



THE SPADE PROJECT

MULTI-PURPOSE PHYSICAL-CYBER AGRICULTURE FOREST DRONES ECOSYSTEM FOR GOVERNANCE AND ENVIRONMENTAL OBSERVATION



Funded by
the European Union

Rationale:

Risks related to drone operations

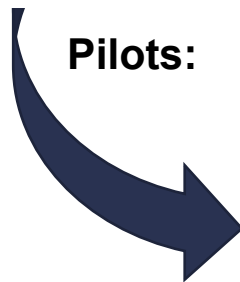
- Cyber-security breaches
- physical safety and security hazards
- risks of human errors

New regulations concerning drones

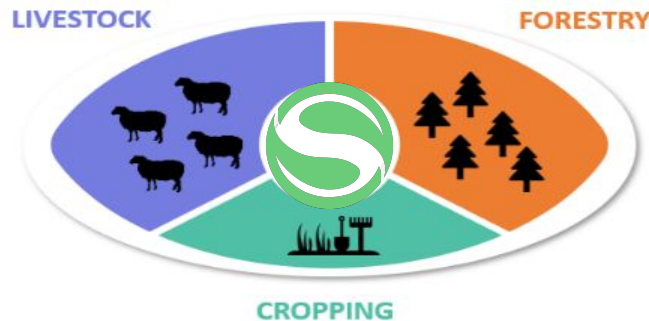
Emergence of new operations, applications and services

Technological architecture is complex

SPECIFIC OBJECTIVES



Pilots:



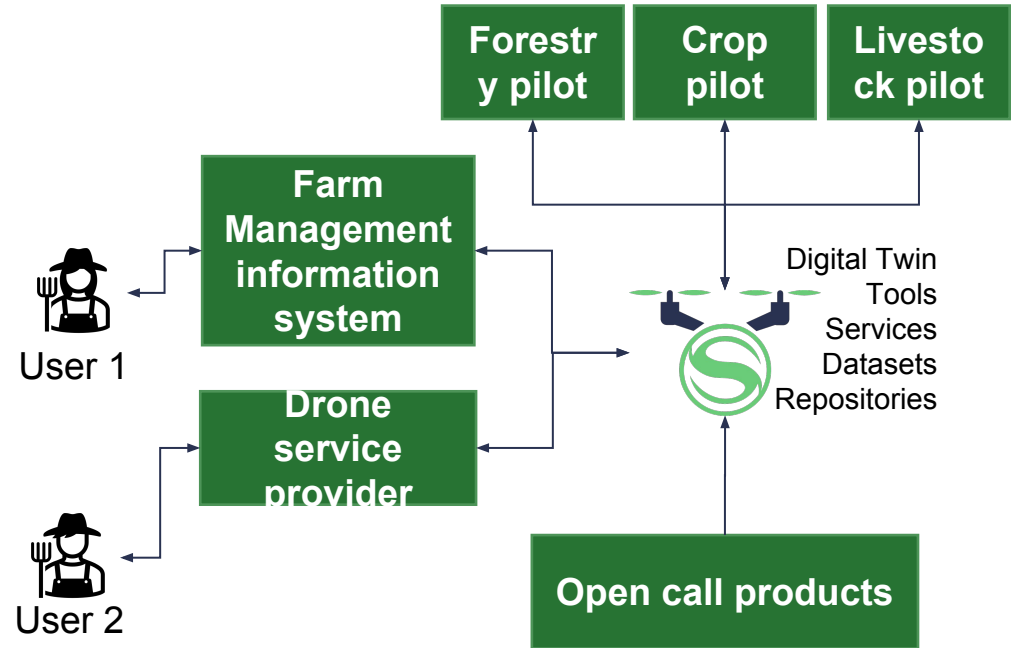
The SPADE ecosystem

SPADE platform

- Distributed architecture
- Cybersecurity, Connectivity and Interoperability
- Digital twin support
- Drone data marketplace
 - Data processing and distribution
- Services marketplace

Large scale demonstration and impact

- Pilots in Forestry, Crop and Livestock
 - 3 use cases – swarm, cooperative and large operative for applications
- Open calls
- Virtual representation via digital twin method
- Open source
- Standardisation



The SPADE open research

Open data

- Repositories
- Codes

Open tools

- Services

Open access publications

- Scientific publications
- Popular press and other publications

Project results

- Public documents

Open platform

- External service providers
- External data providers





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<https://spade-horizon.eu/>

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