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TRANSFORM  
YOUR FARMING  
WITH SMART  
DRONE  
TECHNOLOGY

# Smart agriculture tools

- Crop Monitoring
- Weather forecasting
- Smart irrigation
- Pest & disease Detection
- Fertilizer Guidance
- Market Connection
- Data Reports



# Crop Monitoring

## Soil Monitoring:

It measures soil moisture levels to avoid over/underwatering

Track soil temperature for seed germination condition.

Check soil PH and nutrient content.



# Weather Forecasting



- **Short term forecasting(1-7 days)**  
plan daily irrigation, spraying or harvesting
- **Medium term forecasting(7-30 days)**  
adjust crop care for seasonal changes
- **Long term/seasonal forecasting(1-6 months)**  
Decide crop selection and rotation based on predicted rainfall and temperature and trends.

# Smart Irrigation

- **Drip irrigation with sensors**  
Delivers water directly to plant roots.
- **sprinkler systems with timers**  
automated spray based on set times  
or conditions.
- **Subsurface irrigation**  
pipes deliver water below soil surface  
to minimize evaporation



# Pest & disease detection



- Detecting powery mildew in wheat via drone
- identifying fall armyworm larva in maize using AI traps
- spotting bacterial leaf blight in rice through satellite monitoring

# Fertilizer Guidance

Smart fertilizer guidance uses soil testing AI analysis and precis applications methods to give crop the right nutrients in the right amount at the right time for maximum yield and minimum waste



# Market connection

- **Local markets** – Farmers sell directly to nearby buyers (e.g., village markets, farm gates).
- **Wholesale markets** – Larger quantities sold to traders or intermediaries for wider distribution.
- **Retail markets** – Products sold directly to consumers through shops, supermarkets, or street vendors.
- **Export markets** – Agricultural goods shipped internationally.
- **Digital markets** – Online platforms and mobile apps connecting farmers with buyers (e.g., e-NAM in India).



# Data Reports

**Wheat surplus in India:** 2025 wheat harvest exceeds domestic needs; FCI procured up to 32.5 million tonnes, stock reaching ~44 million tonnes—no need for imports.

**Global food prices surge:** FAO's Food Price Index reached a 2-year high in July—driven by rising meat and vegetable oil costs, while cereals and sugar softened.

**Rice prices plunge:** Global rice prices dropped to eight-year lows, particularly after India lifted export restrictions and harvests surged.

**Vegetable prices spike in Patna:** Heavy rains damaged crops, drastically increasing prices of okra, tomatoes, gourds—leading households to shift diets.

**Basmati exports rise:** In fiscal 2024–25, basmati rice exports climbed in value to ₹50,312 crore—up ~4%—and volume surged 15.7%, across 154 countries.



# SMART AGRICULTURE CARE

