

Service ID S00286



Location Poland, Remote

Testing of plant health assessment tools for high-value crops

Provider service

Łukasiewicz - Poznański Instytut Technologiczny

Link to content

<https://agrifoodtef.eu/services/testing-plant-health-assessment-tools-high-value-crops>

Type of Sector

Arable farming, Greenhouse, Horticulture, Tree Crops, Viticulture

Accepted type of products

Data, Design / Documentation, Physical system, Software or AI model

Type of service

AI model training, Data analysis, Test design, Test execution, Test setup

Description

The service is intended to provide the client with technological and intellectual support for the improvement of plant health assessment tools for high-value crops. Support will be provided through testing of optical technology solutions, image analysis pipelines, and AI systems. The proposed testing and analysis will provide a wealth of feedback on the relevant tools and the quality and utility of the crop health data they collect. It may lead to changes in components, tools, and the choice of software and algorithms and general suggestions to ensure safe and effective work with sensitive crops.

How can the service help you

Our service provides expert assistance in the application of AI technology based on machine learning methods to assess plant health in high-value crops, using the example of grapevines, which can provide information that allows future conservation measures to be targeted even on individual plants without having to be carried out on the entire plantation. Such measures lead to the optimisation of cultivation costs. There is also an environmental dimension, as it leads to a reduction in the environmental load through, for example, the spot application of lower doses of active chemicals.

How the service will be delivered

Our service is based on a structured process of thorough evaluation of an AI-integrated system:

- You provide a functional prototype or research model of your solution, along with any previous analysis of its performance, to help identify critical capabilities of its operation.

Service customisation

Our service offers customised performance, quality of work, and reliability testing for AI-based systems. We offer long-term testing focused on specific components or AI integration, with the ability to expand measurement equipment and apply advanced data analysis techniques. Test reports are personalised and can be complemented with workshops and training for your team. We require a fully functional prototype and complete technical documentation. All information is treated confidentially, with the option to sign a Non-Disclosure Agreement (NDA). Please be aware of the risk of prototype damage during testing. If the tests need to comply with specific industry standards or regulations, kindly inform us in advance.