



# ICAERUS

## Innovation and Capacity Building in Agricultural Environmental and Rural UAV Services

ICAERUS aims to apply, showcase and support the effective, efficient and safe deployment of drones as well as identify the risks and added values associated with their use.



### FORESTRY AND BIODIVERSITY (LITHUANIA)

Establish methodologies for UAV based monitoring and assessment of:

- Tree health
- Fire risk
- Wildlife (wild board) populations



### LIVESTOCK MONITORING (FRANCE)

- Assess drone and camera models for livestock monitoring
- Create an inventory of routines and drones
- Assess socio-economic and environmental impact of using drones



### RURAL LOGISTICS (NORTH MACEDONIA/ GREECE)

Design, develop and deploy an innovated drone delivery fleet management system for remote rural areas.



### CROP MONITORING (SPAIN)

- Integrate automated solutions for disease detection on leaves and canopies
- Locate and map diseased plants
- Interactive online platform with 2D and 3D analytics



### DRONE SPRAYING (GREECE)

- Test and assess for optimal spraying configurations
- Compare efficiency and impact of drone vs conventional spraying
- Identify risks and mitigation strategies

## PUSH Open Calls

### FOR INNOVATION DEVELOPMENT

Funding innovative ideas that leverage drone technology and data sets to address real-world problems in agriculture and rural areas

- 8 sub-projects funded
- 60K per sub-project

## PULL Open Calls

### FOR FARMING, FORESTRY & RURAL CHALLENGES

Funding end-users that can utilize drones and their services to address commercial and community needs in rural areas

- 12 sub-projects funded
- 50k per sub-projects

## Drone Data Analytics Library



An open access repository of models and algorithms catering to diverse drone related needs

## ICAERUS Platform

A web based platform for access all of the project results, including 6 elements:

1. The Drone Market Landscape
2. The Drone Data Analytics Library
3. ICAERUS Use Cases and Open Call Trials
4. Socio-economic and Environmental Impact Assessment Results
5. Inclusive Business and Governance Models
6. The ICAERUS Academy



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