatial data, farmers can identify variations in soil properties such as nutrient levels, moisture content, and soil structure.
- This information helps farmers apply fertilizers and irrigation precisely based on the specific needs of different areas within their fields.
- Soil mapping through satellite technology also aids in identifying areas at risk of soil erosion and helps implement preventive measures.

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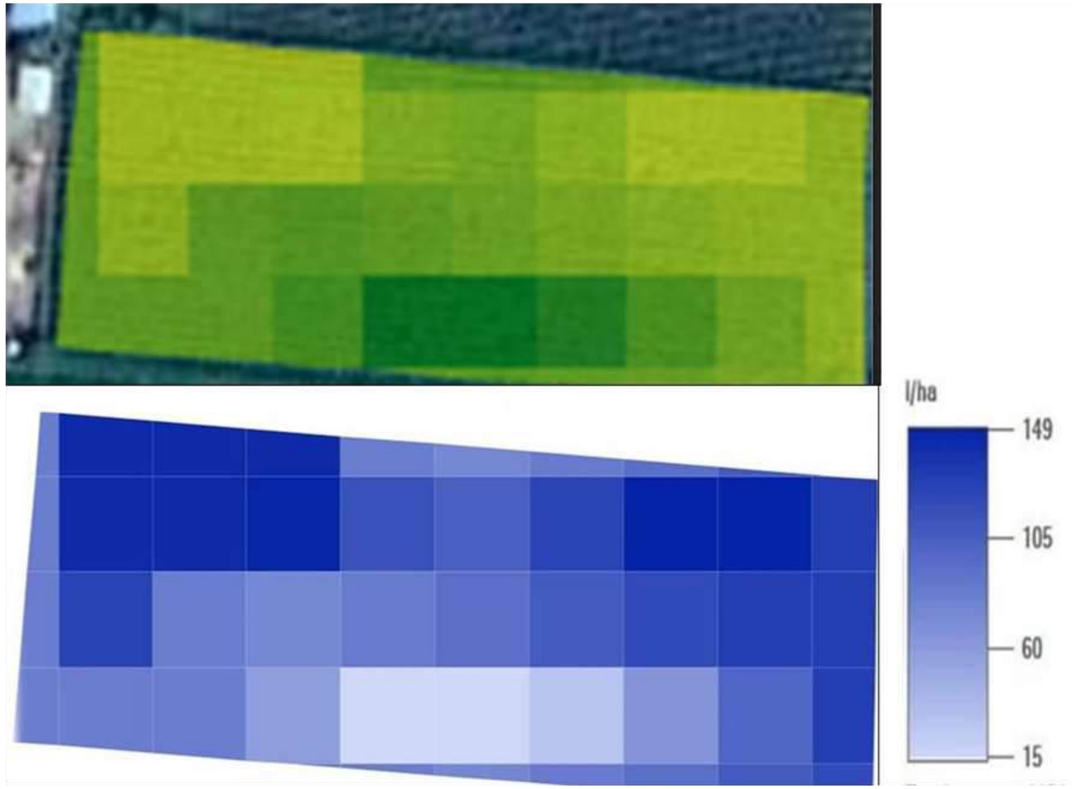
SUGARCANE FERTILIZER PREDICTION

Macronutrients



Macronutrient Under Process

- **Nitrogen**
- **Phosphorus**
- **Potassium**
- **Soil organic carbon**

Nutrient wise Field scan → **Nutrient status confirmation** → **Nutrient status recommendation**

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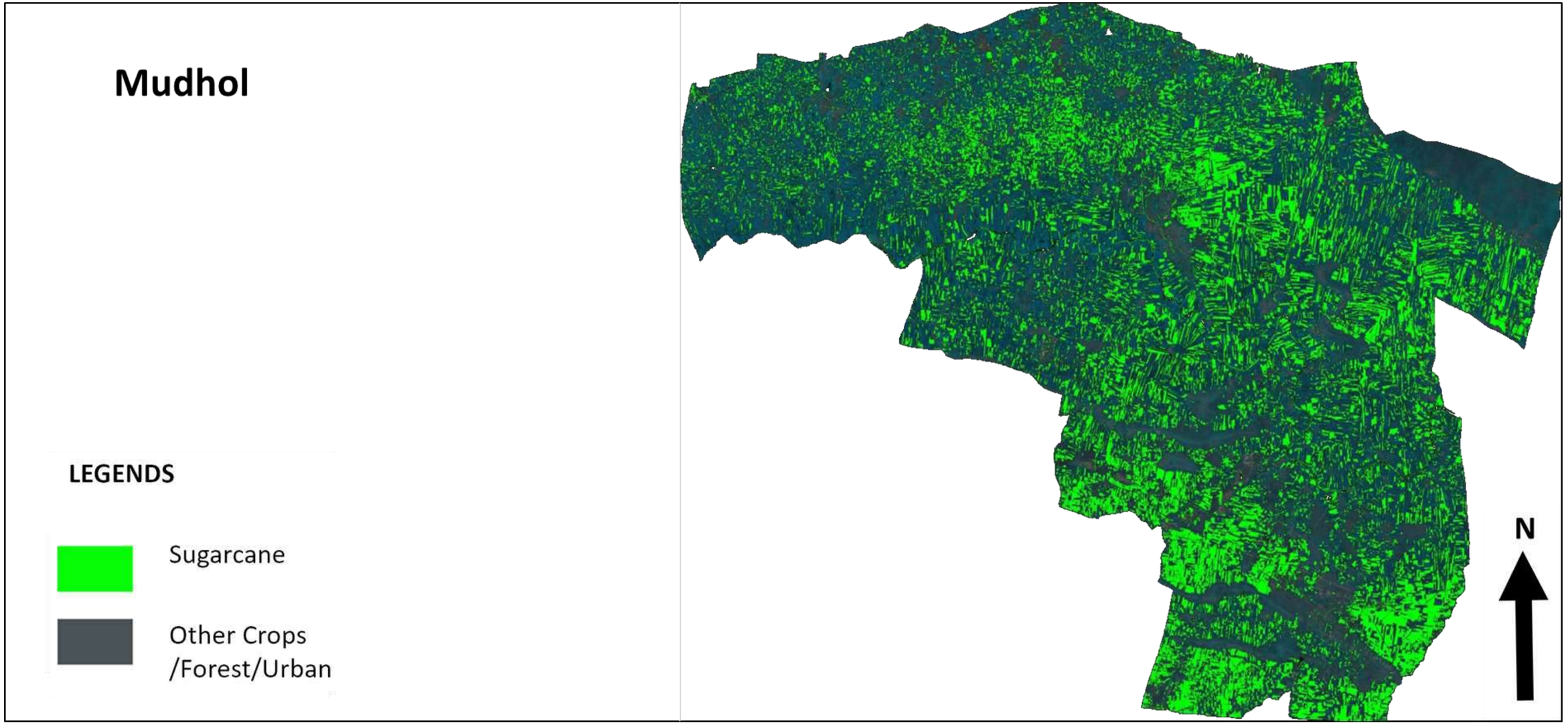
Mudhol



Classified sugarcane cover Image of Mudhol Taluka

Government Schemes and Support

- National and International level urge to incorporate AI in agriculture
- Digital Agriculture Mission encouraging smart farming
- Subsidies & policies supporting precision farming tools
- Indian Govt. unveiled **₹ 6,000 Crore** Digital Agriculture Plan under Special Central Assistance with states including Maharashtra

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CROPEYE

INTRODUCTION OF

PRODUCTS

Value Proposition		Benefits
AI-Powered Crop Monitoring	01	*Reduce Crop Losses by 20–30%*
Hyperlocal Weather Forecasts	02	*Accurate Weather Alerts Save Inputs*
Early Pest & Disease Detection	03	*Minimize Pest & Disease Impact*
Smart Insights Dashboard	04	*User-Friendly Digital Platform*
Actionable Field Analytics	05	*Real-Time Decision Support*
Predictive Yield Modeling	06	*Higher Yield, Lower Costs*
Optimized Irrigation Planning	07	*Sustainable Water Usage*

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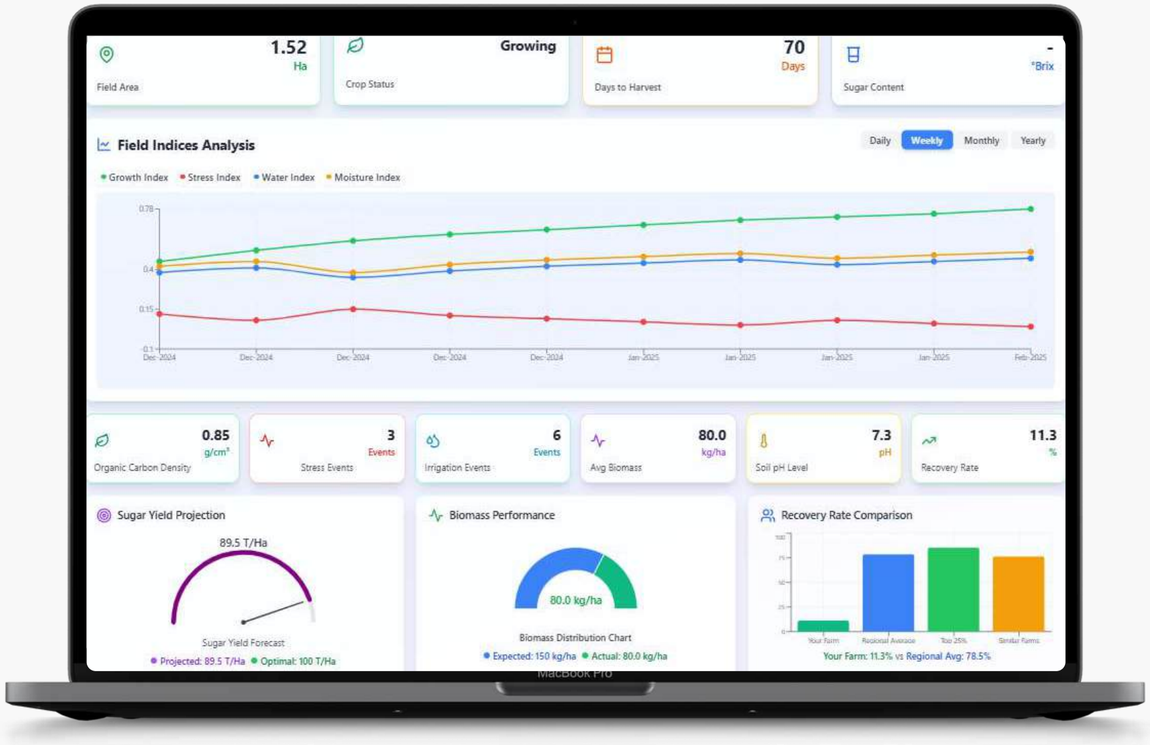

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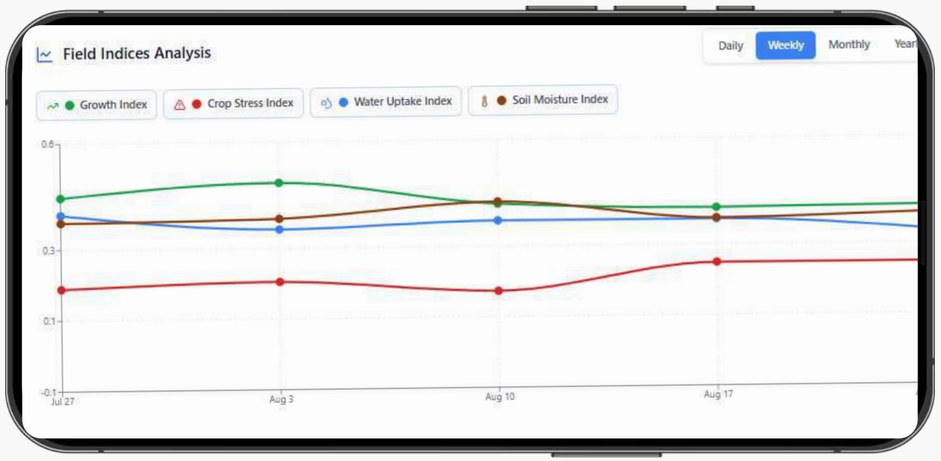

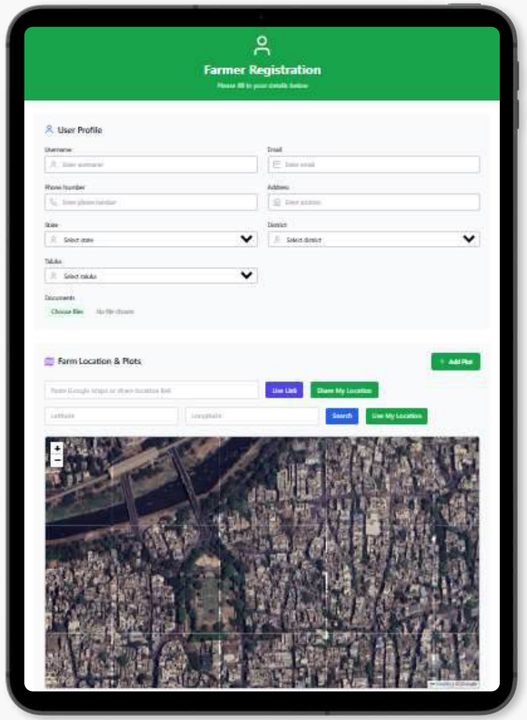

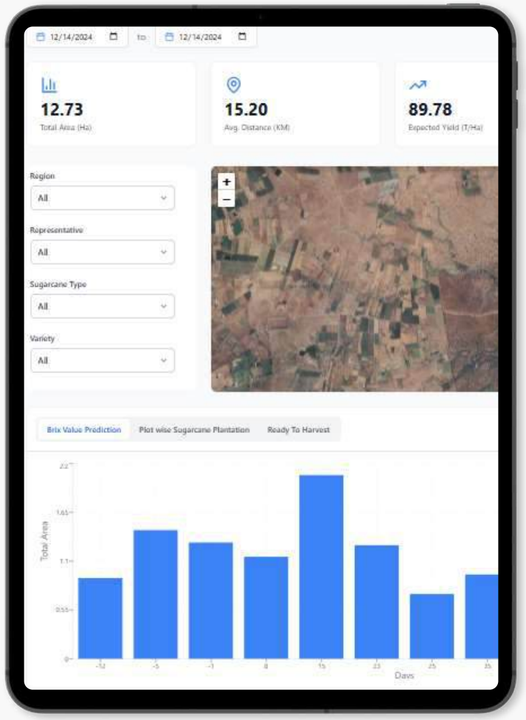

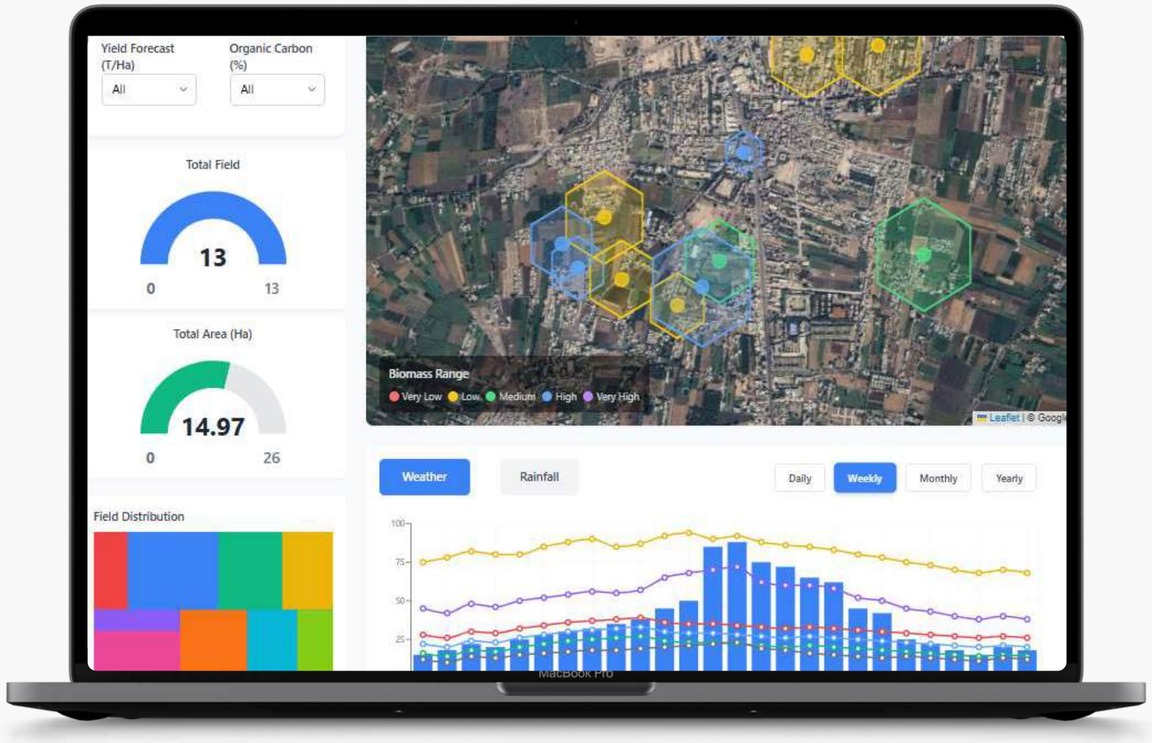

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