

Service ID S00240

Location Spain



Satellite-based models for precision agriculture

Provider service

University of Cordoba

Link to content

<https://agrifoodtef.eu/services/satellite-based-models-precision-agriculture>

Type of Sector

Arable farming

Accepted type of products

Data, Design / Documentation

Type of service

Collection of test data, Data analysis, Provision of datasets, Test design, Test execution, Test setup

Description

This service provides testing and experimentation support for satellite-based models aimed at yield estimation and pre-harvest assessments. By leveraging remote sensing data, clients can develop and validate models that predict agricultural outputs, enhancing decision-making processes in arable farming. This service is ideal for clients seeking to integrate precision agriculture techniques using satellite imagery to optimise crop management and planning.

How can the service help you

The service helps agricultural technology developers create accurate yield estimation models based on satellite imagery, supporting proactive decision-making in crop management. By validating model performance, clients gain insights into pre-harvest conditions, helping them better allocate resources and improve yield predictions.

How the service will be delivered

Customisable options include the selection of specific satellite data types and the frequency of data collection. Clients can also request specific pre-harvest metrics for evaluation. Satellite data availability may vary depending on climatic or regional conditions.

Service customisation

The service is provided in Spain, where satellite data is used to test and validate yield estimation models. Outputs include collected satellite data, performance metrics, and a detailed report of model accuracy. Customers should have predefined model objectives and metrics for yield estimation to ensure alignment with the service.