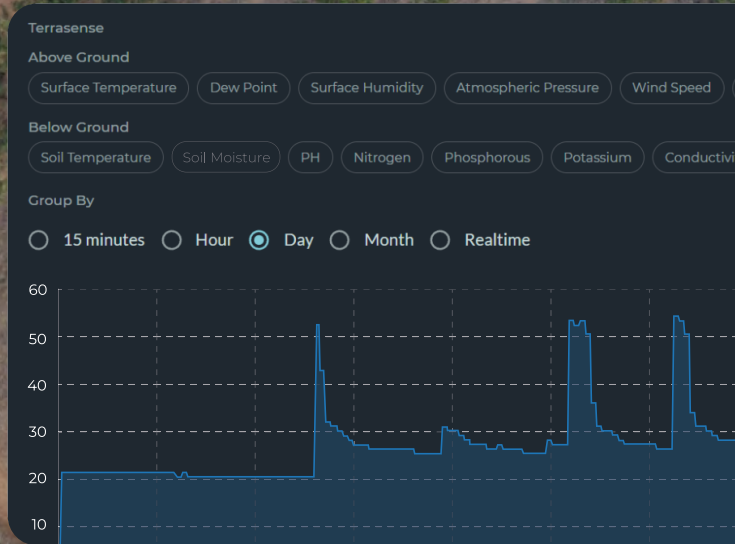




# ERGOAGRI.

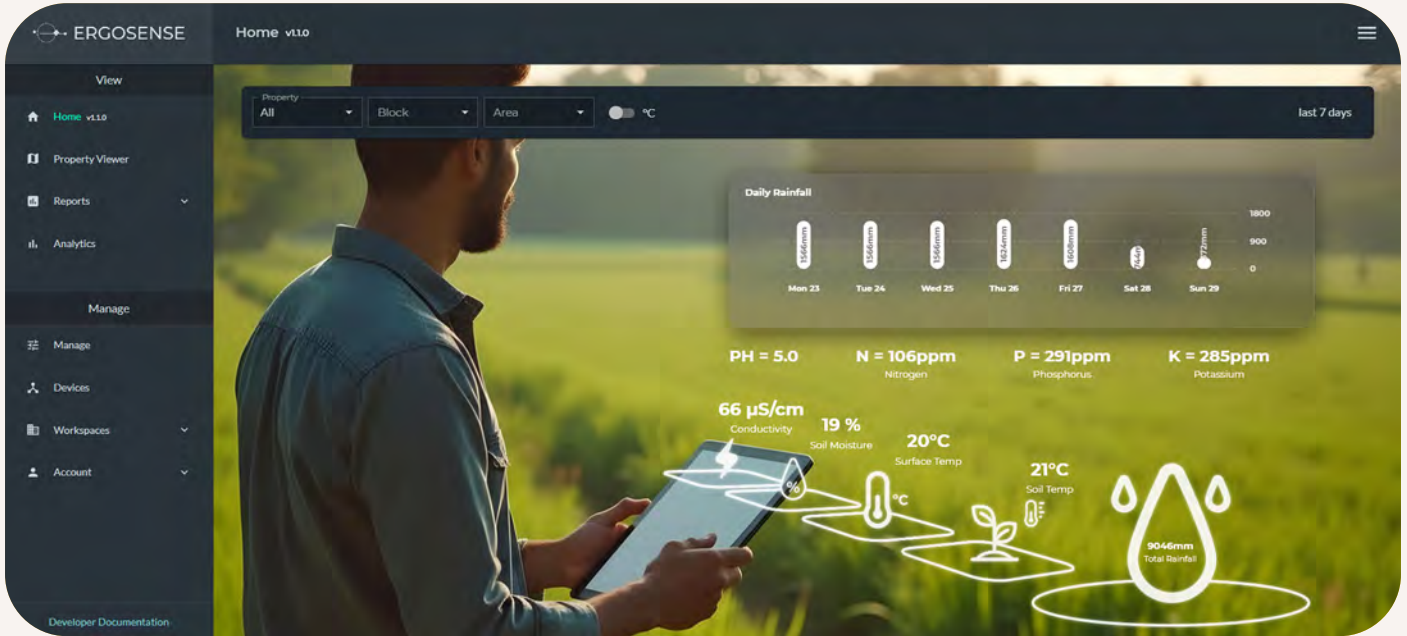
Realtime Continuous  
Soil Tracking



# DASHBOARD

Realtime Data Visualization

The ErgoAgri dashboard is the central platform that brings together all sensor data into one clear, user-friendly interface. It integrates SoilSense, WeatherSense, and HydroSense, allowing you to monitor soil conditions, microclimate data, and hydroponic systems in real time without needing multiple applications. Data is collected automatically and presented



in a way that can be filtered and customised to suit your specific farm, crop, or operational needs. Users can set their own notification thresholds, ensuring they are alerted when conditions require attention, such as changes in moisture, pH, or weather patterns. The dashboard also provides historical trends and visual insights to help farmers and

growers make insightful decisions over time. With built-in API functionality, ErgoAgri allows seamless integration into other farm management or reporting systems, giving you full control and flexibility.





# SoilSense.

## Soil Sensor

### Insightful Operation

Real-time data supports better irrigation, fertilisation, and crop management decisions.

### Reduced Input Costs

Accurate monitoring reduces unnecessary water, fertiliser, and chemical usage.

### Increased Crop Productivity

Consistent monitoring improves plant health, nutrient uptake, and overall yield.

Soilsense is a modular soil and environmental sensing system designed to give farmers accurate, real-time insight into the conditions that drive crop performance. Instead of a single sensor, Soilsense offers a range of specialised probes that measure key soil and root-zone parameters at different depths\*, allowing users to select the exact combination of data needed for their operation. Sensor units are modular, with up to 3 probes that can be placed at desired depths.

Built for precision agriculture and South African farming conditions, Soilsense supports better decision-making around irrigation, fertilisation, and long-term soil management.

#### THpHEC+NPK

Measures Nitrogen (N), Phosphorus (P), and Potassium (K) levels in the soil. Supports accurate fertiliser planning and nutrient management.

#### THpHEC

Measures Temperature, Humidity, pH, and Electrical Conductivity (EC). Provides a complete view of soil conditions, including acidity and salinity.

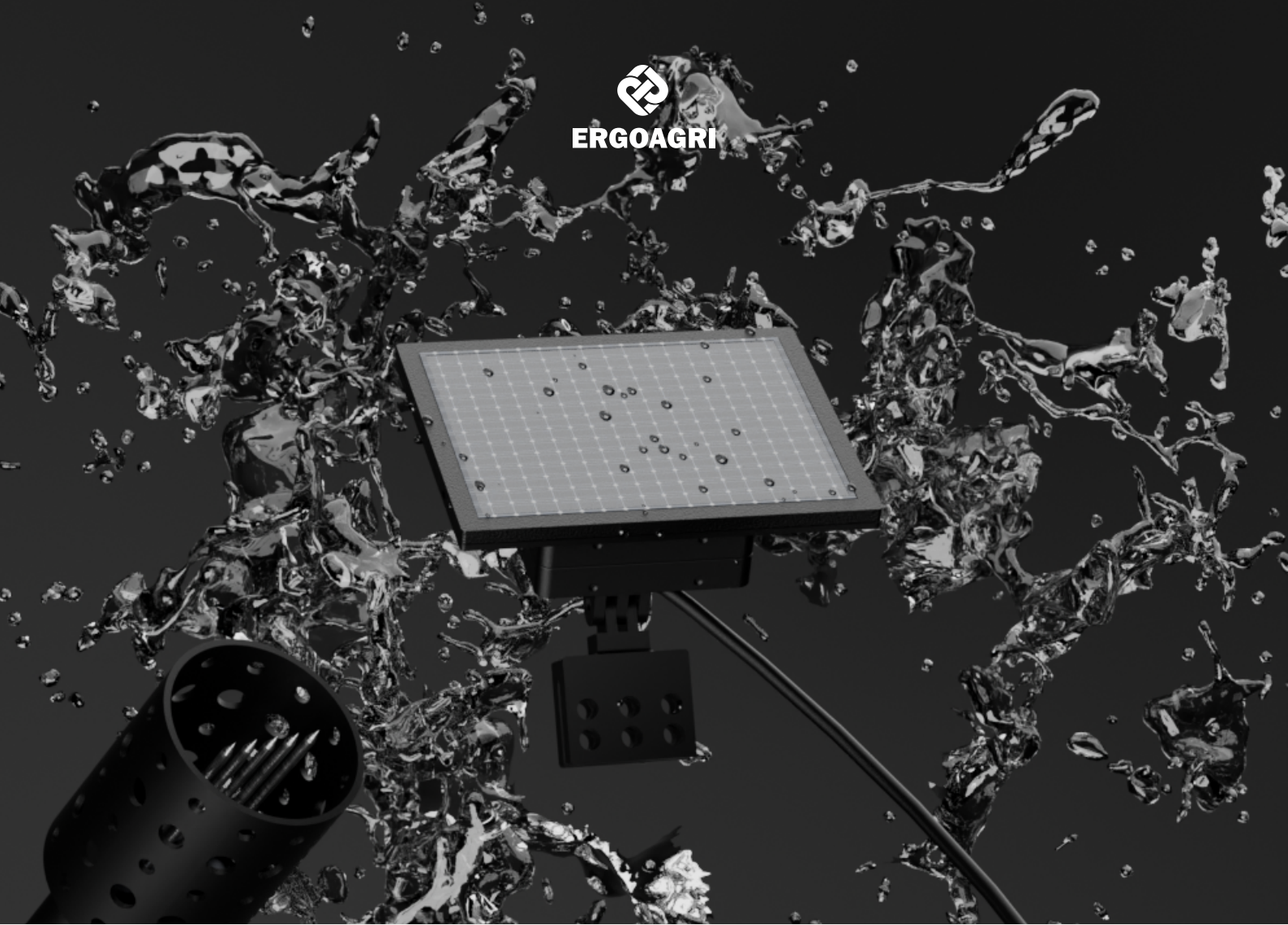
#### THEC

Measures Temperature, Humidity, and Electrical Conductivity (EC). Ideal for monitoring moisture behaviour and salinity without pH tracking.

#### TH

Measures Temperature and Humidity. A simple, cost-effective option for basic soil moisture and temperature monitoring.

*Available Sensors\**



# HydroSense.

## Hydroponic Sensor

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### Insightful Operation

Real-time data supports better irrigation, fertilisation, and crop management decisions.

### Reduced Input Costs

Accurate monitoring reduces unnecessary water, fertiliser, and chemical usage.

### Increased Crop Productivity

Consistent monitoring improves plant health, nutrient uptake, and overall yield.

HydroSense is an advanced monitoring solution developed specifically for hydroponic and controlled-environment agriculture. Designed to measure the key water and nutrient conditions that determine plant performance, HydroSense provides real-time insight into nutrient solution quality, helping growers maintain stable conditions for optimal growth, yield, and crop consistency.

HydroSense supports precision management of hydroponic systems by ensuring that water chemistry, dissolved nutrients, and root-zone conditions remain within ideal ranges throughout the growing cycle.

### Temperature

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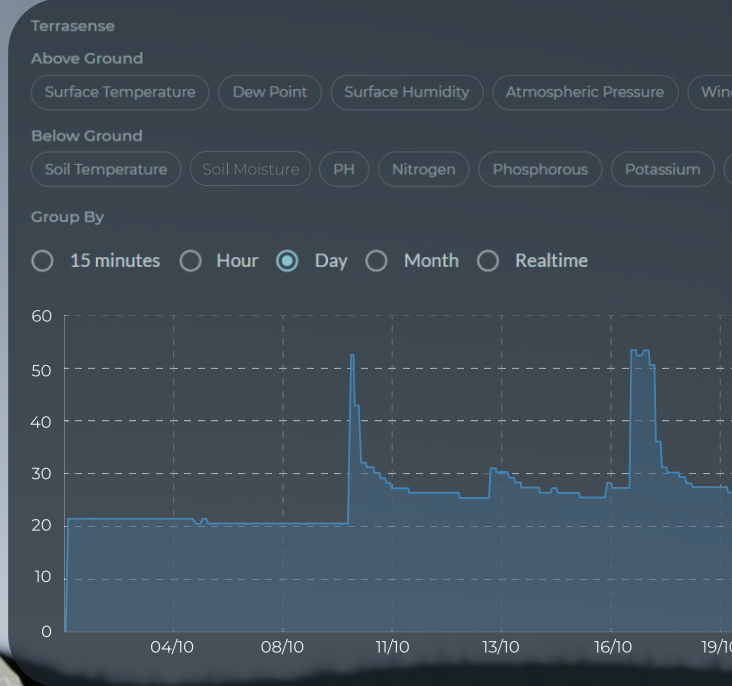
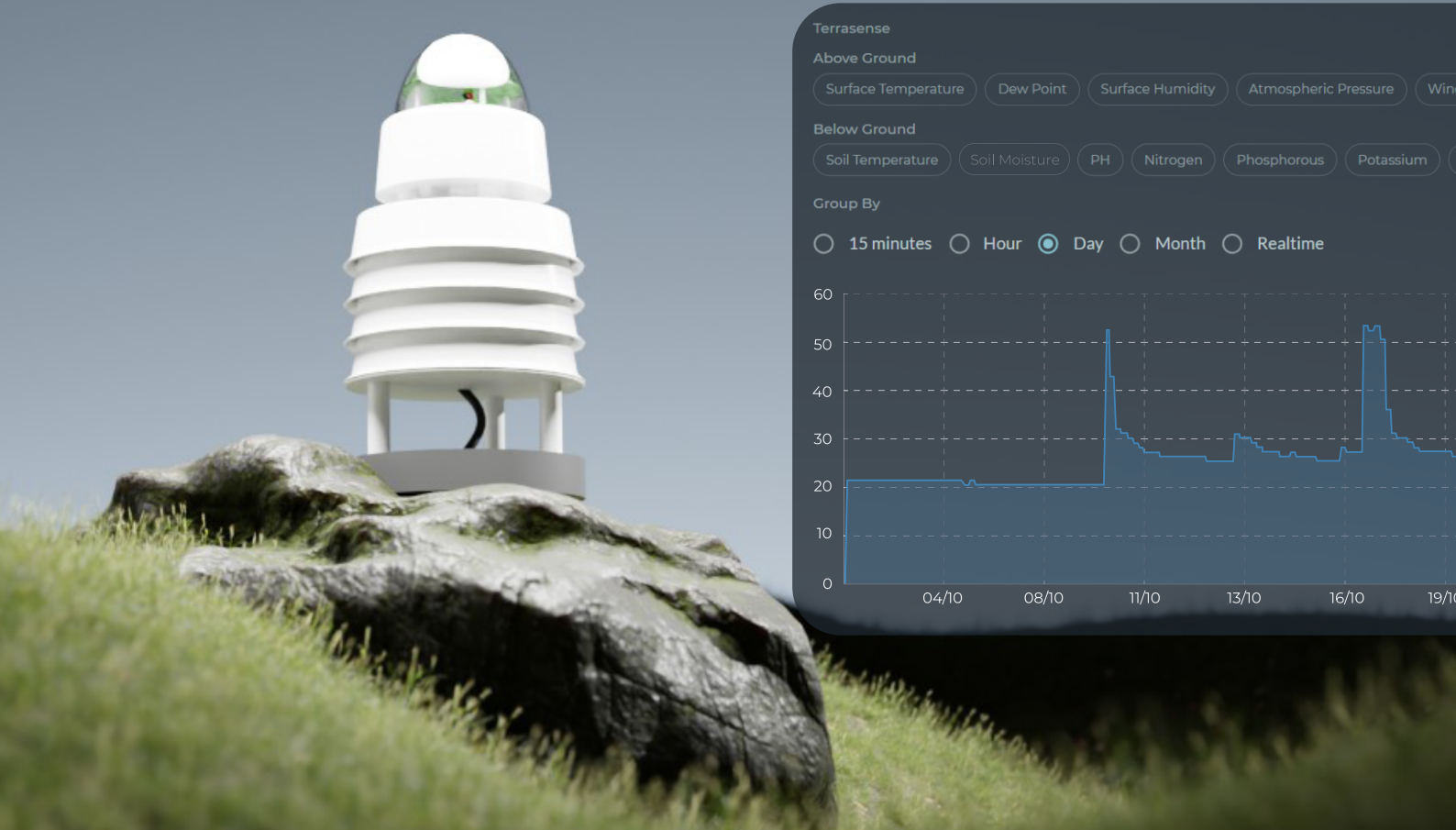
### pH

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### EC

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*Electrical Conductivity*



# WeatherSense.

## Weather Station

### Insightful Operation

Real-time data supports better irrigation, fertilisation, and crop management decisions.

### Reduced Input Costs

Accurate monitoring reduces unnecessary water, fertiliser, and chemical usage.

### Increased Crop Productivity

Consistent monitoring improves plant health, nutrient uptake, and overall yield.

WeatherSense is an advanced microclimate monitoring system designed to measure the key environmental conditions that influence soil health, crop performance, and farm management decisions. By tracking real-time weather and air-quality metrics directly on-site, WeatherSense helps farmers respond quickly to changing conditions, reduce risk, and improve overall productivity.

Built for outdoor agricultural environments, WeatherSense provides accurate, field-level insight that supports smarter irrigation planning, nutrient management, and long-term soil sustainability.

Temperature

Rainfall

Dew Point

Wind Direction

Wind Speed

Atmospheric pressure

Solar radiation



# Microclimate Intelligence

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## Insightful Operation

Real-time data supports better irrigation, fertilisation, and crop management decisions.

Microclimate Intelligence provides detailed, real-time insight into the environmental conditions within your crop zone. Instead of relying on a single climate reading, this system uses multiple compact sensors placed throughout the growing area to capture variations in temperature, humidity, CO<sub>2</sub>, and light.

By monitoring these microclimates, growers gain a true understanding of how conditions differ across tunnels, greenhouses.

## Reduced Input Costs

Accurate monitoring reduces unnecessary water, fertiliser, and chemical usage.

## Increased Crop Productivity

Consistent monitoring improves plant health, nutrient uptake, and overall yield.

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Temperature

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Relative Humidity

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CO<sub>2</sub> concentration

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Light intensity

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Vapour Pressure Deficit

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# Packhouse & Cold Storage.

## Insightful Operation

Real-time data supports better irrigation, fertilisation, and crop management decisions.

Packhouse & Cold Storage Monitoring ensures that conditions after harvest are controlled and consistent, protecting product quality from processing through to dispatch. By continuously monitoring environmental and operational conditions, this system helps reduce losses, improve efficiency, and strengthen compliance.

### Operational

- Protect product quality at every stage
- Detect problems before they become losses
- Improve operational efficiency
- Strengthen traceability and compliance

## Reduced Input Costs

Accurate monitoring reduces unnecessary water, fertiliser, and chemical usage.

## Increased Crop Productivity

Consistent monitoring improves plant health, nutrient uptake, and overall yield.

Temperature

Relative Humidity

CO<sub>2</sub> concentration

VOC levels

AQI (Air Quality Index)



ERGOAGRI



# Internal Fruit Temperature Tracking

## Insightful Operation

Real-time data supports better irrigation, fertilisation, and crop management decisions.

## Reduced Input Costs

Accurate monitoring reduces unnecessary water, fertiliser, and chemical usage.

## Increased Crop Productivity

Consistent monitoring improves plant health, nutrient uptake, and overall yield.

Internal Fruit Temperature Tracking measures the core (pulp) temperature of fruit throughout the cold chain, providing accurate insight into how effectively produce is cooled and preserved. Unlike air temperature monitoring, this system tracks the actual temperature inside the fruit.

With ErgoAgri, you can:

- Track full temperature history per batch
- Identify weak points in your handling process
- Adjust cooling strategies based on real data
- Provide proof of compliance when required

## Internal fruit Temperature

### Cooling rate

### Time to reach target Temperature

### Temperature deviation

### Duration outside optimal range



# RFID Tracking & Batch Intelligence

## Insightful Operation

Real-time data supports better irrigation, fertilisation, and crop management decisions.

RFID Tracking & Batch Intelligence provides full visibility of product movement across your operation, from harvest to dispatch. By tagging bins, pallets, and batches, the system creates a real-time digital record of where everything is and how it moves.

You can start linking:

- Specific batches to temperature conditions
- Storage history to final product quality
- Handling time to shelf life outcomes

## Reduced Input Costs

Accurate monitoring reduces unnecessary water, fertiliser, and chemical usage.

This enables insightful decisions:

- Identify which batches experienced stress
- Improve grading and sorting decisions
- Reduce losses from delays or misplacement
- Optimise logistics and turnaround time

## Increased Crop Productivity

Consistent monitoring improves plant health, nutrient uptake, and overall yield.

## Batch location

## Time in each stage

## Movement history

## Handling duration per batch



# Occupancy/Presence

## Insightful Operation

Real-time data supports better irrigation, fertilisation, and crop management decisions.

Occupancy & Presence Monitoring provides real-time visibility into how people move and interact within your operational environment. Designed for packhouses, processing facilities, and controlled agricultural spaces, this system tracks presence, movement patterns, and activity levels to improve efficiency, safety, and workflow management.

By understanding where people are, how long they stay, and how spaces are used, growers and operators can optimise labour, reduce bottlenecks, and maintain consistent working conditions.

## Reduced Input Costs

Accurate monitoring reduces unnecessary water, fertiliser, and chemical usage.

## Increased Crop Productivity

Consistent monitoring improves plant health, nutrient uptake, and overall yield.

## Optimise workforce efficiency

## Improve facility utilisation

## Gain insight into operational patterns