

**Service ID**

S00269

**Location**

Spain

## **Assessment of automation and robotics technologies for machinery in speciality crops**

**Provider service**

University of Cordoba

**Link to content**<https://agrifoodtef.eu/services/assessment-automation-and-robotics-technologies-machinery-speciality-crops>**Type of Sector**

Tree Crops, Viticulture

**Accepted type of products**

Physical system

**Type of service**

Certification, Collection of test data, Data analysis, Desk assessment, Performance evaluation, Test design, Test setup

**Description**

This service provides an in-depth evaluation of automation and robotics technologies integrated into machinery for speciality crop operations, including tillage, cover crop management, pesticide application, and harvesting. Through field testing, the service assesses automated systems, robotic vehicles, and their interoperability with other machinery. It is designed to help clients validate the functionality, efficiency, and sustainability of advanced machinery technologies used in precision agriculture for speciality crops.

**How can the service help you**

This service enables manufacturers and users of agricultural machinery to verify the performance of automated and robotic technologies in real-world conditions, enhancing efficiency in speciality crop cultivation. By supporting the integration and assessment of automation, the service promotes sustainable practices in crop management, benefiting clients focused on precision agriculture.

**How the service will be delivered**

The service is delivered on-site in Spain, where the automated systems and robotics are tested in field conditions relevant to tree crops and viticulture. Deliverables include performance evaluations, data analyses, and certification of automation systems. Clients are advised to prepare machinery and define specific operational parameters for testing.

**Service customisation**

Customisation options include selecting specific operations for testing (e.g., pesticide application or harvesting) and integrating sensors or remote diagnostics. The service can be tailored to meet unique crop management needs in tree crops.