Service ID

S00250

Location

At user's premises, Spain

Generation of datasets using network-connected sensors

Provider service

GRADIANT

Link to content

https://agrifoodtef.eu/services/generation-datasets-using-network-connected-sensors

Type of Sector

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

Accepted type of products

Other

Type of service

Provision of datasets

Description

This service focuses on the collection and processing of data from sensors connected to a 5G network. Leveraging the high-speed, low-latency capabilities of 5G, it facilitates efficient data transmission, ensuring comprehensive coverage and timely data collection across various environments. The collection and processing methods yield high-quality datasets that are essential for training AI models and developing decision-making algorithms, supporting diverse applications. Additionally, the scalable environment developed allows for adaptability across different sensors, use cases, locations, and even communication technologies, like LoRa.

How can the service help you

The service addresses key customer needs by providing reliable and actionable data for informed decision-making and AI training. Before the service, customers often struggled with inefficient data collection methods and lacked comprehensive insights into their systems. After implementing the service, they gain access to high-quality datasets collected through a streamlined process utilising communication network technologies, like 5G.

How the service will be delivered

The service has no restrictions to be deployed, considering that the network of sensors will be available 24/7 at CIAM's facilities. The only exception is if the data extraction is tied to the vegetation period of a crop or the presence of an animal. The customer only needs to provide the requirements regarding the type and volume of the data gathered, which will determine the duration of the service execution. At the end, the customer will receive the agreed-upon sensor datasets in digital format.

Service customisation

The service is primarily focused on 5G network-connected sensors; however, the generation of datasets can be easily adapted to other types of networks such as LoRa.