

**Service ID** S00253



**Location** At user's premises, Spain

## Collection of datasets of images and sensor data using UAV

### Provider service

GRADIANT

### Link to content

<https://agrifoodtef.eu/catalogue-of-services/collection-datasets-images-and-sensor-data-using-uav>

### Type of Sector

Arable farming, Horticulture, Livestock farming, Tree Crops, Viticulture

### Accepted type of products

Other

### Type of service

Collection of test data, Provision of datasets

### Description

The service offers automated drone deployments to efficiently gather images and sensor data, creating comprehensive multi-spectral datasets. The drones operate based on agreed requirements, such as the study area, data type, and measurement granularity, ensuring all necessary information is captured with precision. This makes data collection easy and reduces human interference, hence reducing the risk of error and making the obtained information more valid. After flying, the data is processed and tied up to enable further analyses. The service can deliver fast, comprehensive, and well-treated datasets according to each customer's needs using methods that can be further used in artificial intelligence models. With such information, customers will be better informed during the optimisation of their operations by using advanced technologies.

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

This service is ideal for clients who lack the necessary resources to efficiently capture large volumes of data needed to generate datasets. In this way, the client addresses their challenge of creating datasets tailored to their training, analysis, or model validation needs.

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

Gradiant is committed to delivering the agreed-upon data to the client at the conclusion of the measurement campaign. In this way, Gradiant offers flexibility regarding the types of images to be captured as well as the types of sensors used to collect the data (client requirement). Additionally, to validate the execution of the service, all drone flight regulations applicable in the study area must be observed.

## **Service customisation**

This service has no restrictions regarding the time of year it can be provided. After determining the client's needs, the date, duration, and scope will be agreed upon. After completion, the client will receive the resulting data from the measurement campaign in digital format.