PJ05-02 V3-2.4 Open Day
SJU introduction

Olivier Mongénie
SESAR Airport Programme Manager

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SESAR
JOINT UNDERTAKING

Founding Members

EUROPEAN UNION   EUROCONTROL

SESAR – SES technological pillar optimising ATM performance

SESAR's performance driven innovation pipeline
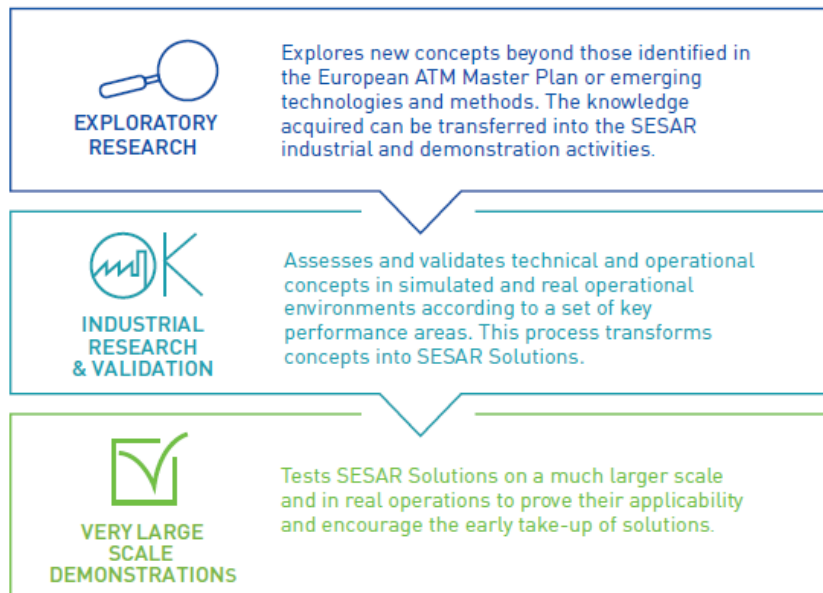
SESAR Key Features

High-performing airport operations

Advanced air traffic services

Optimised ATM network services

Enabling aviation infrastructure

EXPLORATORY RESEARCH

Explores new concepts beyond those identified in the European ATM Master Plan or emerging technologies and methods. The knowledge acquired can be transferred into the SESAR industrial and demonstration activities.

INDUSTRIAL RESEARCH & VALIDATION

Assesses and validates technical and operational concepts in simulated and real operational environments according to a set of key performance areas. This process transforms concepts into SESAR Solutions.

VERY LARGE SCALE DEMONSTRATIONS

Tests SESAR Solutions on a much larger scale and in real operations to prove their applicability and encourage the early take-up of solutions.

Improved predictability

Reduced fuel consumption & emissions

Optimised capacity

Reduced cost

SESAR SOLUTIONS CATALOGUE 2019

Third edition

2019

The SESAR Solutions factory

ATM needs	Scope	Feasibility	Pre-industrial development & integration	Industrialisation
V0	V1	V2	V3	V4
Gather and access ATM performance needs	Scope operational concept and develop validation plans	Iteratively develop and evaluate concept	Build, consolidate and test	Industrialisation and approval

Concept validation

Requirements development

Concept development

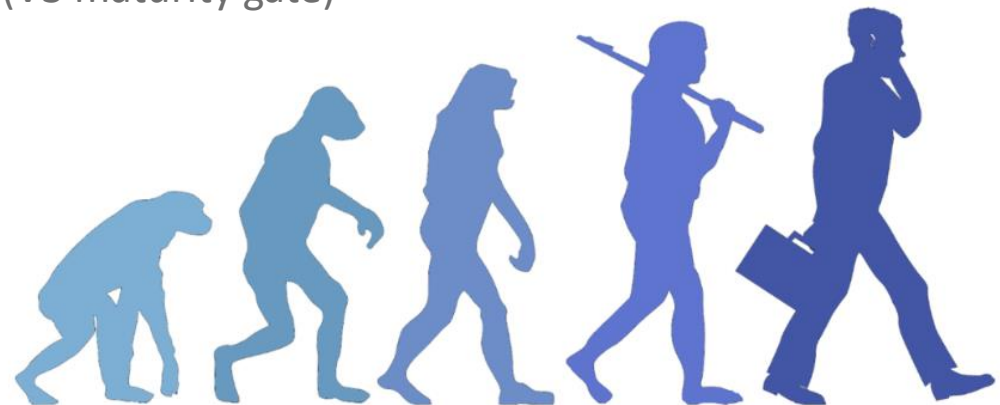Technical development and verification

Integration

Is there a life after a SESAR validation?

Yes! This validation is only one step toward the SESAR solution delivery!

- Analyse and report on the exercise results
- Consolidate these results with those of the other V3 exercises in the solution
- Update, at solution level, of
    - The operational concept description
    - operational, performance, safety and interoperability requirements
    - Human performance and safety assessments
    - Technical specifications
    - Cost benefit analysis
- Assess the maturity of the solution (V3 maturity gate)

And then?

- Standardise? Regulate? Certify?
- Industrialise
- Deploy!

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Thank you very much for your attention!