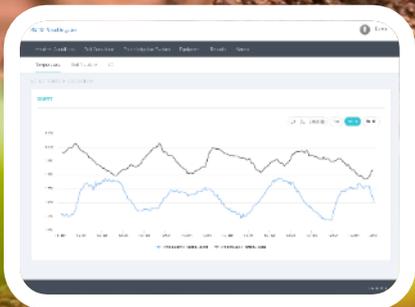


SMART IRRIGATION SYSTEM




METIS

THE METIS SYSTEM

IRRIGATION BASED ON REAL-TIME DATA

TECHNOLOGY

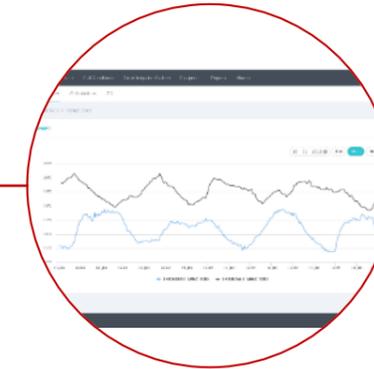
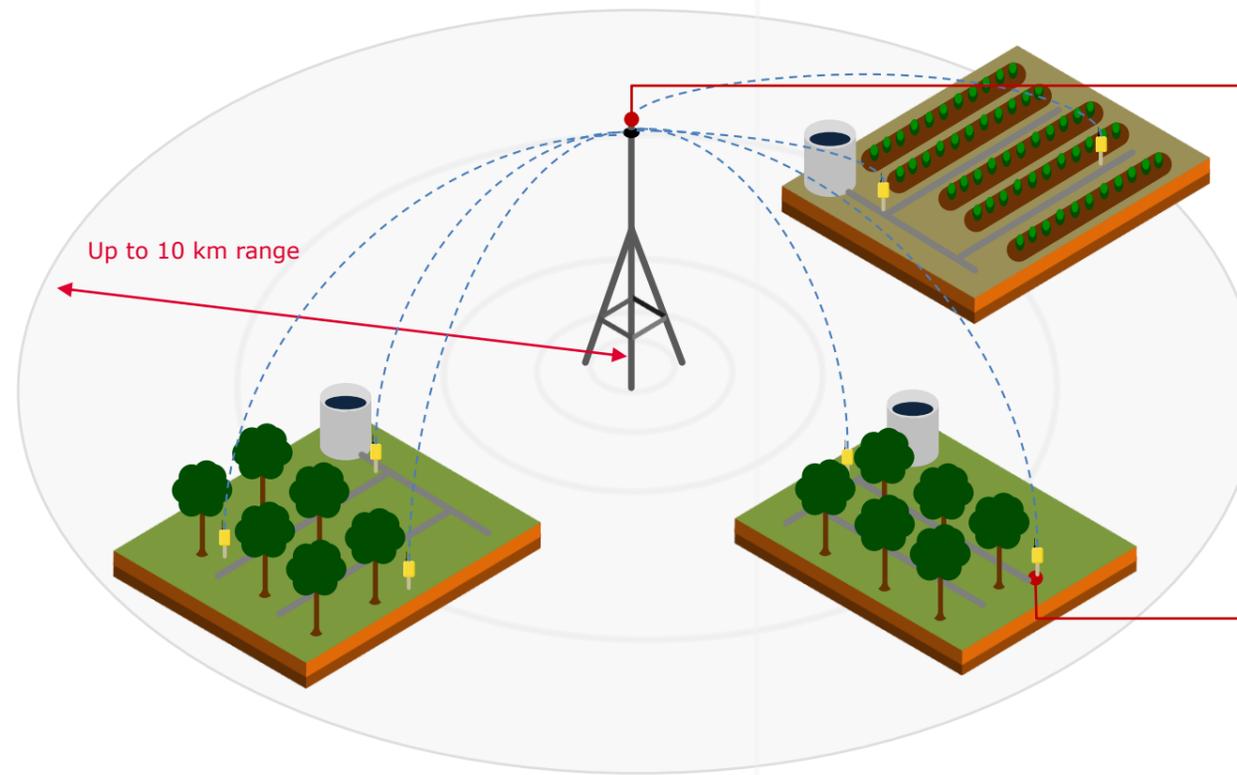
HARDWARE, SOFTWARE, OPTIONS

Irrigation Automation

The METIS Smart Irrigation System is one of the most advanced Irrigation Automation Systems currently available in the market.

METIS collects a variety of sensor data, which is transferred using LoRaWAN technology. It is used by the METIS software for automatic control of the already existing irrigation hardware.

-  **Better crop quality**
-  **Less water consumption**
-  **Less pesticide use**
-  **Less nutrient wash out**
-  **More yield**



GATEWAY DATA COLLECTION

The gateway collects the sensor data from the field. It is then used by cloud-software to create graphs and make irrigation decisions.

Cloud software means the Operating System is accessible from every location in the world where there is internet.

KEEP YOUR HARDWARE

The METIS system can be integrated with the already existing irrigation hardware.

DATA TRANSMITTER

These yellow boxes use the low-energy / long range LoRaWAN technology to transmit sensor data to the central gateway. Multiple sensors can be connected to one box. The boxes are even equipped for control of irrigation hardware.

The battery energy use is very low. A unit can run on a single battery for more than a year



UP TO 10 KM RANGE

One simple gateway using LoRaWAN technology combined with an antenna can cover an area up to 10 kilometers in which sensor data can be collected. This does not use the internet networks and therefore does not require license fee's or subscriptions.



GET ALL THE DATA

A variety of sensors can collect:

- Temperature
- Humidity
- Sunlight
- Rain
- Soil humidity
- EC
- And more...



SOFTWARE INTEGRATION

The METIS system is unique for its software integration. It combines data from:

- Weather stations,
- Sensors,
- Weather forecast, and
- Irrigation regime,

for controlling the irrigation.



SENSORS

We use (a.o.) WaterScout and Watermark Soil Moisture Sensors measuring Soil Moisture Content (VWC%), Soil Moisture Tension (kPa), soil EC and Soil Temperature. It has an optional Air TRH sensor for Frost Alerts early in the season.



LORAWAN

"Longe Range Wide Area Network". LoRaWAN is the network that can be used by IoT (Internet of Things) for remote and unconnected industries. LoRaWAN enables very-long-range transmissions (more than 10 km in rural areas) with low power consumption.



SET THE IRRIGATION REGIME

By using the systems Irrigation Regime You can set upper and lower water budget lines for different growth phases in your crops life cycle. The system can be set to: Manual Mode, Time based, Soil Moisture Based or Fully Automatic.

THE METIS SYSTEM IS DEVELOPED FOR



Crops



Greenhouses



Golfcourses

SALES AND DEVELOPMENT PARTNERS



Sensor specialist and software developer. Vendor of the METIS system.

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Is a worldwide consulting company with knowledge and expertise for companies in agriculture.



Specialized in delivery and installing of irrigation products and services.



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INNOVATION
PRODUCTION
COMPLETION