SESAR 2020 Very Large Demonstrations
Research
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Info Day - Research and Very Large Scale Demonstrations Call for Proposals  H2020-SESAR-2016-2

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Why VLDs?

To See is to Believe

• Generate further confidence to support buy-in from main stakeholders including regulators for future deployments.
• Significantly reduce the business risks for both operational stakeholders and industry.
• Provide further inputs to related standardisation activities.
• Raise awareness regarding SESAR activities related to ATM performance issues and their results.
• Accompany SESAR pioneers all the way to pre-deployment.
• To assess full-scale deployment readiness.
What are we looking for?

• SESAR Solutions demonstrations for High Performing Aviation in Europe (6 topics)
• Global interoperability (2 topics)
• Safe Integration of all Air Vehicles (2 topics)

3 areas covering 10 topics
SESAR Solutions demonstrations for High Performing Aviation in Europe

- Targeting the involvement of airspace users on specific demonstration platforms already awarded within the PPP (topics 1-4)
  - (!) aircraft modifications expected

- Pushing virtualization of air traffic services beyond remote towers

- Support safe access to small and medium-size airports

- To ensure continuity in the delivery of efficient ATS services in case of major technical failure at one of the ACCs (topic 5)

- Through advanced on-board equipment and GNSS augmentation (topic 6)
Global interoperability

- Using satellite data communication, navigation and surveillance as the enabler for seamless transitions (topics 7)
  
  (!) aircraft modifications expected

- Using ICAO FF-ICE/1 provisions and the supporting FIXM 4.0 elements (topics 8)
Safe Integration of all Air Vehicles

- A range of options can be considered to support better flight planning and execution using non-certified equipment (topics 9)

- Demonstrate that quick-wins can be achieved acknowledging the need for urgent action on the development of solutions for low level operations “U-Space” (topics 10)
Total budget and number of projects?

- SESAR Solutions demonstrations for High Performing Aviation in Europe (6 EUR Million)
- Global interoperability (3 EUR Million)
- Safe Integration of all Air Vehicles (5 EUR Million)

No pre-defined budget per project

Selection based on “value for money”

- SESAR Solutions demonstrations for High Performing Aviation in Europe (10-15 projects)
- Global interoperability (2-4 projects)
- Safe Integration of all Air Vehicles (7-10 projects)
Duration of the projects and implementation guidelines

2 years
Implementation guidelines

- State compliance with SESAR requirements with regards to e.g. “proof of concept”
- Identify and plan effort to provide input to standardisation bodies, link with regulatory authorities (EASA)
- Include a comprehensive communication and risk management plan
- We only require 2 key deliverables per project besides quarterly reporting, but those shall be publishable
- Describe an effective Interface with the SJU in line with the guidance (number of meetings, deliverables …)
- Identify coordination mechanism with other projects (when required)
- ...

To be demonstrated in project management approach