Service ID S00328

Location Spain

Testing of Integration with Advanced Sensors for Agricultural Monitoring

Provider service

HISPATEC

Link to content

https://agrifoodtef.eu/services/testing-integration-advanced-sensors-agricultural-monitoring

Type of Sector

Arable farming, Greenhouse, Horticulture, Tree Crops, Viticulture

Accepted type of products

Data, Physical system

Type of service

Provision of datasets, Test execution, Test setup

Description

This service provides the integration of advanced sensors into agricultural operations, enabling real-time monitoring of critical environmental factors such as soil moisture, temperature, and crop growth. By collecting accurate, real-time data, the service allows farmers and agribusinesses to make informed decisions about irrigation, fertilisation, and other management tasks. The precise data helps optimise resource use and improve crop yields while reducing costs and environmental impact.

How can the service help you

The service helps clients monitor their fields more effectively by providing continuous, real-time data on key agricultural parameters. With advanced sensors, clients can make better-informed decisions, ensuring optimal growing conditions, improving resource efficiency, and reducing waste. This service allows for greater control over the agricultural process, leading to higher yields and better crop health.

How the service will be delivered

Customisation options include selecting specific sensors to monitor particular parameters, such as soil pH, moisture levels, or crop growth stages. The service can also be tailored to integrate with existing farm management software or platforms, ensuring seamless data flow and compatibility with current operations.

Service customisation

The service involves the installation of advanced sensors in the client's fields, as well as integration with data analytics platforms to process and visualise the data. The sensors continuously collect data on soil conditions, humidity, temperature, and crop growth, which is then transmitted to a centralized platform. Clients will receive access to real-time dashboards and reports, enabling them to monitor their fields remotely and take corrective actions when necessary.