Service ID   S00118

Location   Italy

Testing of sensor technology for irrigation scheduling

Provider service

Fondazione Edmund Mach (FEM)

Link to content

https://agrifoodtef.eu/catalogue-of-services/testing-sensor-technology-irrigation-scheduling

Type of Sector

Tree Crops, Viticulture

Accepted type of products

Data, Physical system

Type of service

Collection of test data, Data analysis, Performance evaluation, Provision of datasets, Test execution

Description

Field testing of IoT prototypes to monitor soil features and comparison to research-grade sensors FEM will support companies developing IoT solutions, e.g., irrigation scheduling solutions, either by collecting ground-truth data or by comparing the results of the algorithm with their own models. The areas in which FEM is active concern irrigation scheduling, frost alerts, phenology, crop water stress identification, etc. These activities will be supported by the FEM Campus facilities, research-grade weather station data, high-performance computing machines, and LoRaWAN technology for data transmission.

How can the service help you

FEM researchers and technologists have years of experience in several fields and can support customers in both the collection and modelling of field data. Customers will be supported in the parameterisation of irrigation models, which requires the study of soil type, collection of field and plant water status data, and, finally, modelling activities.

How the service will be delivered

Requirements and feasibility of services will be assessed individually.

Service customisation

Field activities at FEM's experimental facilities will be concentrated during the growing season (April-October). Data, models, and reports will be provided digitally.