

**Service ID** S00301



**Location** Netherlands, Remote

## **Annotated datasets for the validation of AI algorithms on crops, weeds, c**

### **Provider service**

Wageningen Research - WR

### **Link to content**

<https://agrifoodtef.eu/services/annotated-datasets-validation-ai-algorithms-crops-weeds-diseases-and-pests>

### **Type of Sector**

Arable farming, Horticulture, Tree Crops

### **Accepted type of products**

Data, Software or AI model

### **Type of service**

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

### **Description**

In order to train, test, and validate AI applications, annotated datasets are needed. Wageningen Research - Field Crops can provide FAIR datasets consisting of high-quality raw images, annotations, and metadata on crops, weeds, diseases, and pests. At the moment a dataset on volunteer potato in sugar beet and onion is available. Let us know in which other datasets you are interested.

## **How can the service help you**

The customer can use the data to validate an AI algorithm for different regions in the Netherlands. To support the annotation process, we are not limited to the Netherlands.

## **How the service will be delivered**

The AI algorithm has to be imported in ONNX format. There are different types of annotations used in AI. If the customer sees potential datasets, but not with the right annotation format, contact us to discuss possibilities to improve the dataset according to the customer needs.

## **Service customisation**

The customer can search in a portal if datasets are available that are compatible with the AI algorithm. If there are no datasets available, contact us to discuss possibilities for acquiring new datasets for the validation purpose. If there are datasets available, the customer can deploy the algorithm, and performance metrics are calculated. The customer also has the option to buy data to improve the AI algorithm. Beforehand an indicator is given on the expected improvement.