Service ID S00197

Location   At user's premises, Poland, l

Testing of AI solutions for crop protection

Provider service

Lukasiewicz Poznanski Instytut Technologiczny (L-PIT)

Link to content

https://agrifoodtef.eu/catalogue-of-services/testing-ai-solutions-crop-protection

Type of Sector

Arable farming, Food processing, Greenhouse, Horticulture, Tree Crops, Viticulture

Accepted type of products

Software or AI model

Type of service

AI model training, Collection of test data, Data augmentation, Performance evaluation, Provision of datasets

Description

Provide support for improving existing models/algorithms/software through on-field data acquisition and online learning, e.g., for crop protection against agents and pests. Customers equipped with AI-based solutions will receive support and knowledge transfer enabling solution improvement. The customer will receive access to the physical infrastructure for iterative solution tests and improvements.

How can the service help you

With this service we can address specific needs for the improvement of existing AI solutions arising in application to the demanding real-world problems of specific crop protection (e.g., assessment of vegetation process or potential pest infection, application of adequate preventive measures) through acquisition of domain-specific datasets and using them to train or fine-tune existing AI models, as well as providing access to the infrastructure allowing us to test the specific developed solutions.

How the service will be delivered

The specific range and details of possible actions performed within this service can be customised flexibly depending on the technology involved and according to the customer needs.

Service customisation

The duration and details of the service delivery can be adjusted according to the characteristics of a problem at hand and specific customer needs. The service can be delivered at any time suitable in the context of the processes involved, e.g., vegetation periods. It might be executed remotely, when involving only improvement of AI models not requiring physical work, or on-site when involving on-field data acquisition or testing using physical infrastructure. The customer will receive the improved solution together with detailed documentation and a report. The customer needs to provide the solution to be improved.