Service ID S00159

Location   France

Agronomic dataset generation through optical sensors

Provider service

ARVALIS

Link to content

https://agrifoodtef.eu/catalogue-of-services/agronomic-dataset-generation-through-optical-sensors

Type of Sector

Arable farming

Accepted type of products

Other

Type of service

Collection of test data, Data analysis, Provision of datasets

Description

We offer a specialised service focused on the acquisition and interpretation of image datasets captured through optical sensors. These datasets provide valuable agronomic indicators such as Leaf Area Index (LAI), biomass, plant count, and more. Key insights that reflect crop health and growth patterns could be generated by analysing these data. These image-based datasets are crucial for training algorithms that predict various agronomic parameters, such as plant growth, height, yield potential, and other important metrics. The measurements of these indicators are carried out on several sites presenting a variety of agro-climatic conditions and allowing the collection of a representative and reliable dataset.

How can the service help you

This service provides customers with accurate agronomic data that enhances the predictive capabilities of their technology. The diversity of agro-climatic conditions ensures that the data they receive is robust, representative, and reliable, helping them optimise their technology's performance and deliver better insights to end-users.

How the service will be delivered

This service is available on cereals, potatoes and flax.

Service customisation

According to customer-specific needs and requested metrics, we define a tailored protocol for measuring the required agronomic traits. This includes selecting the sites for experimentation, determining the appropriate growth stages for data acquisition, and identifying the sensors to be used. Once the data is collected, a validation phase is conducted to ensure its accuracy and reliability. Only after this thorough validation is the data passed on to the customer so that they receive precise insights tailored to the requirements of their technology.