

# SMART FARM SENSING



## SMART IRRIGATION

Integrated water management becomes inevitable to meet the global freshwater demand for food production. Already one-sixth of the world's population live in severely water-constrained agricultural areas. And this will increase due to climate change and the growing population and need for food, as agriculture is responsible for 70% of total global freshwater withdrawal.

Our turn-key smart irrigation solutions, enabled by AgriIOT <https://agriot.app/>, our geospatial ag data analytics and decision-making management platform, offer you a future proof solution for sustainable agriculture and water management, based on industry standard wireless IoT technology.





# SMART IRRIGATION FOR INTEGRATED IRRIGATION MANAGEMENT

We understand that each farm has its unique irrigation system. So, our smart AgrIoT irrigation concept is based on modular and scalable approach based on “irrigation zones”. An irrigation zone is fed by a line or pipe with a smart valve and smart flow meter, controlling for example multiple bubblers, sprinklers or subsoil irrigation systems.

Configuration of your irrigation is simple. The irrigation region is either fed volume-based, by a pre-set daily start time and volume, or time-based, by a pre-set daily start and stop time. An “irrigation schedule” determines a pre-set period you run this volume-based or time-based irrigation per weekday. You can concatenate multiple irrigation schedules in one scenario or repeat one schedule throughout the year.

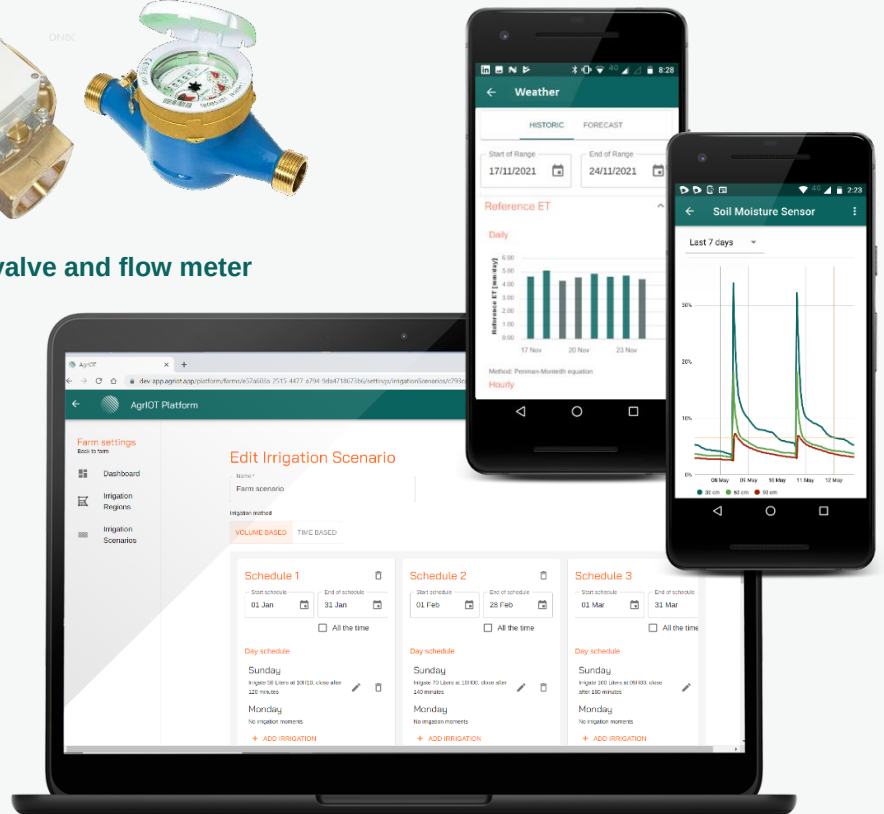
Using our soil moisture monitoring and weather sensors, the daily irrigation can be adapted to current weather and evapotranspiration (ET) data and localized soil moisture data, to finetune and optimize the water use to exactly what your crop needs during that day or week.



Smart valve and flow meter



Weather station and soil moisture sensors



AgrIoT irrigation dashboard and soil moisture and weather apps

## SMART FARM SENSING

Smart Farm Sensing provides products, services and solutions to the agriculture sector based on intelligent sensor data, remote sensing and geospatial information.

*We bring together sensor, satellite, and field data to improve sustainability and climate resilience of agriculture and landscaping.*

**SMART FARM SENSING B.V.**

[www.smartfarmsensing.com](http://www.smartfarmsensing.com)  
[info@smartfarmsensing.com](mailto:info@smartfarmsensing.com)

ESA BIC – Suite 140  
Kapteynstraat 1  
2201 BB Noordwijk  
The Netherlands

