Service ID

S0113

Location

Italy

Collection of test data during physical testing

Provider service

Provider name

Link to content

https://agrifoodtef.eu/services/collection-test-data-during-physical-testing

Type of Sector

Arable farming, Food processing, Greenhouse, Horticulture, Livestock farming, Tree Crops, Viticulture

Accepted type of products

Design / Documentation

Type of service

Collection of test data

Description

Through this service, we provide specialised technical systems (both hardware and software) and expertise for collecting relevant data during testing.The scope of the data collected can vary, encompassing information generated by the agrifoodTEF technical infrastructure (e.g., through the installation of IoT sensors), data from the system under test, and ground truth data for system evaluation. If needed, this service can facilitate the interconnection between agrifoodTEF's data collection systems and the customer's systems.In addition to the raw data collected, we will supply customers with comprehensive documentation detailing the logged features, conditions of the testing environment at the time of testing, and any parameter values, variation ranges, and specifics necessary for reproducibility.When required, data collection and documentation activities may involve field experts such as engineers and agronomists.Please note that annotation and labeling of collected data, if necessary, can be provided through service S00115.

How can the service help you

Conducting tests on a physical system (such as a machine) is significantly more effective for defining its performance and understanding its limitations when quantitative data is collected for subsequent analysis and interpretation. Collecting this data requires expertise in determining what data to gather, how to collect it, and how to prepare it for future use.

How the service will be delivered

The duration of this service averages three weeks for preparation, in addition to the time required for actual data collection, which occurs while the customer's system undergoes testing to produce the data.

Service customisation

Example Service: The customer requires data to train a computer vision model for recognising Matricaria and bean plants, as well as for detecting the emergence of other spontaneous weed species. We collect the necessary data using a teleoperated robot within cultivated bean plant rows infested with Matricaria chamomilla, while also including wild mustard plants as confounding species.