Service ID

S00272

Location

Spain

Testing and evaluation of variable rate distribution equipment

Provider service

University of Cordoba

Link to content

https://agrifoodtef.eu/services/testing-and-evaluation-variable-rate-distribution-equipment

Type of Sector

Arable farming

Accepted type of products

Physical system

Type of service

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

Description

This service focuses on the evaluation and testing of variable input distribution technologies, such as seeders and fertiliser spreaders, at the Rabanales Experimental Farm. Through field tests, the service measures variability across plots and monitors crop yield with yield monitors. Satellite data complements these assessments, enabling the creation of zoning and crop prescription maps. These resources help optimise the operation of precision agriculture equipment and improve input efficiency under various ISO standards.

How can the service help you

By testing and validating equipment for variable rate distribution, this service assists agricultural professionals in optimising input usage, enhancing profitability, and reducing environmental impact. Precision application of seeds and fertilisers supports sustainable practices and allows for adaptive strategies in agriculture, addressing both economic and ecological needs.

How the service will be delivered

The service is conducted at the Rabanales Experimental Farm in Spain, where variable-rate equipment is tested on multiple plots with monitoring through yield sensors and satellite data. Deliverables include zoning maps, crop prescription maps, and comprehensive performance evaluations. Clients should have equipment ready for testing and provide specific input criteria.

Service customisation

Customisable options include selecting specific plot conditions or target parameters. Clients may also request specific ISO standards for evaluation or additional monitoring metrics to meet their precision agriculture goals.