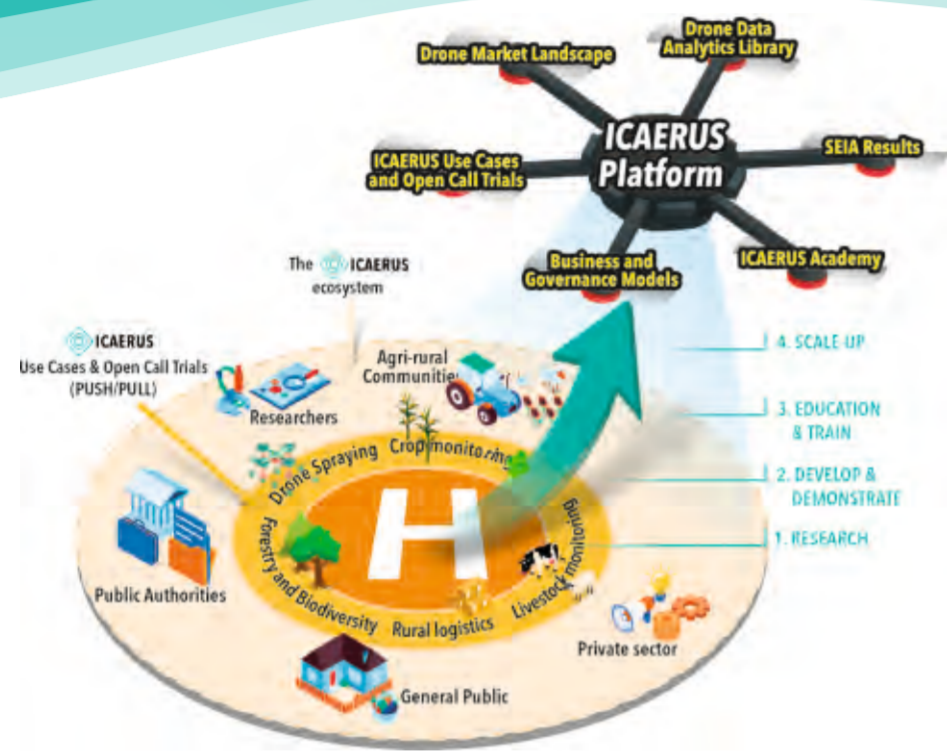




# ICAERUS



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



### — WHY ICAERUS?

ICAERUS' vision is to explore opportunities for drones and provide a complete, interconnected account of their potential and impact as multi-purpose vehicles in EU agriculture, forestry, and rural areas.

### — PROJECT OUTCOMES

**ICAERUS Platform:** one-stop web-based platform for drone related information.

**Drone Market Landscape:** an inventory of current drone market intelligence.

**Drone Data Analytics Library:** a repository with emerging data analytics models.

**ICAERUS Academy:** free online training on 8 drone related subjects, and onsite workshops.

**Business & Governance Models:** with support services to help businesses apply them.

**Policy Recommendations:** stakeholder driven guidelines for drone safety regulations.



### — OPEN CALL TRIALS

**2 Push Open Calls:** for Research & Innovation, targeting SMEs that will deliver and exploit drone related data sets, ideas, concepts and prototypes.

**2 Pull Open Calls:** aimed at agricultural production end users, environmental monitoring and rural communities that will utilize drones and related services to tackle commercial or community issues.

### — USE CASES

#### Crop Monitoring

Use drones for plant stress identification, weed detection and 3D canopy reconstruction. Develop decision support system.

*Tarragona, Spain*

#### Drone Spraying

Test and assess drone spraying conditions, compare efficiency and environmental impact between drone and conventional spraying.

*Attica and Viotia Regions, Greece*

#### Rural Logistics

Design and develop an innovative drone-delivery fleet management system and integrate state-of-the-art technologies to automate drone navigation operations.

*Ohrid and Strumica, N. Macedonia*

#### Livestock Monitoring

Assess the labour-reduction capabilities of drone-based herd monitoring for different grazing cattle and sheep systems.

*Alpes-de-Haute-Provence, Saône-et-Loire, France*

#### Forestry and Biodiversity

Use drones to monitor forest health, ecosystems, assess biodiversity and identify and inspect high fire risk areas.

*Scots Pine Forest, Lithuania*



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