



# MAWARID INTELLIGENT IRRIGATION TECHNOLOGY COMPANY PROFILE

2024

009-P-EYE-PRE-MIIT\_VISION-A





PROTECTING THE ENVIRONMENT SHOULD NOT BE SEEN ONLY AS AN ISSUE FOR THE GOVERNMENT AND OFFICIAL AUTHORITIES, BUT AS A CONCERN TO ALL OF US.

**H.H. SHEIKH ZAYED BIN SULTAN AL NAHYAN,  
FOUNDING FATHER OF UNITED ARAB EMIRATES  
(MAY GOD HAVE MERCY UPON HIM)**





# WHO WE ARE

Mawarid Intelligent Irrigation Technology (MIIT) is a leading company in the field of Smart Irrigation System Technology.

We're here to help farmers save water on a global scale while boosting their productivity and yields. Our clients get access to a unique Artificial Intelligence (AI) technology that analyzes plant needs in real-time. Using an advanced algorithm, we process live data from plant, soil and weather sensors, turning it into practical irrigation advice and actionable agronomic insights.

## VISION

- + Digital solutions to help improve every irrigation decision made in the GCC.

## MISSION

- + To improve water use **efficiency** on a regional level in the GCC by **optimizing water usage** and **improving yields**.



# AI DRIVEN IRRIGATION IN THE PALM OF YOUR HAND

UP TO **50%**  
WATER SAVING



UP TO **35%**  
HIGHER YIELDS



REDUCED LABOUR  
**COST**



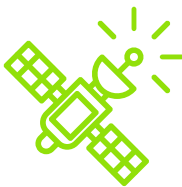
**ARTIFICIAL  
INTELLIGENCE**



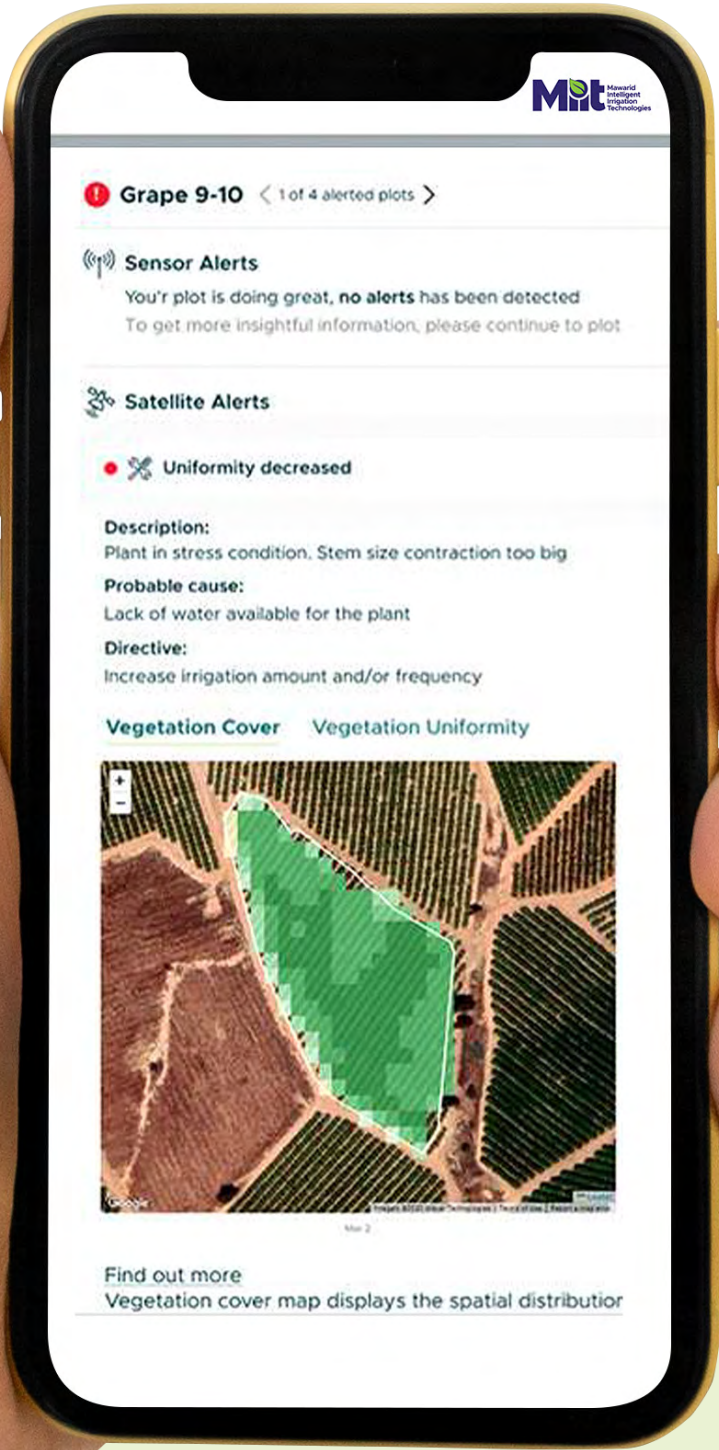
**SMART  
IRRIGATION**



**CONTROL  
CENTER**



**SATELLITE  
IMAGING**

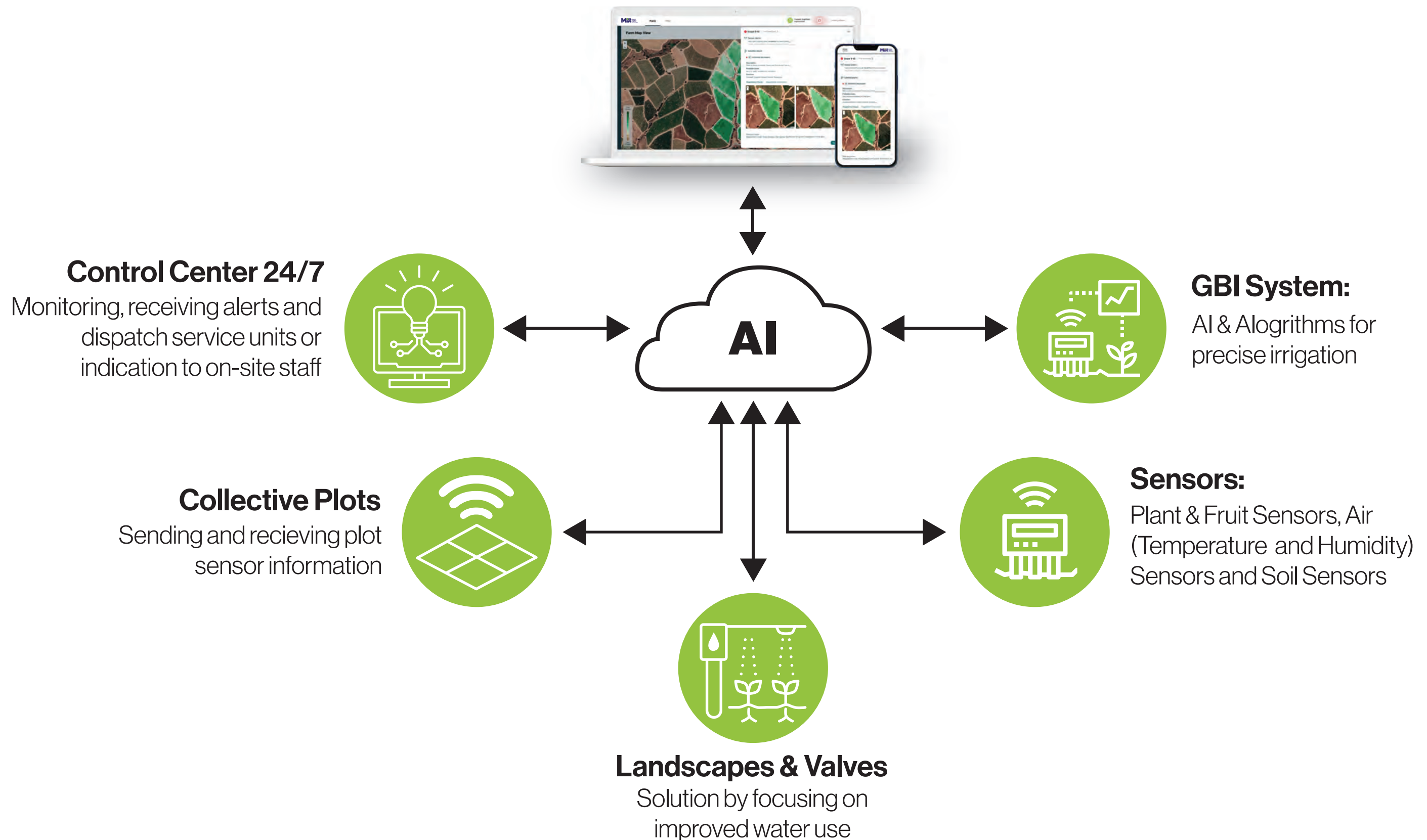


**INNOVATION IN THE PALM  
OF YOUR HANDS**

# HOW DOES IT WORK?

**Growth-Based Irrigation (GBI)** means autonomous Irrigation.

Data from the soil, climate and plant sensors are analyzed by MIIT's cloud-based algorithms to provide smart irrigation decisions.







# HOW IT WORKS

**Artificial Intelligence (AI)** analyzes live data and translates it into irrigation recommendations and actionable insights. It is also able to predict plant behavior by analyzing real life data.



## PLANT GROWTH SENSORS

Plant sensors precise incremental monitoring of fruit growth in three diameter ranges.



## SOIL MOISTURE

Measure a constant dielectric medium using capacitance and frequency domain technology



## CLIMATIC CONDITIONS

Weather stations measure temperature, humidity, radiation, wind, and precipitation

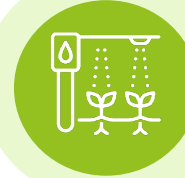


## ARTIFICIAL INTELLIGENCE

Data from the soil, climate, and plant sensors are analyzed by MIT's cloud-based algorithms to provide smart irrigation decisions.

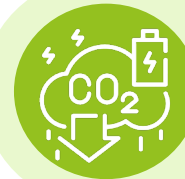


# WHAT IT DOES FOR YOU



## **WATER & COST SAVINGS**

50% water and cost saving at a global scale



## **REDUCED CARBON FOOTPRINT**

Efficient water management leading to reduced carbon footprint



## **IMPROVED YIELD & CROP QUALITY**

30% increased yields and improved quality of crops from the first season



## **REALTIME DATA & CONTROL CENTER**

Controlled plots with real time data  
User-friendly dashboards and weekly preview charts



## **OPERATIONAL COST REDUCTION**

Labor, management and consultancy cost saving, leaks prevention, detection and fixing.



## **EXTREME WEATHER PROTECTION**

Protected crops from extreme weather



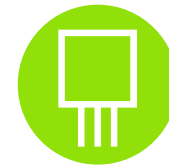


# SENSOR TYPES



## Fruit Sensor

- + Precise incremental LVDT-based sensors
- + It monitors fruit growth
- + Oblong fruits in three diameter ranges



## Dendrometer for Trunk Radius

- + Measures changes in trunk diameter
- + Dendrometers track how plants respond to their environment



## Leaf Temperature Sensor

- + Measures the absolute temperature of a leaf
- + The lightweight stainless steel wire clip holds a high-precision glass encapsulated thermistor



## Soil Sensor

- + Measures a constant dielectric medium using capacitance and frequency domain technology
- + Suitable both for mineral soils (sandy, loamy, and clay soils) and substrates



## Weather Station

- + Measures temperature, Humidity, Radiation, Wind, and Precipitation Sensors
- + Plug-and-log capabilities, simple, and ready to use without feature calibration



# WHAT YOU GET







# MIT's CONTROL CENTER



## MONITORING & CONTROLLING

24/7 real time site and system monitoring service



## AGRICULTURE & IRRIGATION ALERTS

Real time alerts generated from plants, weather or irrigation equipment/system



## DISPATCHING RESPONSE UNITS

Professional teams in mobile units will respond to the system alerts.



## SATELLITE VISUAL MONITORING

Satellite imaging of the sites on a daily base provides an additional layer of monitoring



## CLIENT BASED CENTERS

Upon Client request we can offer access and duplication of data customer site





# PORTFOLIO





## Project Spotlight 1:

# SEH AL SHARQIYA DATE PALM FARM

---

This project had underwent rigorous scientific testing at Seh Al Sharqiya date palm farm, with remarkable results. Water use efficiency was improved by more than **85%**, which lead to higher yields and less water consumption.

### LOCATION

Al Ain, United Arab Emirates

### CLASSIFICATION

Pilot Project

### STATUS

System Installed Successfully  
Monitoring & Maintenance Ongoing

### ROLE

Intelligent Irrigation System Installation

### PARTNER

Mawarid Services Company LLC

### BUDGET

Confidential





## Project Spotlight 2:

# AL SALAMAT FOREST AREA

---

Al Salamat Forest irrigation system was successfully transitioned from a traditional manual system to a complete fully automated Intelligent Irrigation Technologies system in line with advanced precision agriculture.

### LOCATION

Al Ain, United Arab Emirates

### CLASSIFICATION

Pilot Project

### STATUS

System Installed Successfully  
Monitoring & Maintenance Ongoing

### ROLE

Intelligent Irrigation System Installation

### PARTNER

Barari Natural Resources LLC

### BUDGET

Confidential





**Project Spotlight 3:**

**BIDA SAIF  
FOREST & DATE PALM FARM**

The forest and date palm farm integrated the advanced precision agriculture system to allow decreased irrigation water consumption and higher yields. The intelligent Irrigation System installed at Bida Saif has proven effective results on fruit and non fruit trees alike.

**LOCATION**

Madinat Zayed, Abu Dhabi-Western Region,  
United Arab Emirates

**CLASSIFICATION**

Pilot Project

**STATUS**

System Installed Successfully  
Monitoring & Maintenance Ongoing

**ROLE**

Intelligent Irrigation System Installation

**PARTNER**

Barari Natural Resources LLC

**BUDGET**

Confidential



# Thank you.



موارد القابضة للاستثمار  
MAWARID HOLDING INVESTMENT

## Mawarid Intelligent Irrigation Technologies

22nd Floor, Nation Towers, Corniche Road,  
Abu Dhabi, United Arab Emirates  
P.O. Box 59769  
T: +971 2 301 5555  
info@miit.ae

## Contact

### Nabil Shehadie

Senior Manager - Business Development and Strategy  
T: +971 50 128 8096  
nabil.shehadie@mawaridhi.com

### Maya Hawwa

Specialist - Business Development  
T: +971 50 264 8662  
maya.hawwa@mawaridhi.com

