Service ID S00308

Location At user's premises, Belgium

Agri Drone Flight Operations

Provider service

ILVO

Link to content

https://www.agrifoodtef.eu/services/agri-drone-flight-operations

Type of Sector

Arable farming, Greenhouse, Horticulture, Viticulture

Accepted type of products

Design / Documentation, Physical system, Software or AI model, Other

Type of service

Test execution, Test setup

Description

Our Agri Drone Flight Operation service offers precision drone flights designed to collect essential data for agricultural analysis, whether for crop monitoring, land surveying, or environmental assessments. These flights utilise RGB, multispectral, hyperspectral, and thermal sensors to capture data. The data is collected with aims to help agribusinesses optimise resource management, detect crop health issues, pest management, and make informed decisions. Whether you need to test drone-integrated sensors, gather aerial imagery, or explore new analytics, this service provides a flexible and tailored approach to meet the specific needs of your operation. Customers will receive detailed data, advice, and insights that can be applied to enhance productivity, reduce costs, and support sustainable farming practices.

How can the service help you

> Support in agricultural RPAS applications

> Production of flight plan, availability of RPAS and relevant sensors, and provide a licensed pilot.

> Analysis and transformation of data to information and (if possible) actions

How the service will be delivered

This service can be customised to meet the customer’s specific needs, such as the type of sensors to be tested (thermal, multispectral, etc.) or the type of data they wish to collect (crop health analysis, land surveys, 3D models, etc.). Limitations may include weather conditions, which can affect the flight schedule, and any restrictions due to local regulations for RPAS. For more information on testing unregulated applications, please enquire about our sandbox services. Additionally, larger fields may require multiple flights for comprehensive data coverage.

Service customisation

A flight plan is created and the RPAS is transported to the location. Depending on the customization, a sensor is installed and calibrated correctly. A licenced pilot will conduct the flight ensuring a safe and relevant test setup.