

Service ID

S00318

Location

At user's premises



Real-Time Data Integration for Smart Irrigation Systems

Provider service

HISPATEC

Link to content

<https://agrifoodtef.eu/services/real-time-data-integration-smart-irrigation-systems>

Type of Sector

Arable farming, Greenhouse, Horticulture, Tree Crops, Viticulture

Accepted type of products

Data

Type of service

Data analysis

Description

This experimental service focuses on establishing a real-time data connection for irrigation systems, enabling precise adjustments in water management based on soil moisture levels, weather forecast, and plant needs. The service offers real-time analysis and decision-making tools, enhancing irrigation system efficiency and ensuring optimal resource utilization. It includes comprehensive testing and evaluations to ensure smooth integration and optimal performance under various conditions.

How can the service help you

By integrating real-time data into irrigation systems, this service helps companies experiment with automated agricultural technology for decision-making, reducing water waste and improving crop yield. By obtaining information on soil moisture and weather conditions, it allows dynamic adjustments to irrigation schedules. As a result, these companies can observe how they can improve both resource management and crop productivity.

How the service will be delivered

The service is delivered through a web-based platform that collects real-time data from sensors deployed in the field. Data on soil moisture, weather conditions, and irrigation schedules is continuously processed, providing real-time alerts and adjustments. Clients will receive regular performance reports and optimisation suggestions based on the data. The customer must provide access to their irrigation systems and relevant data.

Service customisation

Customisation options include configuring irrigation schedules based on crop type, soil conditions, and local climate. Clients can also integrate additional data sources, such as weather stations, to further optimise the system's performance.