

Service ID S00276

Location Spain



Testing and validation of precision livestock farming solutions for grazin

Provider service

University of Cordoba (UCO)

Link to content

<https://agrifoodtef.eu/catalogue-of-services/testing-and-validation-precision-livestock-farming-solutions-grazing-animals>

Type of Sector

Livestock farming

Accepted type of products

Design / Documentation, Physical system, Software or AI model

Type of service

Collection of test data, Conformity assessment, Performance evaluation, Provision of datasets, Test design, Test execution, T

Description

This service supports the testing and validation of precision livestock management tools designed for grazing animals such as horses, cattle, and sheep. Conducted on collaborating research farms, the service evaluates hardware, firmware, and software components to confirm they meet manufacturer specifications. It includes direct observation of animal behaviour and performance, along with comparative analyses against similar tools. Clients receive actionable recommendations to address any detected limitations, enhancing the tool's functionality and market viability in precision livestock farming.

How can the service help you

This service enables livestock management tool developers to validate their solutions in real-world conditions, ensuring accuracy in tracking, behaviour analysis, and decision support for grazing livestock. It provides a comprehensive assessment to help clients optimise their products for market readiness and functional reliability.

How the service will be delivered

Customisation options include selection of animal species, specific tracking technologies (e.g., GNSS, Bluetooth Low Energy), and behavioural parameters. Additional analysis can be tailored for particular livestock management goals.

Service customisation

Testing takes place on partner farms in Spain, where precision tools are installed on livestock for in-field validation. Deliverables include performance reports, behaviour analysis, and recommendations for improvement. Clients should prepare the tools for testing and specify any performance criteria or metrics.