

**Service ID** S00039

**Location** Remote



## Testing of plant detection

### Provider service

Josephinum Research (JR)

### Link to content

<https://agrifoodtef.eu/catalogue-of-services/testing-plant-detection>

### Type of Sector

Arable farming, Horticulture, Tree Crops

### Accepted type of products

Software or AI model

### Type of service

### Description

Our digital test helps you evaluate how well your model identifies different types of plants. Your model can be delivered in a docker container or the inference results are collected in real time from your device in the field. We focus on key performance metrics like accuracy, precision, recall, Intersection over Union (IoU), and F1 score to give you a clear picture of your model's effectiveness. Crucial to this process is the ground truth data, which can be either specially prepared for this test or sourced from an existing benchmark dataset.

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

This testing gives you clear, objective insights into your plant detection system's performance and helps identify any potential issues.

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

The test can be customised at various levels. One of the main parameters are the type of plant to be recognized by your model. Another variable parameter is the vision task you are solving with the model, e.g. Object Detection, Segmentation, etc..

## **Service customisation**

The test can be done remotely via a prepared docker container. The test itself will take up to a month to execute, depending on the images delivered, the plants in the images and the growth state of those plants. After the test, you will receive a report on detection quality in terms of metrics like accuracy, precision, recall, Intersection over Union (IoU), and F1 score. Seasonally, the test is possible the whole year, preferred in the winter months.