

# SESAR

JOINT UNDERTAKING



founding members





# SESAR Integrated RPAS Demonstration Activities

## Information Day

Call for proposals – SJU/LC/0087-CFP

Brussels 18 March 2013

founding members



# Agenda

Introduction

Purpose of this Call

Expected content of the proposals

Expected deliverables

Place of performance and schedule

Evaluation process

Conditions of performance

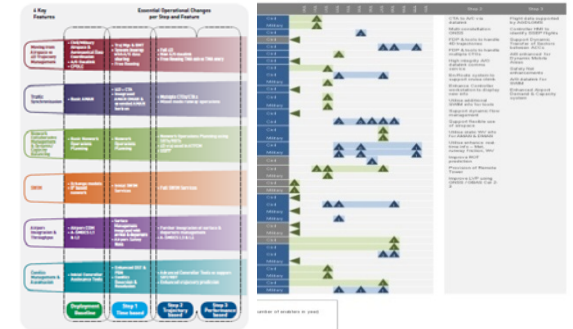


# Introduction

# What is SESAR? *Research & Development*

## MASTER PLAN

PERFORMANCE NEEDS  
 OPERATIONAL IMPROVEMENTS & ENABLERS  
 HIGH LEVEL DEPLOYMENT & DEVELOPMENT TIMELINE



## PROGRAMME

PERFORMANCE VALIDATION TARGETS  
 CONCEPT & ARCHITECTURE  
 OPERATIONAL & TECHNOLOGY SOLUTIONS  
 CASES  
 STANDARDISATION & REGULATION PREP.

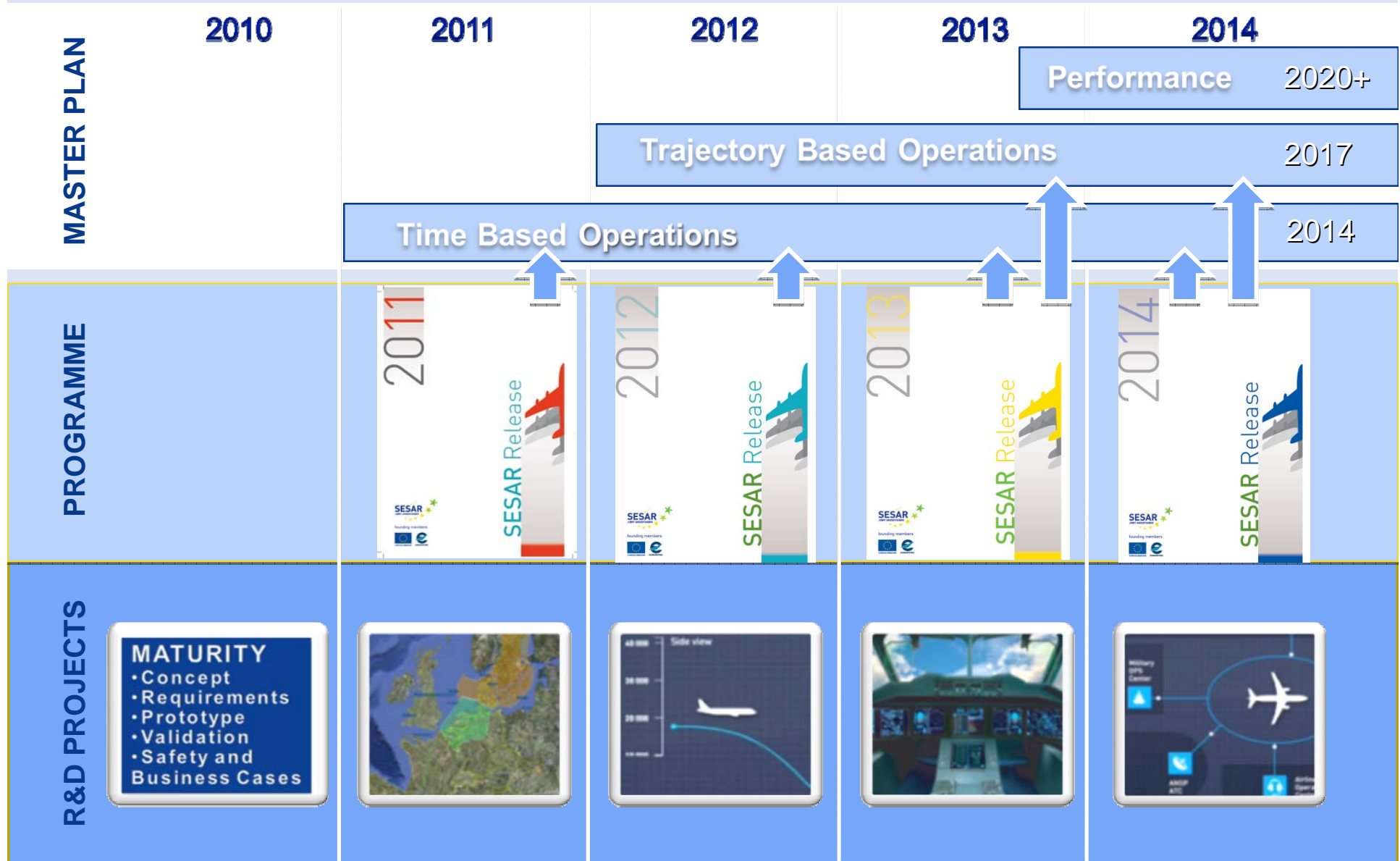


## R&D PROJECTS

OPERATIONAL REQUIREMENTS  
 SYSTEM PROTOTYPES  
 VALIDATION ACTIVITIES & RESULTS



# What is SESAR? *Delivery*



# Why RPAS Demonstration activities?

- **EU R&D Roadmap** (*draft on-going*) structured to provide:
  - objectives and high level principles governing the future R&D activities
  - integration requirements
  - operational and technological system gaps, describing enablers that are required to achieve full RPAS integration
- **Initial RPAS integration by 2016 into non-segregated ATM environments**
- **Need and added value:**
  - demonstration activities at flight test centres or centres of excellence with access to airspace
  - bringing together RPAS operators, Industry, ANSP and Regulatory authorities to collect best practices
  - developing operational procedures, technical documentation and proposals for standards



# Purpose of this Call for Proposals





# Select “Demonstration Projects”...

Approximately 10 “Demonstration Projects”, which include integrated pre-operational flight trials activities, will be selected



*Illustrative*

**Integrated Demonstration Project**



## ... which aim at:

- **Demonstrating how to integrate RPAS into non-segregated airspace in a multi-aircraft and manned flight environment**

⇒ *in order to explore the feasibility of integration with the wider aviation community by 2016*

- **Providing concrete results, filling the operational and technical gaps identified for RPAS integration into non-segregated airspace**
- **Capitalising on the SESAR delivery approach by providing synergies, risk and opportunities, with the overall SESAR programme**



# Who can participate to a Project?

A consortium of at least two independent legal entities with a minimum of:

- One RPAS flight operator
  - *entity able to implement unmanned aircraft system flights from a legally certified platform and with a legally licensed team*
  - *either public / private company, RPAS manufacturer or RPAS research centre*
- One ANSP connected to the relevant regulatory authorities



# Can 3<sup>rd</sup> Parties be involved? How?

- Subcontractors

- No direct contractual link with SJU *i.e., not signatory of the co-financing agreement*
- Work under full responsibility of the Consortium Member
- Paid 100% by the Consortium

*... Involvement of other type of 1/3 parties linked to the Consortium Members carrying out part of the Project studied by SJU...*



# Key dates of the procedure

- **Launch of the call:** ⇒ **07 Feb. 13**
- **Deadline for submission:** ⇒ **31 Mai 13**
- **Co-financing agreements:** ⇒ **End June 13\***
- **Kick-off Meeting:** ⇒ **Sept. 13\***

*\*target dates*

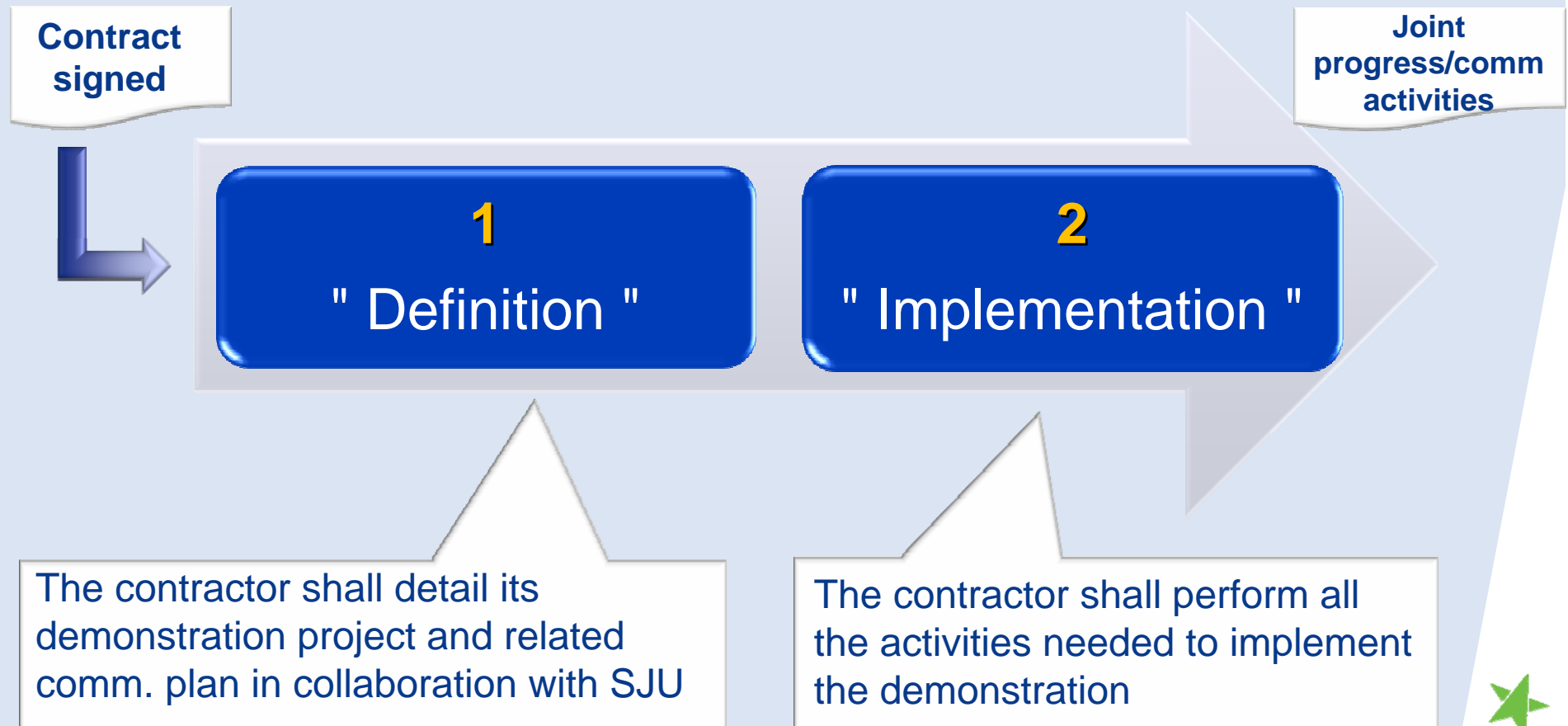


# What is the expected content of a demonstration project?



# Project in 2 phases

Each demonstration project will be composed of two phases:

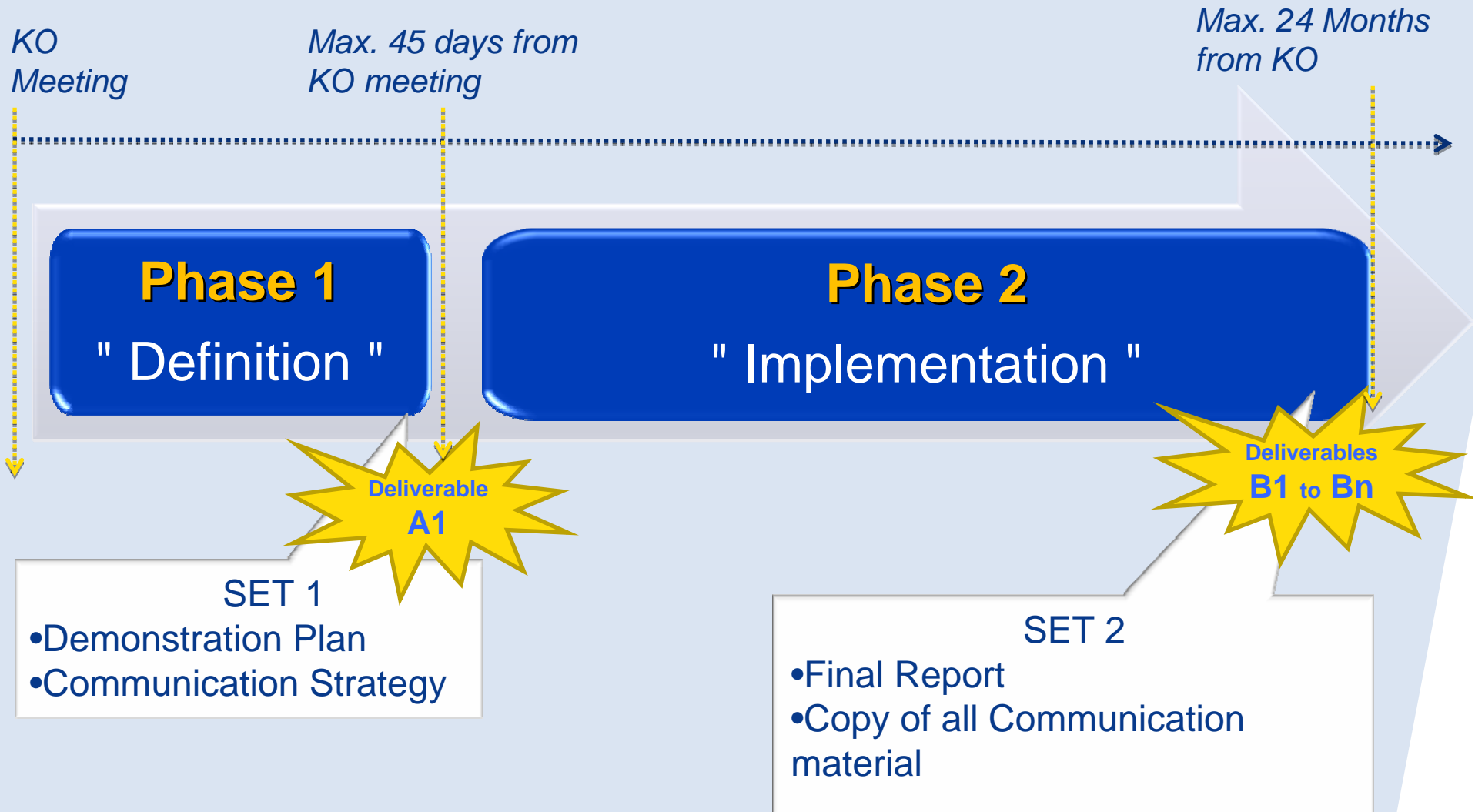


The background of the slide is a close-up photograph of several interlocking blue puzzle pieces. The pieces are arranged in a way that creates a sense of depth and texture, with some pieces in sharp focus and others blurred in the background. The lighting is soft, highlighting the edges and the interlocking shapes of the pieces.

# Expected Deliverables



# Two (02) sets of deliverables



# Place of Performance and Schedule



# Place of performance and schedule

## All Demonstration Activities shall:

- be relevant at European scale
- be performed in European Union and/or Eurocontrol member States
- cover various types and sizes of RPAS
- be performed between the third quarter 2013 and first quarter 2015



# Evaluation Criteria

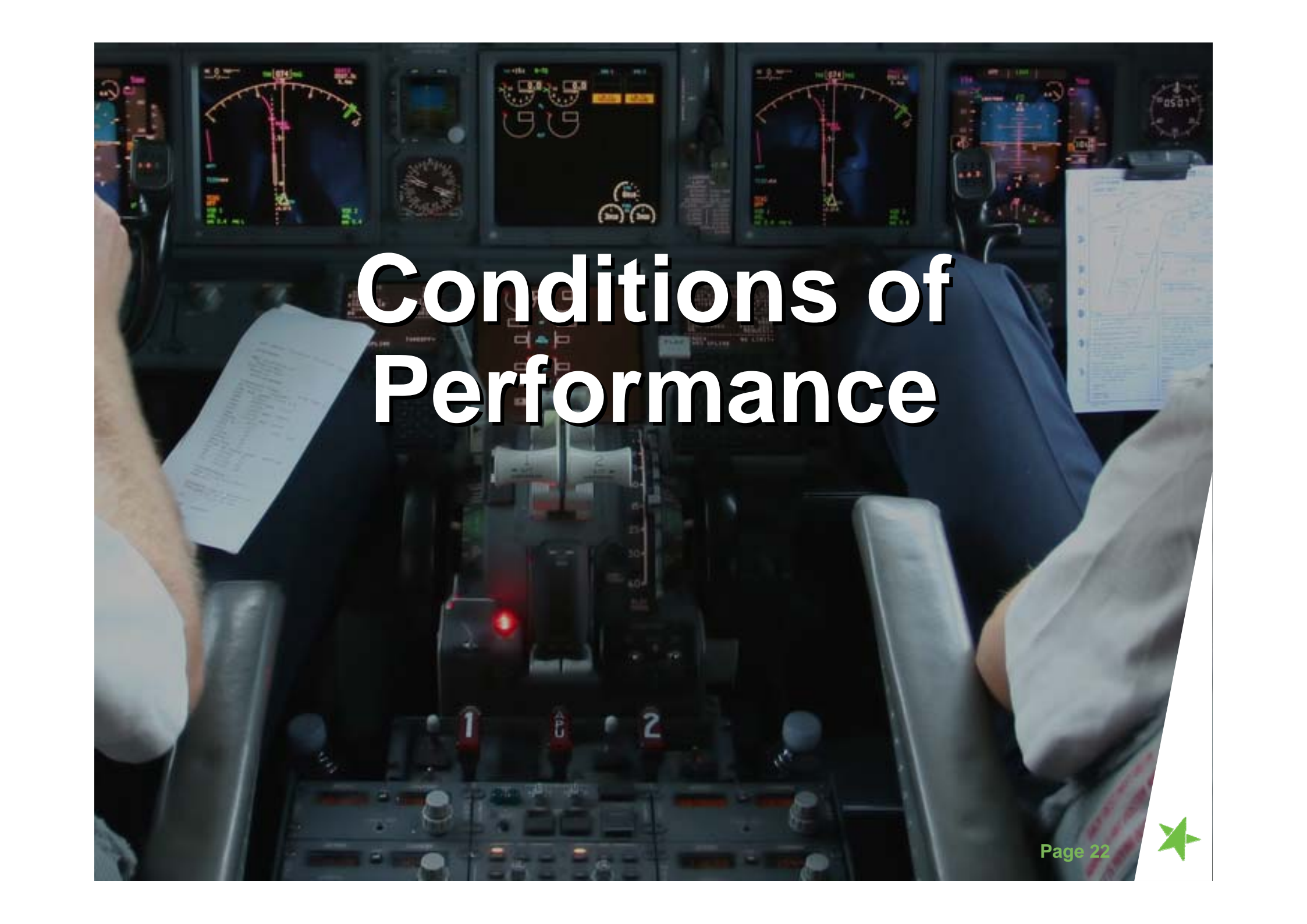


# Evaluation Criteria

- The contract will be awarded according to the criteria below, on the basis of the economically most advantageous proposal

| N° | Award criteria  | Weighting |
|----|---|-----------|
| 1  | Consortium organization, planning, resources made available, level of involvement of stakeholders in different aircraft/flight environments.  | 20        |
| 2  | Quality of the proposed project in particular with regards to:<br>-description, relevance and clarity of the proposed project and its objectives;<br>-performance of flight trials in order to be able to draw conclusions;<br>-advantages, risks and opportunities of the proposed project in comparison with the current situation.   | 30        |
| 3  | Added value to ATM R&D activities and benefits that would be achieved if the solution is implemented and to what extent the proposed project:<br>-demonstrate the benefits in a mixed RPAS/manned aircraft/flight environment that the adoption of the solution subject of the validation project will bring to aviation at European scale;<br>-raises awareness regarding SESAR activities and objectives by exposure to real life operations and to multi-stakeholder environments; and<br>-does the proposed project bundle the operational and technical gaps focusing on results towards integration more complex operations into non-segregated airspace?<br>-does support the possible insertion of RPAS in the non-segregated airspace by 2016? | 35        |
| 4  | Cost-effectiveness:<br>-To what extent is the estimated budget clear and detailed?<br>-Are the estimated expenditures based on tangible elements/information?<br>-Do the presented results of the project reflect a reasonable relationship to the estimated budget costs and the requested amount?<br>-Is the estimated amount reasonable with regard to the project content? And<br>-Are the estimated costs all necessary for the running of the proposed project?   | 15        |





# Conditions of Performance



# What are the roles & responsibilities of Consortium participants?

- One coordinator & several consortium members
  - Administrative & financial role of the coordinator
- Jointly & severally liable towards the SJU for the good technical implementation of the Project



# What are the financial conditions of implementation?

- SJU budget = max. €500.000,00 per Project
- Co-financing level = max. 50% of total estimated eligible costs of the Project
- Final Report to include Final Cost Statement
- Compulsory certificate on Final Cost Statement made by independent auditor when SJU co-financing  $\geq$  €375.000,00
- *Ex post* audit of actual eligible costs always possible





# How will I receive SJU co-financing?

- **Max. 2 pre-financing payments**
  - max. 30% of requested SJU co-financing each
  - Property of SJU until acceptance of Final Report
  - foreseen in the submitted proposals
  - requests and invoice to be sent to SJU
  - paid within max. 30 days from reception of invoice
- **Balance payment**
  - To be made within 30 days after acceptance of Final Report & relevant certificates



# Who owns the results?

- **Background**

- owned by Consortium Member and/or SJU
- prior to signature of Co-Financing Agreement, and/or
- acquired under activities performed outside of the framework of the Project
- remain property of its owner

- **Foreground**

- generated as a result of the Project
- owned by the Consortium
- except when Specifications, Standards and Norms Proposals and Validation Reports



# Any questions?

- **Presentation & minutes of this Information day**
  - available on SJU public website (procurement) at [www.sesarju.eu](http://www.sesarju.eu)
  - list of participants & contact details available upon request
- **After this meeting**
  - contacts exclusively by e-mail at [procurement@sesarju.eu](mailto:procurement@sesarju.eu)





# Thank You

[www.sesarju.eu](http://www.sesarju.eu)