



# ARNOWA for Smart Agriculture

Grow Smarter. Conserve More.  
Harvest Better.

# Precision Agriculture Meets Intelligence

Traditional farming alone can no longer meet the challenges of climate variability, resource constraints, and global food demand. Arnowa empowers farmers, cooperatives, and agri-enterprises with an AIoT platform that delivers real-time insights, predictive analytics, and automated controls—optimising productivity, reducing waste, and driving sustainable outcomes across the agricultural value chain.

## Core Capabilities

### Intelligent Irrigation & Water Management



- AI-driven soil moisture and weather-based irrigation scheduling.
- Centralised control of pumps, valves, and water distribution systems.
- Integrates water storage and rainwater management for optimal usage.

### Soil, Crop & Pest Management



- Real-time monitoring of soil health, nutrients, and moisture.
- Early detection of pests and diseases
- Precision crop management: growth tracking, fertilisation, and harvesting optimisation.
- Drone, Video and sensor-based crop surveillance for yield maximisation.

### Sustainability, Compliance & Reporting



- Track water, energy, and chemical usage to meet ESG and local regulations.
- Generate audit-ready reports for FSSAI, HACCP, or other agricultural standards.
- Monitor and track emissions across the agricultural supply chain

### Greenhouse & Controlled Environment Agriculture



- Climate control (temperature, humidity, light) and irrigation automation.
- Real-time monitoring of crop growth, energy usage, and environmental conditions.
- Integration with renewable energy, microgrids, and agrovoltatics for sustainability.

### AI-Powered Analytics & Video Intelligence



- Predictive insights for effective and timely maintenance.
- AI enabled Video analytics for anomaly detection enabling field surveillance, workflow optimisation, safety and livestock monitoring.
- Agentic AI for autonomous optimisation of farm operations.
- Centralised dashboards and digital twin visualisation for real-time decision-making.

### Livestock & Farm Operations



- Track livestock health, activity, and location with wearable sensors.
- Silo and storage monitoring and management for grains, feed, and farm produce.
- Equipment condition monitoring and predictive maintenance for tractors and machinery.
- Resource tracking: inputs, outputs, and operational workflows for efficiency.

## A Few Use Cases



### Open Fields & Crop Farms

Monitor soil health, irrigation, crop growth, pest/disease activity, and resource use at scale.



### Livestock & Dairy Farms

Track animal health, activity, feed, and water usage across barns and pastures.



### Cooperatives, FPOs & Agri-Institutes

Centralised monitoring and predictive insights across multiple farms or research facilities.



### Greenhouses & Controlled Environment Agriculture

Optimise climate, lighting, humidity, and irrigation for high-value crops.



### Agro-Processing, Storage & Silos

Manage silos, cold storage, feed storage, and farm produce conditions.



### Agrovoltatics

Integrate solar, microgrids, and energy-efficient systems with farm operations.



## Benefits at a Glance

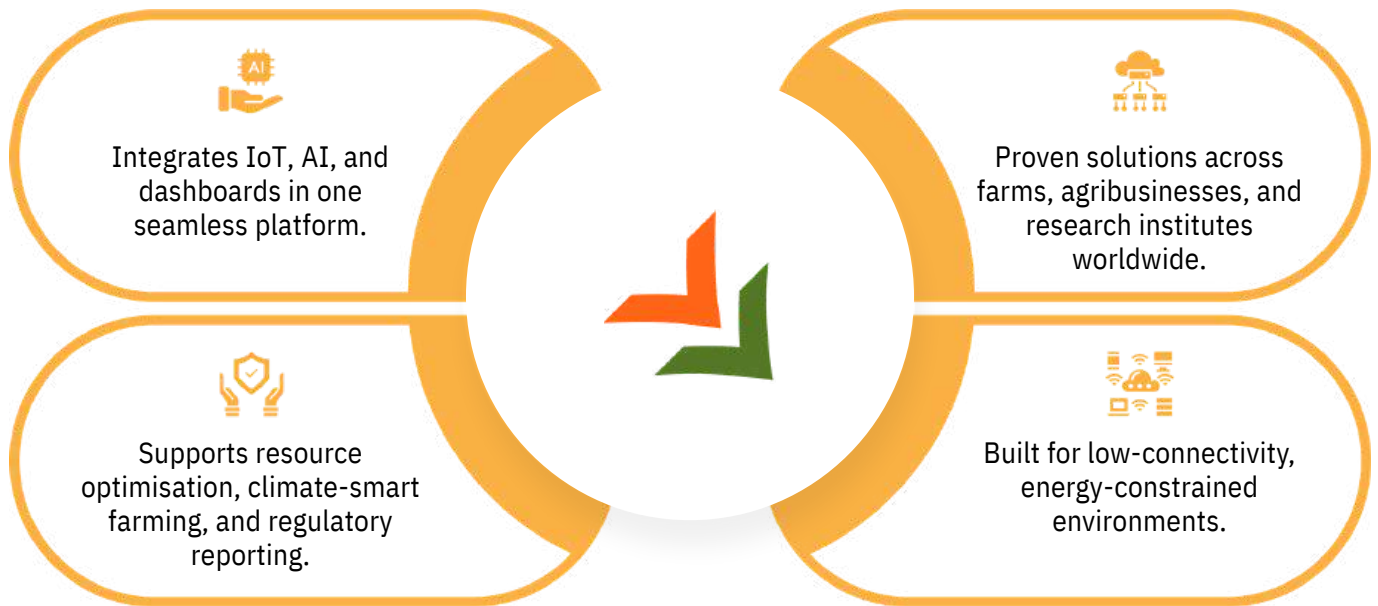
- **Higher Yields, Lower Risk** – Make confident decisions with insights for crops, livestock, and climate events.
- **Resource Optimisation** – Efficiently manage water, energy, and inputs to reduce costs and environmental impact.
- **Regulatory & ESG Compliance** – Automated reporting for sustainability, traceability, and farm certifications.
- **End-to-End Visibility** – Centralised view across fields, silos, greenhouses, and cooperatives for better planning.
- **Operational Agility** – Quickly adapt to changing conditions with real-time alerts and intelligent controls.
- **Scalable & Flexible** – Deploy across farms, research institutions, and cooperatives of any size.

## Tech Integration

- IoT sensors
- AI & cloud analytics
- Edge processing
- AI driven video analytics
- 2D and 3D Digital twins
- RFID tracking
- Unified dashboard



# Why Choose Arnowa?



## Farming That Listens, Learns & Leads.

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**LoRa Alliance** localbuy

**IoTA**  
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**AUSTRALIAN MADE**

**PREFERRED SUPPLIER**



*With Arnowa, agriculture becomes more resilient, efficient, and profitable—from seed to harvest.*