Service ID S00343

Location Spain

Validation of accuracy in tree volume calculation for biomass estimation

Provider service

Universidad de Córdoba

Link to content

https://www.agrifoodtef.eu/services/validation-accuracy-tree-volume-calculation-biomass-estimation

Type of Sector

Tree Crops

Accepted type of products

Data, Physical system, Software or AI model

Type of service

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

Description

Validation of image recognition algorithms used to calculate tree volume as a basis for biomass estimation. Field tests will be conducted. The algorithm's results will be compared with physical measurements to verify reliability and accuracy in different operational contexts.

How can the service help you

This service ensures the reliability and accuracy of algorithms used for tree volume calculation in biomass estimation. By validating results against physical measurements, it provides confidence in algorithm performance across different contexts. This helps improve decision-making and operational outcomes in forestry and biomass management.

How the service will be delivered

The service can be customised to focus on specific tree species, operational contexts, or algorithm types. Clients can choose to send data for analysis or participate in field testing sessions, ensuring the validation process aligns with their unique requirements and objectives.

Service customisation

The service will be delivered through field tests and comparisons between algorithm outputs and physical measurements. Companies can provide data for evaluation, or joint sessions can be conducted to validate the algorithms collaboratively in specific operational scenarios.