Celtic-Plus Proposers Day
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Project Pitch
“UAV connectivity”

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Teaser

What is the main benefit of the idea/proposal?
What makes the added value?
Why should I participate in the project?

- Unmanned systems (e.g. drones) increasingly significant
- Transportation will make even more use of 3rd dimension (congestions are a huge problem!)

- Connectivity of systems is crucial (safe, secure, flexible, bandwidth)
- Ecosystem is under high pace (4G > 5G, regulations, UTM etc.)
- No established connectivity solution for UAVs covering reqs

- We are currently developing a portfolio of products and services (invest in connectivity as a key qualifying competence)
- Airbus is a key player in aerospace
WE CONNECT AND PROTECT lives.

Airbus Defence and Space is Europe’s largest and most innovative defence and space company. We develop and manufacture world-class aerospace products. Our exceptional platforms and services allow our customers to address even their most challenging operational needs.
Proposal Introduction (1)

What is the idea/proposal about (vision, motivation, content)?

- **Scope**: commercial UAV applications for end-users (or dual use) (public transport, large industries, energy, security forces…)
- Connectivity covers vehicle C2 (green) and mission chains (blue)
- **Blue**: automatic processing of collected information like video, image, IR/EO (e.g. default detection, identification of missing elements, difference analysis, anomaly detection, etc.)
- **Blue**: Connectivity services for augmented reality (remote piloting)
- **Green**: Swarming capabilities: physical configuration to be defined; communication protocols to be identified and enhanced for improved performances (5G)
- **Contribution to** (ATM/UTM and Spectrum) **regulations**: What connectivity aspects should regulations take into account? What regulatory conditions do hamper connectivity most? Pattern breaking? Disruptions?
Proposal Introduction (2)

Short info on expected outcome, impacts, schedule

- Outcomes:
  - Definition of concise use cases involving end-users
  - Connectivity architecture definition
  - Connectivity design & prototyping
  - 1 to 3 flying demonstrations addressing key use cases
  - Identification of current regulation limits and proposal for evolutions

- Duration: 2 to 3 years

- Next milestone: we intend to answer the October call
Partners

Existing consortium, involved countries. Expertise, profiles and types of partners you are looking for.

• TBD, inviting all interesting contributors
For more information and for interest to participate please contact:

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