

DRONES AND ICAERUS

Drones are an efficient, flexible digital technology that can perform increasingly complex tasks without damaging the environment, but their widespread adoption across the agri-food sector has been limited by:



Costs



Knowledge gaps



Regulatory and safety restrictions

ICAERUS aims to tackle these challenges by supporting and showcasing the **effective, efficient, and safe deployment of drones** in applicable settings and to **identify risks and added values** associated with their use.

DID YOU KNOW?

The EU Farm to Fork strategy targets a 50% reduction in the use and risk of chemical pesticides by 2030.

The market value of the Agricultural Drone market is expected to reach >23 billion USD by 2032.



Do you want to
get in touch with us?

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ICAERUS

Coordinator



AGRICULTURAL UNIVERSITY OF ATHENS
ΓΕΩΠΟΝΙΚΟ ΠΑΝΕΠΙΣΤΗΜΙΟ ΑΘΗΝΩΝ

Partners



ICAERUS

Innovation and
Capacity building in
Agricultural Environmental
and Rural UAV Services



Funded by
the European Union

Grant agreement N° 101060643

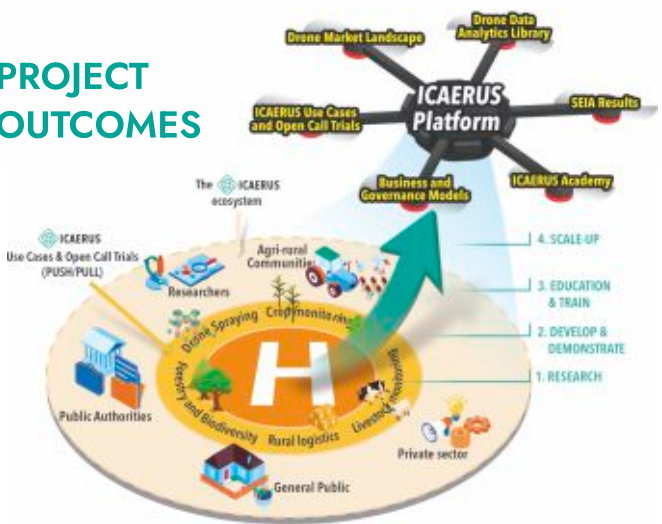




WHY ICAERUS?

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.

WHO WILL BENEFIT?



USE CASES & OPEN CALL TRIALS



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*



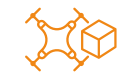
Drone Spraying

Test and assess drone spraying conditions, compare efficiency and environmental impact between drone and conventional spraying. *Attica and Viotia Regions, Greece*



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*



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*



Forestry and Biodiversity

Use drones to monitor forest health, ecosystems, assess biodiversity and identify and inspect high fire risk areas. *Scots Pine Forest, Lithuania*

