Assessment of automation and robotics technologies for machinery in sp

Provider service

Universidad de Córdoba

Link to content

https://www.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

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.

Service customisation

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.