

Service ID S00120

Location Italy



Testing of proximal mobile field sensing technology

Provider service

Fondazione Edmund Mach (FEM)

Link to content

<https://agrifoodtef.eu/catalogue-of-services/testing-proximal-mobile-field-sensing-technology>

Type of Sector

Tree Crops, Viticulture

Accepted type of products

Data, Physical system, Software or AI model

Type of service

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

Description

Field testing of proximal sensing technologies onboard mobile systems (i.e., UAVs and robots) for the assessment of plant physiology traits. FEM will support the assessment and validation of proximal sensing solutions by hosting field trials at the physical facilities available within the FEM Campus (i.e., smart vineyard, micro-vinification cellar, grapevine collection, and fish farm) and supporting the activities by using equipment to collect ground-truth data. As an example, FEM has developed and has available in the field tools used to identify water stress situations, based on the measurement of canopy temperature.

How can the service help you

The availability of ground-truth data is crucial for the calibration of proximal sensing-based solutions. In addition, the expertise gained by FEM researchers over the years and the already available datasets will also be useful to improve the level of knowledge of the customers.

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 carried out mainly during the growing season. Data, models, and reports will be provided digitally.