

**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**

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.

**Service customisation**

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.