

**Service ID** S00281



**Location** Remote

## Data quality analysis of data to be used in agrifood AI or robotics system

### Provider service

GRADIANT

### Link to content

<https://agrifoodtef.eu/services/data-quality-analysis-data-be-used-agrifood-ai-or-robotics-systems>

### Type of Sector

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

### Accepted type of products

Data

### Type of service

Data analysis, Desk assessment

### Description

Given a dataset intended to be used in AI or robotics applications for the agrifood sector, a quality analysis will be performed to search for issues in the provided data. Thus, the customer can ensure their data is reliable and suitable for use in this kind of application. The dataset could be an input or an output of an AI process. For example, it could be data to train a predictive system or the output of that predictive system (which allows detecting prediction problems, like predictions out of range or not following the expected output distribution). The kind of issues to search for range from missing values to problems related to data out of distribution. As a result of this service, the client will receive a report with the conclusions and recommendations on how to improve the data, if needed.

### How can the service help you

This service helps organisations in the agrifood sector to ensure their data is reliable and suitable for use in AI and robotics applications. Before using the service, customers may be uncertain about whether their datasets contain hidden issues that could compromise the performance of their AI models or robotic systems.

They might have concerns about data quality but lack the expertise or tools to properly evaluate it. After using the service,

### How the service will be delivered

To use this data quality analysis service, customers must provide their dataset in a standard digital format.

The service can be delivered remotely since it involves computational analysis of digital data.

The execution time typically ranges from 1-2 weeks, depending on dataset size and complexity.

### Service customisation

The service can be customised based on specific data quality dimensions and AI/robotics application needs.

Customers can select focus areas like completeness, consistency, accuracy, or timeliness of data. The analysis can be tailored for different agricultural applications such as crop monitoring, harvesting robots, or yield prediction systems.