

Supporting  
European  
Aviation



# Airspace Users Workshop

## Partnership for SESAR 2020 Wave 2

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07/11/2019



# EUROCONTROL Objectives

- Establish an essential partnership for future R&D activities.
- Fully align the operational solutions with the business objectives of the AU community.
- Secure the required AU expertise for SESAR 2020 Wave 2 Industrial Research (2020-2022).
- Anticipate potential needs of SESAR 2020 ER04 Exploratory Research (2020-2022).

# Scope

- PJ02 Airport Airside and Runway Throughput.
- PJ04 Total Airport Management.
- PJ07 Optimised Airspace Users Operations.
- PJ09 Digital Network Management Services (Demand Capacity Balancing).
- PJ10 Separation Management and Controller Tools.
- PJ13 Enable RPAS Insertion in Controlled Airspace.
- PJ14 Integrated CNSA.
- PJ18 4D Skyways (Trajectory Management).
- PJ19 Content Integration, Performance Management and Business Case Development.
- PJ20 Master Planning.

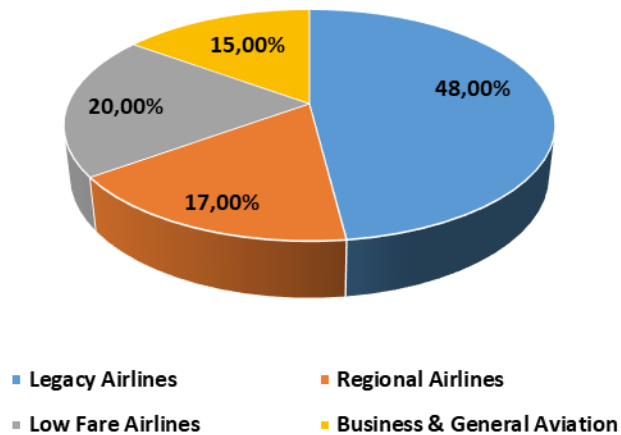
# Activities

- Contribution to the definition of operational concept and solutions.
- Preparation and participation to validation exercises and contribution to validation reports.
- Provision of expertise to project workshops.
- Providing economic and financial inputs, analysis and review of Business Cases at two levels:
  - Cost Benefit Analyses of operational solutions.
  - Business Cases in support of the Master Plan.
- Support to the identification of standardisation and regulatory needs.
- Linking R&D with deployment through the review of Deployment Scenarios and associated Business Case Analysis.

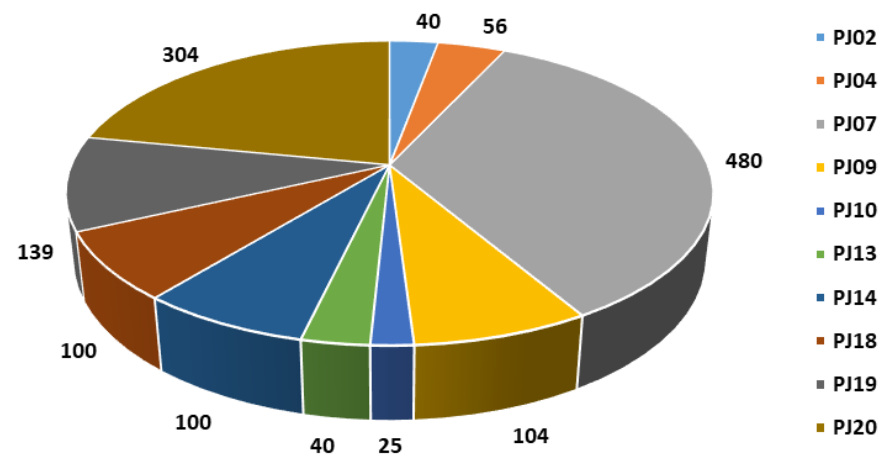
# Expected Participation

- Legacy Airlines (possibly operating from outside Europe).
- Regional Airlines.
- Low Fares Airlines.
- Business Aviation and General Aviation (including helicopter operators and UAS operators).
- Professional associations.

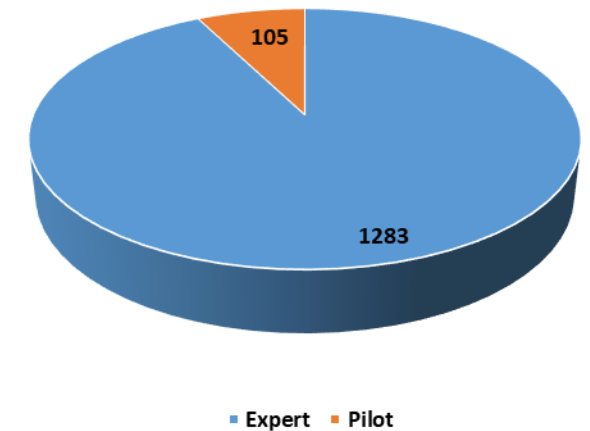
Estimated effort distribution



Estimated effort in person.days



Estimated effort in person.days



## Requested Expertise 1/2

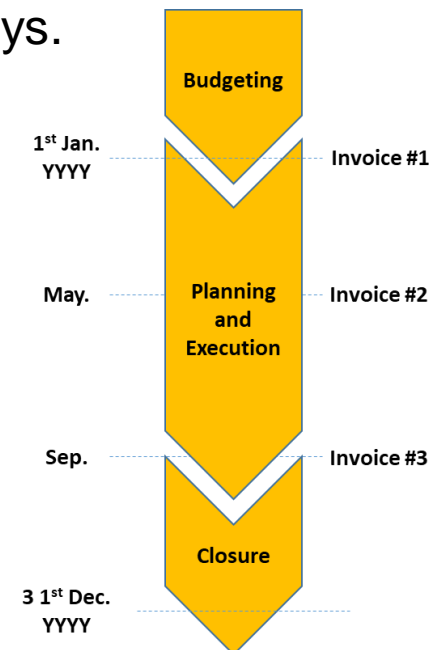
- Flight operations, in particular Performance Based Navigation and fuel conservation.
- Flight planning processes and supporting systems (both for ATM and U-space/UTM).
- Aircraft and UAS system specifications (Communication, Navigation and Surveillance).
- Production planning processes (aircraft scheduling, network management) and supporting systems.
- Production control processes (OCC) and supporting systems (both for ATM and U-space/UTM).
- Ground Handling.
- Performance, Cost and Benefit Analysis and financing aspects.
- Applicable regulations and standards (airborne equipage and OCC systems).

## Requested Expertise 2/2

- Review of concept and validation deliverables:  
Experts (operational/engineering level) having a broad view of Airspace Users operations .
- Participation to expert groups and validation exercises:  
Operational staff with different roles (Dispatcher, Flow Manager, Fleet Manager, Supervisor, Pilot) depending on validation objectives.
- Participation to project workshops and review of Business Case analysis:  
Experts (management/engineering level) having a strategic vision and able to represent their company's viewpoint.
- Optional: understanding of SESAR 2020 programme objectives and work breakdown structure, ATM Master Plan and Target Concept and Architecture.

# Contracts

- One contract per company.
- Future tasks to be specified and activated by projects whenever needed (yearly planning).
- **Step 1 – Budgeting:**
  - Identify high-level project needs (draft Statements of Work SoW) for the forthcoming year.
  - Define the role of each organization/expert per project and pre-allocate number of days.
- **Step 2 – Planning and Execution (three invoices/year):**
  - Refine the allocation of AU experts per task and/or deliverable in the SoW.
  - Confirm the availability of resources at planned dates, and the price.
  - Execute the project tasks and produce the deliverables.
  - At the end of each period, invoice the completed tasks and deliverables.
- **Step 3 – Yearly closure:**
  - Make a synthesis of contribution and solve open issues.





# Next Steps

- Publication before the end of November 2019.
- 6-week tendering period.
  - Brief presentation of the structure of the Tenderer.
  - Evidence of the tenderer's expertise and experience relevant to SESAR.
  - Presentation of the understanding of the SESAR Programme and the EUROCONTROL requirements/needs.
  - Description of the proposed management approach.
  - Detailed CVs of key personnel proposed to perform the different tasks.
  - Proposed effort per project.
  - Costing model (including mission expenses).
- Expected start by mid-February.

# Questions

