



SESAR 2020 Programme Overview

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Founding Members



Where are we Today?

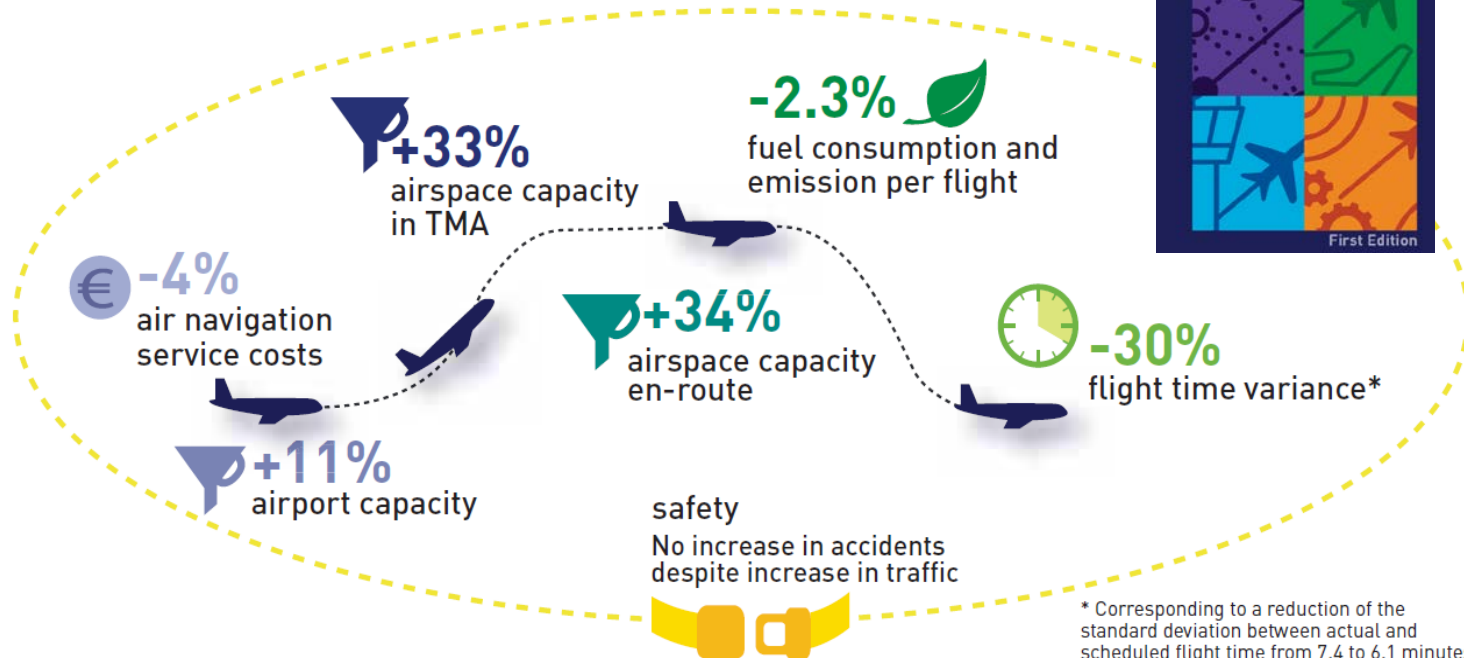
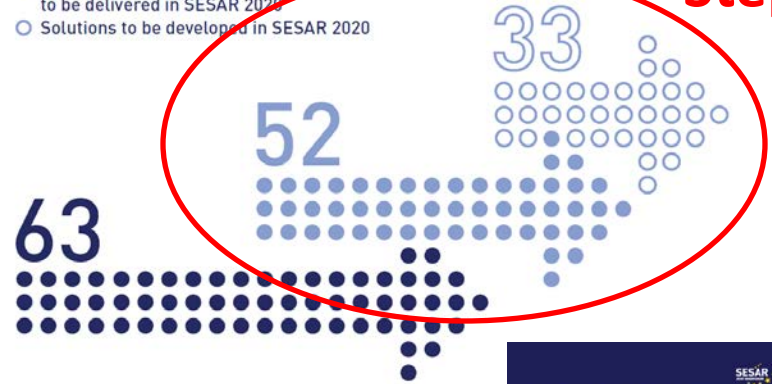
Building upon established results

SES performance in a global context

53 grants awarded

- Solutions delivered in SESAR 1 [SESAR Solutions Catalogue – First Edition]
- Solutions developed in SESAR 1, to be delivered in SESAR 2020
- Solutions to be developed in SESAR 2020

Next Steps



* Corresponding to a reduction of the standard deviation between actual and scheduled flight time from 7.4 to 6.1 minutes.

Introduction

- The SESAR 2020 Programme offers:
 - Continuity of research work started under SESAR 1
 - Opportunity to open new and innovative research
 - The time until end 2024 to run projects
- The SESAR 2020 Programme is:
 - Coordinated by an independent EU Body (EU Regulation)
 - Aligned to stakeholder needs - European ATM Master Plan
 - Described in published annual planning documents
 - Funded using mostly Horizon 2020 Research funds
 - Uniquely structured to encourage the flow of research to results
 - Continually assessed for contribution to real-world performance targets

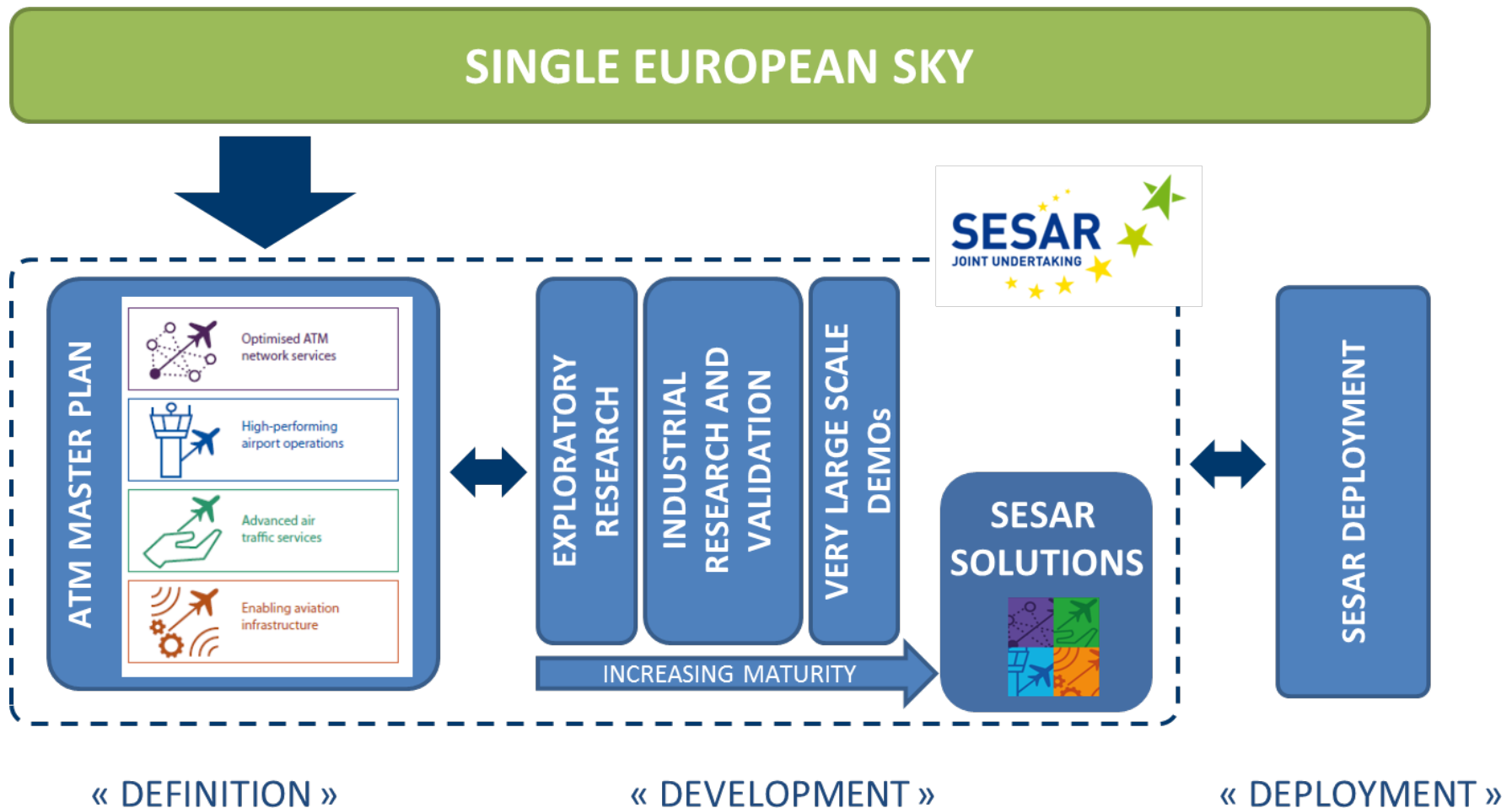


SESAR lifecycle

To define, develop and deploy the technology that is needed to increase ATM performance and build Europe's intelligent air transport system

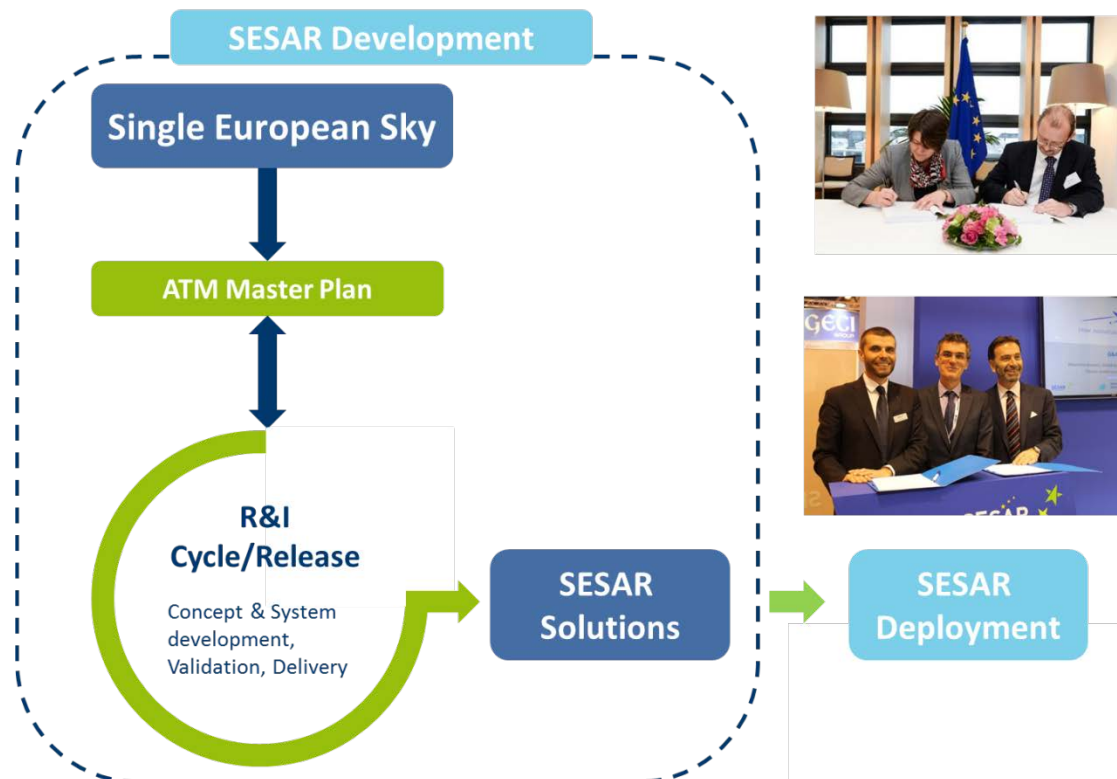


Programme Structure & Functioning

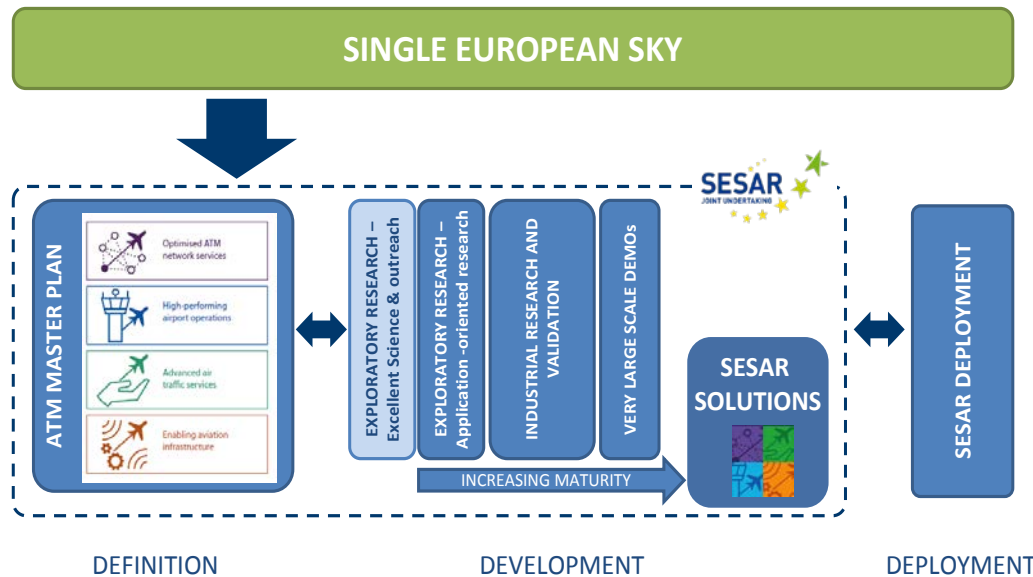


From research to results

Unlike the other JU's and JTIs, the SJU also has a unique connection with Deployment which gives an exclusive view on how R&D results will be implemented.



SESAR programme mission



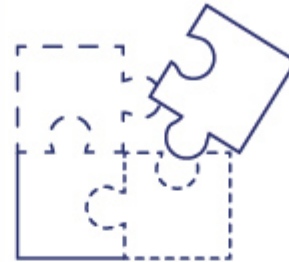
Align with EU strategy, policy & stakeholder needs
Realise the 'Pipeline' to Innovation
Focus on the high-value results as Solutions
Generate knowledge and develop skilled people

SESAR programme vision



Automation support

Automation and use
of data communications



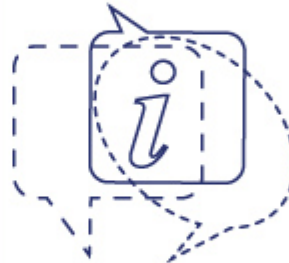
Integrated systems

Lean and modular systems,
easily upgradable and
interoperable



Integration of all vehicles

All air vehicles fully integrated
in ATM environment
(incl. RPAS)



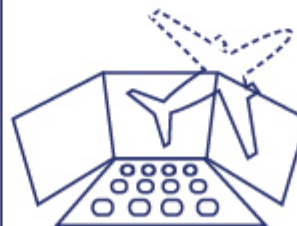
Sharing of information

Information shared digitally
via data services



Flight- and flow-centric operations

Airspace users fly their
preferred business and
mission trajectory in a flow
and network context

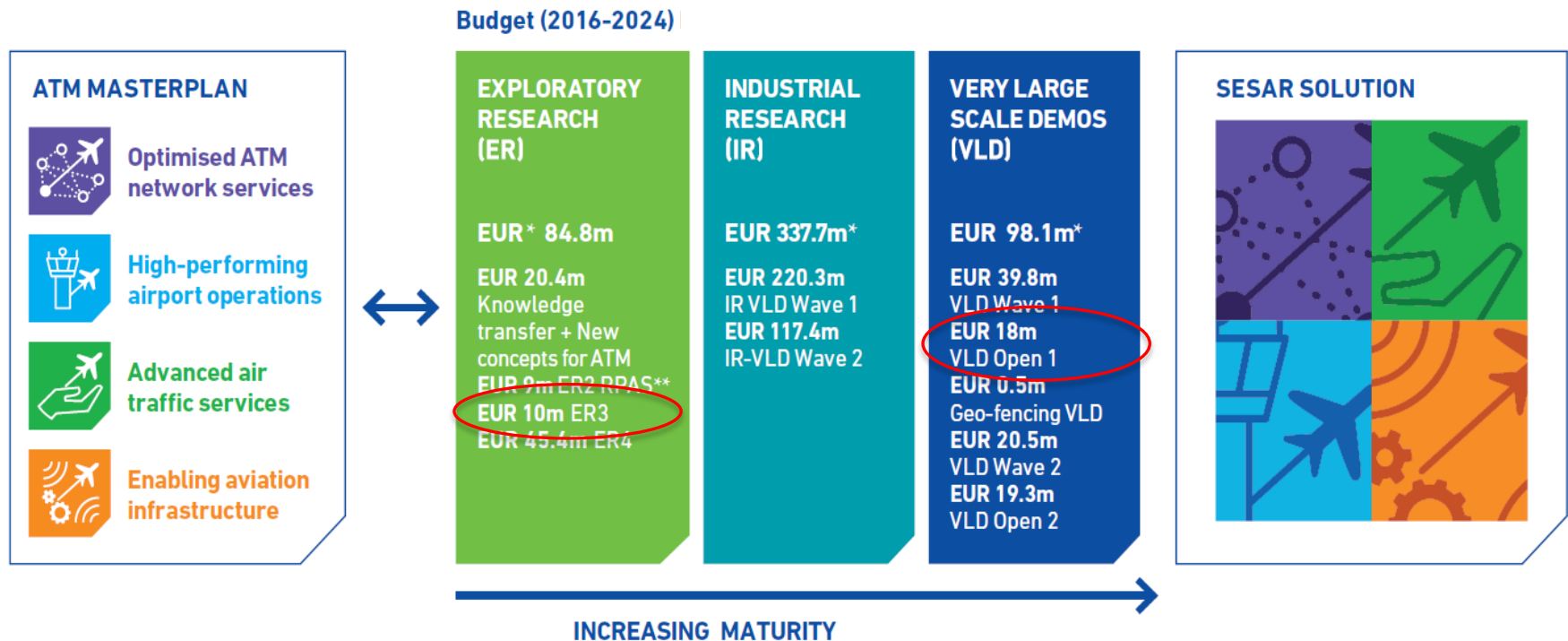


Virtualisation

Virtualisation allowing more
dynamic resource allocation

SESAR Programme budget

- Around € 270M awarded 2015-16 on ER, IR & VLD
- About € 37M expected to be committed in 2017 on ER & VLD
- Over € 200M remain to be committed in 2018-20



*Totals are estimates

**Remotely Piloted Aircraft Systems

SESAR 2020 EXPLORATORY RESEARCH AND VERY LARGE SCALE DEMONSTRATIONS



- Call identifier: H2020-SESAR-2016-2
 - Deadline: 11 May 2017
- 1 ER Topic for a Knowledge Transfer Network (c.4M€)
- 5 ER Topics for Application-Oriented Research (c.6M€)
- 6 VLD Topics for High Performing Aviation (c.10M€)
- 2 VLD Topics for Global Interoperability (c.3M€)
- 2 VLD Topics for Safe Integration of General Aviation,
Rotorcraft & Drones (c.5M€)

Why our programme?



- We are 'open'
 - You can work with us - same conditions as other H2020 calls
- We are 'ambitious'
 - Join us and show-case what you can do, then go further
- We 'challenge'
 - Embrace the targets and explore how to get there
- We 'partner'
 - Build lasting and valuable partnerships beyond ATM
- We 'deliver'
 - Secure a reputation for delivering research that matters



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Thank you very much
for your attention!



Founding Members

