Service ID **S00282**

Location At user's premises, Poland

Provision of real-time data streams

Provider service

Lukasiewicz Poznanski Instytut Technologiczny (L-PIT)

Link to content

https://agrifoodtef.eu/catalogue-of-services/provision-real-time-data-streams

Type of Sector

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

Accepted type of products

Design / Documentation, Other

Type of service

Collection of test data, Provision of datasets

Description

The service provides access to data streams collected from equipment tested by other services or using specially installed sensor or camera arrays in specific test environments. It includes the provision of data streams from sensors and cameras installed to meet specific customer needs in agreed areas and tailored to work in these specific locations. Such areas are, for example, fields, orchards, vineyards, forests, or specific locations such as farms, barns, or warehouses. Furthermore, the service includes access to corrections from local RTK stations and meteorological station data. In this way, it provides comprehensive and reliable data access support for a variety of customer requirements.

How can the service help you

This service provides the security to access data streams collected by the device under test from other services or using sensors or cameras installed in a dedicated test environment.

The service provider also provides for obtaining the ability to subscribe to real-time data streams from on-farm-generated data (e.g., for weed and disease detection by UAVs, video streams on pig behaviour, spray boom images, etc.). As part of it, we offer the provision of data streams from sensors and cameras installed to meet specific customer needs in agreed areas and tailored to work in these specific locations on the farm and on the crops grown. The service ensures the availability of data connections at the required speed or provides areas with access to the 5G network for the duration of the service.

In addition, it offers storage space for the temporary archiving of collected data in cases where adequate connectivity is not available and the availability of data corrections from RTK stations, allowing, for example, the precise guidance of cultivation or conservation measures by autonomous vehicles. The service provides the assurance that the relocated systems are not only efficient and robust but also resilient to various environmental and operational challenges, supporting sustainability in the deployment of the technologies they implement.

How the service will be delivered

As part of the service, we offer the development of a methodology for the course of action in line with the guidelines of commonly applicable documents (standards, directives, etc.). Based on this, we will plan and carry out actions allowing the service user to gain full access to the data stream collected by the device, which is tested by other services or by using sensors or cameras installed specifically for this purpose in a specific environment.

As part of the service, it is also possible to provide the possibility of obtaining subscriptions to real-time data streams from data generated on the farm (e.g., for weed and disease detection by the UAV, video streams on pig behaviour, spray boom images, etc.). The service provider offers the possibility to provide data streams from sensors and cameras mounted in areas agreed upon with the clients and tailored to work in these specific locations on the farm and on the crops grown. In addition, we offer the possibility of obtaining disc space for temporary archiving of the collected data in cases where adequate connectivity is not available and the availability of data corrections from RTK stations allows, for example, precise guidance of cultivation or conservation measures by autonomous vehicles. 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 endurance tests.

Service customisation

Our service to provide access to data streams is based on a structured workflow. The time, duration, and other details of the service delivery can be adjusted according to the characteristics of a problem at hand and specific customer needs. The customer needs to provide access to the devices recording the data to be streamed. The process is flexible and tailored to specific needs, ensuring professionalism and commitment at every stage of our collaboration. As a result, the customer will obtain the data stream as well as a detailed report from the work conducted.