Service ID

Location   Spain

UAV: Collection of test data during physical testing

Provider service

University of Cordoba (UCO)

Link to content

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

Type of Sector

Arable farming, Tree Crops

Accepted type of products

Data, Design / Documentation

Type of service

Data analysis, Provision of datasets, Test design, Test setup

Description

This service facilitates the collection of test data during physical UAV-based testing, including data generated by the system under test, UAV sensors (e.g., hyperspectral, multispectral, thermal, and RGB), and ground truth data. It also ensures detailed documentation to support reproducibility, such as descriptions of logged features. This service is essential for clients who need precise and well-documented data for AI model training, validation, and robust agricultural research.

How can the service help you

The service enables agricultural technology developers and researchers to gather comprehensive datasets essential for the validation and improvement of AI-driven tools. By offering well-documented data that supports reproducibility, the service addresses critical needs for accurate, ground-truth-verified data in agricultural applications, aiding in model testing and development.

How the service will be delivered

Customisation options include the choice of sensor types for specific data collection needs (e.g., RGB, hyperspectral), as well as documentation requirements. Any regulatory constraints related to UAV use are managed with clients prior to testing.

Service customisation

The service is performed on-site in Spain, using UAVs equipped with various sensors to capture high-quality data. Outputs include curated datasets, ground truth data, and comprehensive documentation. Customers should prepare the systems for testing and coordinate any specific data requirements beforehand.