Evaluation of AI-based optimal pesticide dosage in tree crops

Provider service

Universitat de Lleida (UdL)

Link to content

https://www.agrifoodtef.eu/services/evaluation-ai-based-optimal-pesticide-dosage-tree-crops

Type of Sector

Tree Crops

Accepted type of products

Physical system

Type of service

Performance evaluation

Description

Evaluation of the performance of systems to optimise the dosage of pesticides based on artificial intelligence for tree crops. The service includes comparing the optimised treatment performance versus the standard procedure, measuring the pesticide and economic savings, assessing drift reduction to the environment, and improvements in environmental and biodiversity impact or the CO_2 footprint of the treatment.

How can the service help you

This service provides help to ensure the effectiveness of pesticide dosage in tree crops by evaluating AI-based systems, leading to pesticide and economic savings and reduced environmental impact.

How the service will be delivered

The service can be customised for your specific product.

Service customisation

The evaluation will be conducted on tree crop fields, either at our partner farms or at your location, depending on availability. The service will take approximately one to two weeks to execute, allowing for necessary treatments and monitoring. Customers will receive a detailed report comparing the optimised pesticide dosage performance against standard procedures, including metrics on pesticide savings, economic benefits, drift reduction, and improvements in environmental impact. Additionally, metadata regarding weather conditions and treatment parameters will be provided. Customers will need to supply information on their current pesticide application practices and any specific requirements for the evaluation. Seasonal availability for this service is typically between March and October, depending on the crop type and treatment schedule.