

Technological challenge 2

Departments that propose the challenge:

- Ministry of Maritime and Rural Areas

1. - Areas / topics that the department wishes to investigate/innovate with the aim of improving the delivery of public services through UAVs.

- Poaching control
- Maritime Salvage
- Combating pollution
- Control and monitoring of the Spanish fishing fleet

2. - Activities or resource intensive processes that can improve the department by employing UAVs based solutions.

- Systematic surveillance of mollusc production zones for the prevention of poaching.
- Systematic surveillance of the conditions of fish farming facilities in the maritime and land-sea area.
- Early detection and assessment of accidental marine pollution.
- Location of pollution sources on the coast and at sea.
- Search for missing at sea.
- Control of the activity of fishing vessels of the fleet based in Galicia port.

3. - Technical or technological challenges that should solve these solutions (this section includes the integration of solutions into existing processes or technology platforms department)

Increase the capacity and autonomy of the aerial equipment (helicopters) as well as improving flight capacities in complicated weather conditions.

It is considered essential that the operation of UAVs be made entirely from Coast Guard vessels, especially landing and take-off operations.

4. - Management and technical team provided by the department with technological partner.

- Deputy Director General of the Coast Guard of Galicia
- Head of Search, Salvage and Combating Pollution
- Head of Service for Resource Protection

5. - Operational improvement, process optimisation, cost reduction ... that it expects to achieve by implementing solutions based on UAVs

Decreased response time; have prompt information on issues of both resource protection, as well as search and rescue and combating pollution; substantial reduction in operating costs would avoid preventive movement of air, land and maritime resource control , prevention of poaching, salvage