

**Service ID** S00273

**Location** Spain



## Testing and Validating Crop Variability with Remote Sensing and Predicti

### Provider service

University of Cordoba (UCO)

### Link to content

<https://agrifoodtef.eu/catalogue-of-services/testing-and-validating-crop-variability-remote-sensing-and-predictive-models>

### Type of Sector

Arable farming, 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, Desk assessment, Test design, Test execution, Test setup

### Description

This service measures spatial variability in crops and plots through nearby and remote sensors, including electromagnetic probes, yield monitors, drones, and satellites. The data collected allows for the generation of zoning information and the validation of predictive models and digital agriculture systems, such as variable input distribution tools. By integrating environmental data, the service provides essential insights to improve decision support systems and optimize resource allocation in precision agriculture.

## **How can the service help you**

The service enables agricultural professionals to gain a detailed understanding of crop variability, enhancing their ability to test and validate predictive monitoring software. With accurate variability measurements, users can make informed decisions on input distribution and sample collection, contributing to optimised crop management and efficient use of resources.

## **How the service will be delivered**

Customisation includes selecting sensor types and specific parameters for variability assessment. Clients may also request additional environmental data integration or focus on particular crop types or field zones.

## **Service customisation**

The service is conducted on-site in Spain, with variability measurements collected from various sensors deployed in agricultural plots. Deliverables include detailed zoning maps, variability data sets, and analysis reports. Clients should define specific parameters and have predictive software ready for testing, if applicable.