# SESAR in support of the GANP

## SESAR link to ASBU framework

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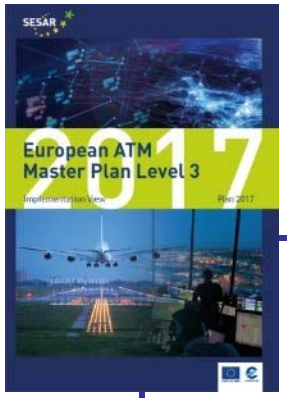
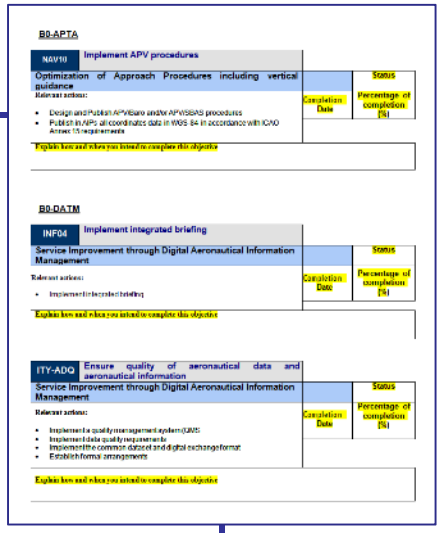
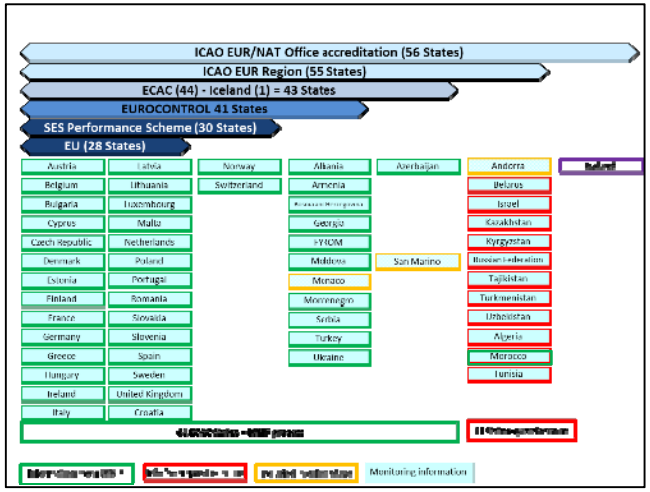
Master Plan Maintenance Project Coordinator - EUROCONTROL

13th December 2018

# Inputs for ASBU Report








LSSIP process

ECAC States
+ Morocco

Questionnaire

Non-ECAC States

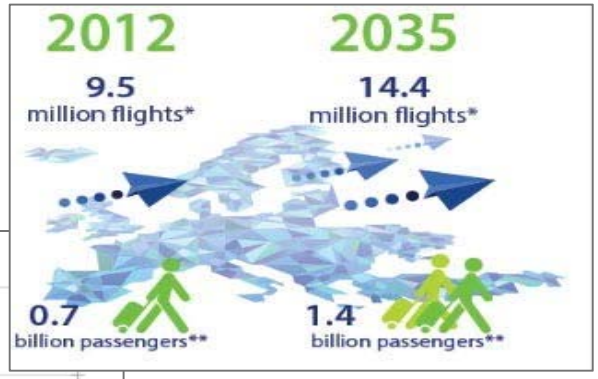
# Focusing on the ATM Master Plan Level 3 + LSSIP

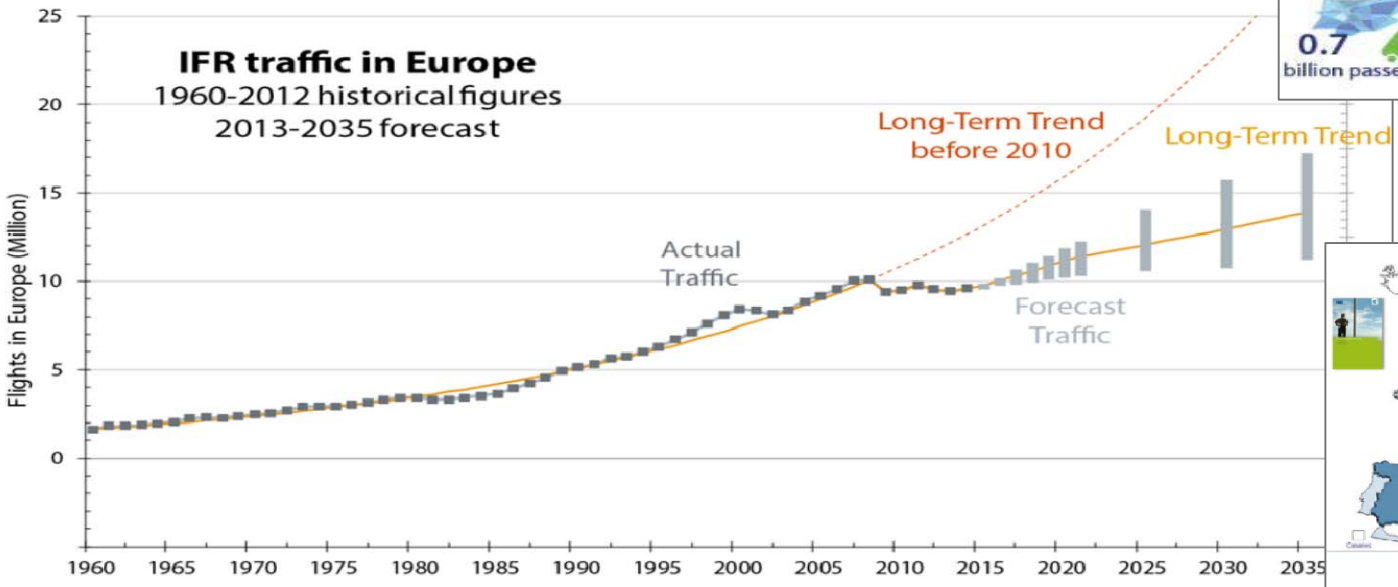
# Role of the Master Plan

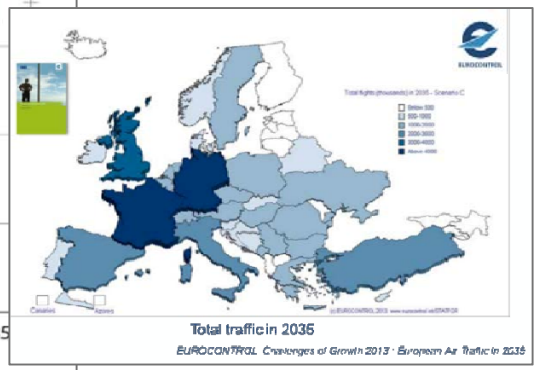
From Strategic View
to Timed Deployment

# Performance Requires Change

& Safer
More Traffic
User Needs
Less Costs



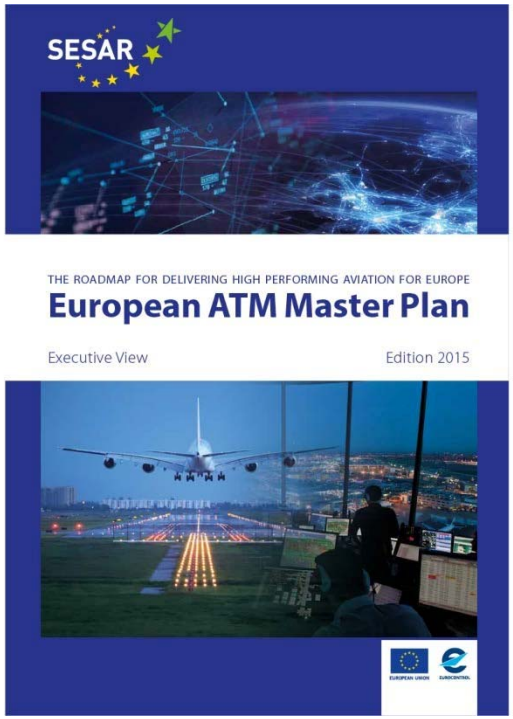



# SESAR Performance ambitions

- ✓ Consistent withICAO Framework  SES high-level goals
- ✓ Cross-readable with SES performance scheme

# What is the European ATM Master Plan?

## The roadmap driving the modernisation of the European ATM system



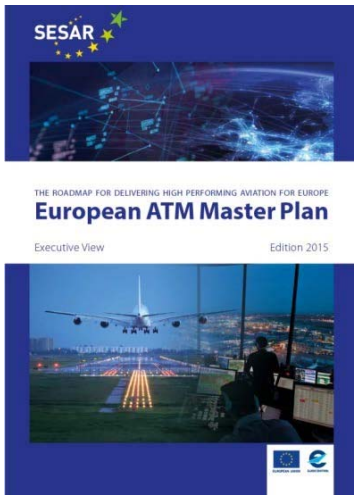

Level 1: Not just a paper exercise

Connecting R&D with deployment

Defining a Vision 2035+ and highlighting ways to achieve it

Driving at top level all EU funding priorities for both ATM development and deployment

# MP Outline overview




## WHY

Vision and Performance ambitions

## WHAT

Description and prioritisation of technical solution

## WHERE, WHEN & WHO

Deployment scenarios per stakeholders

## HOW MUCH

Investment needs

## HOW

Standardisation and regulatory roadmap

# European ATM Master Plan

Performance

Changes

Choices

One Direction

## Reference for:

- R&D — SESAR 2020
- Deployment — Common Projects

# MP: Enabling changes in ATM capabilities by 2035

## Automation of routine tasks

*Automation and use of data communication to ease & support staff workload*

## Integrated systems

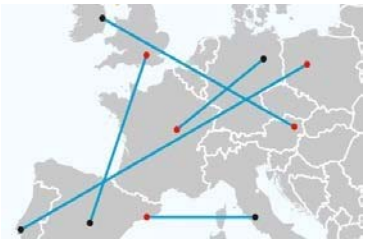
*Lean and modular systems, easily upgradable and interoperable*

## Integration of all vehicles

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

## Sharing of information

*Information shared digitally via common information platform*



## Flight-centric operations

*Air users fly their preferred, more direct route*

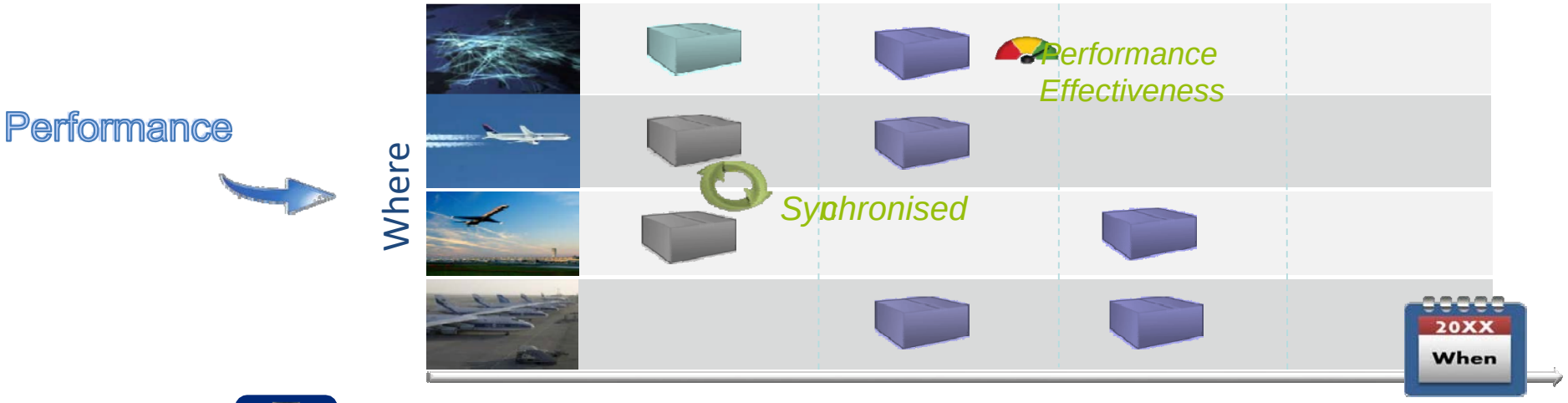
## Virtualization

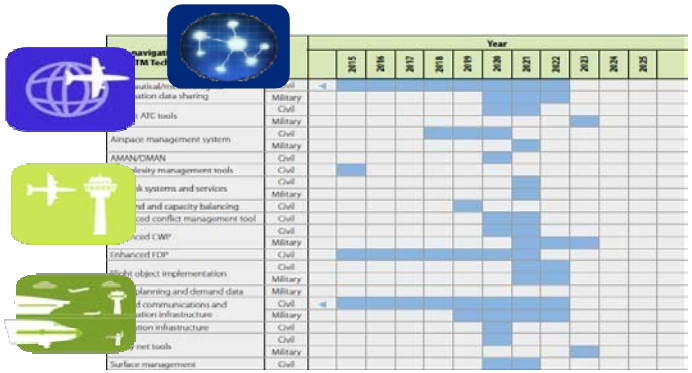
*Virtualization allowing dynamic capacity management*

# A simplified approach to Master Planning activities

- Every 3 / 4 years…/…
- Yearly, provide a snapshot of the progress of R&D and deployment

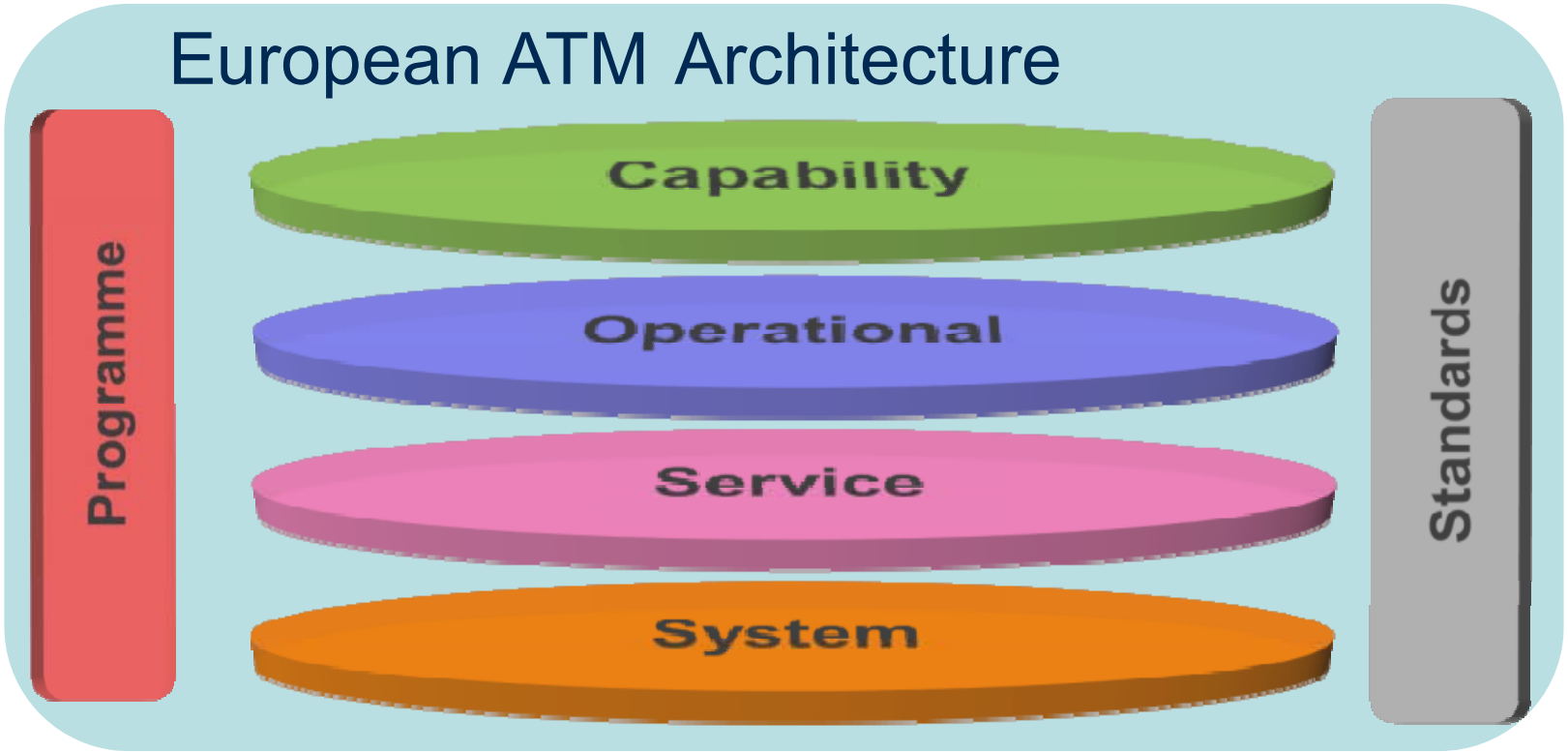
# Solution Deployment Scenarios



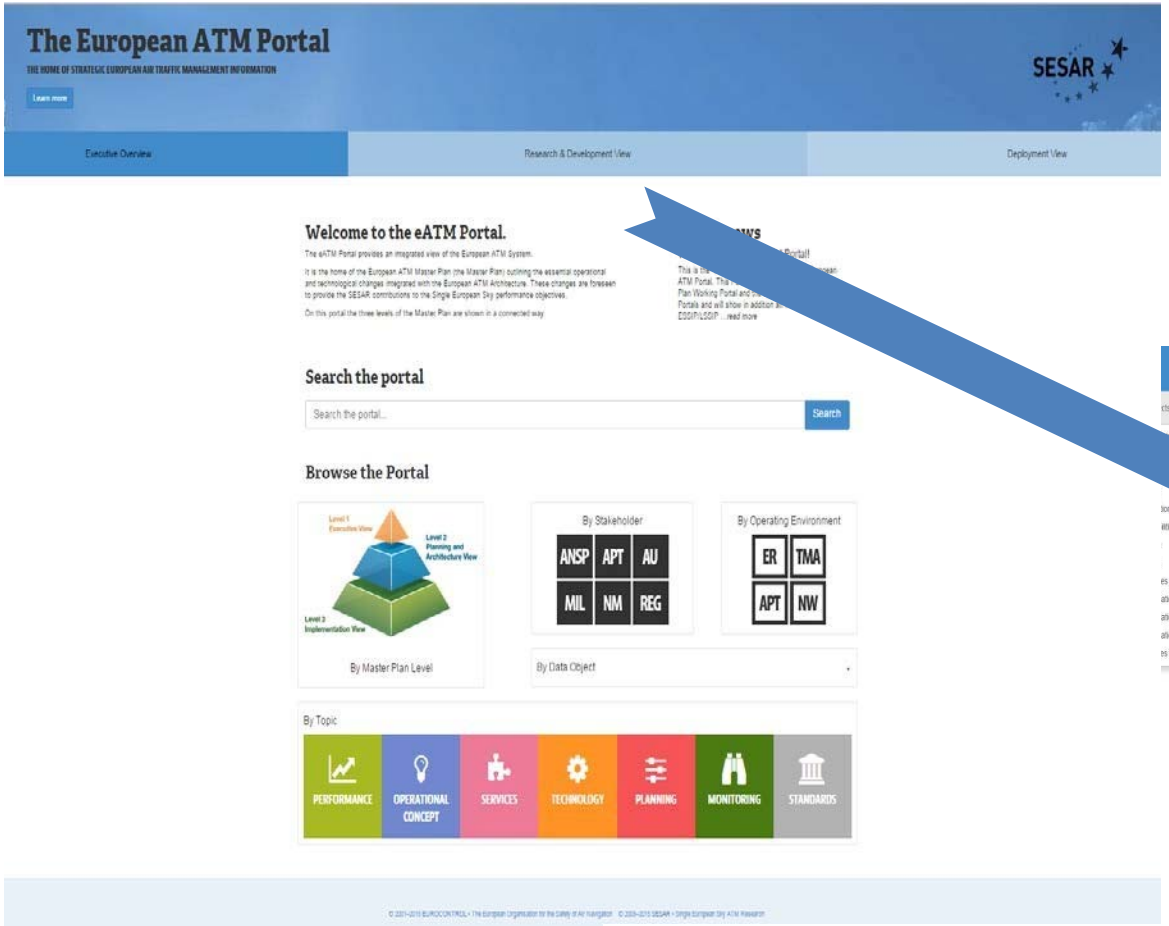



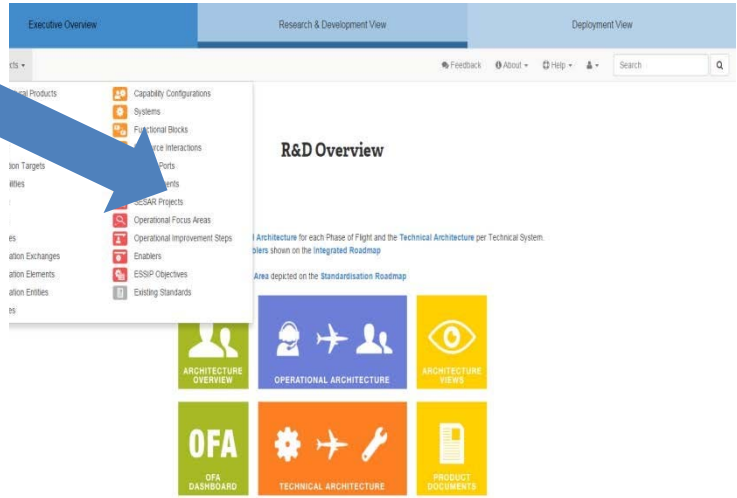
e.g. Roadmap per stakeholder
(Civil & Military)

# Level 2: Changes organised and described in



# HOW? … to see this?

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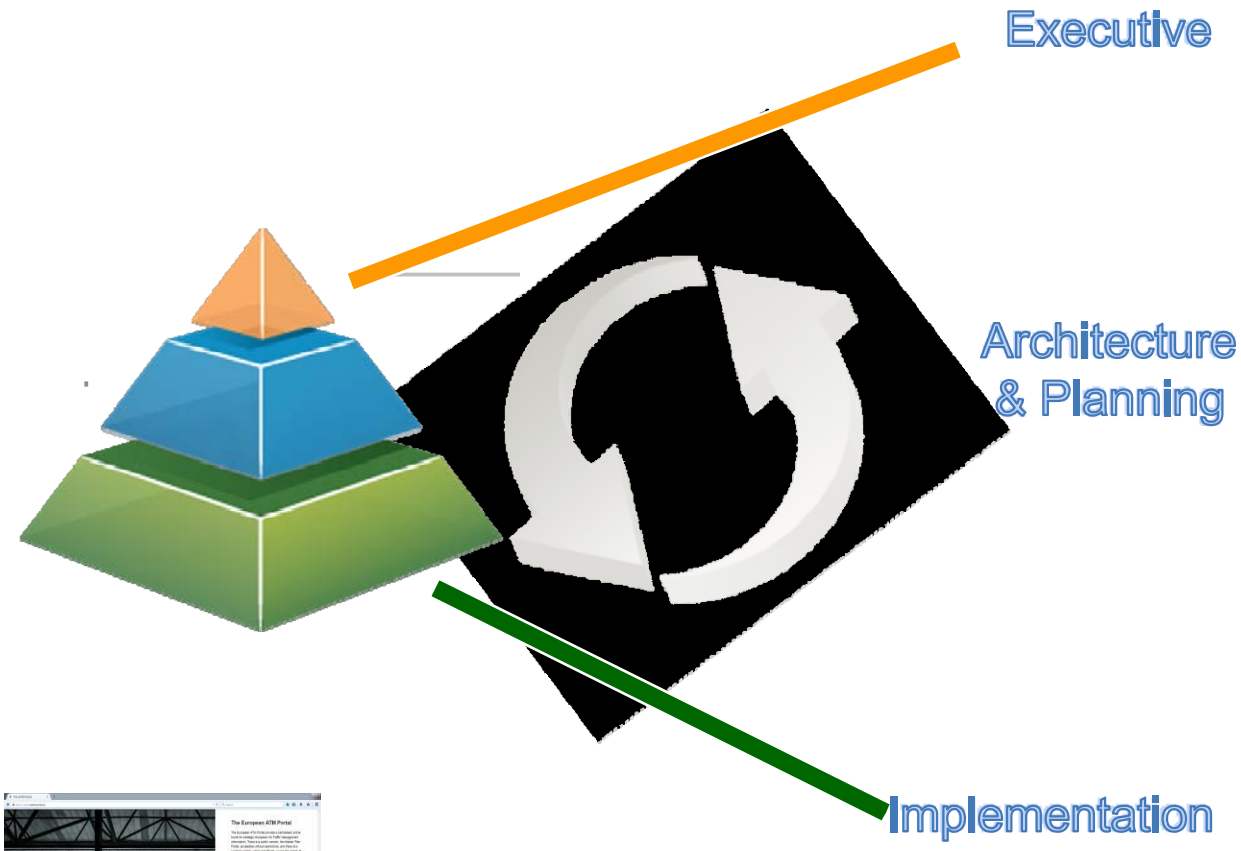
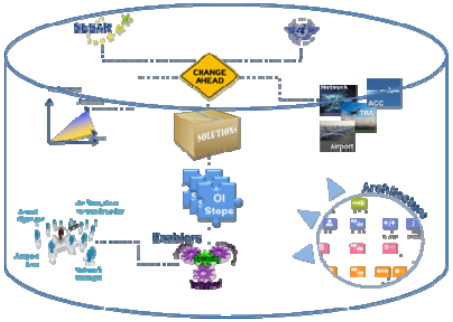
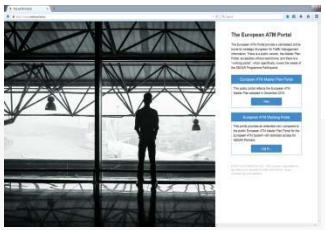
# The ATM Master Plan : three levels





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# Global landscape

SESAR

NextGEN

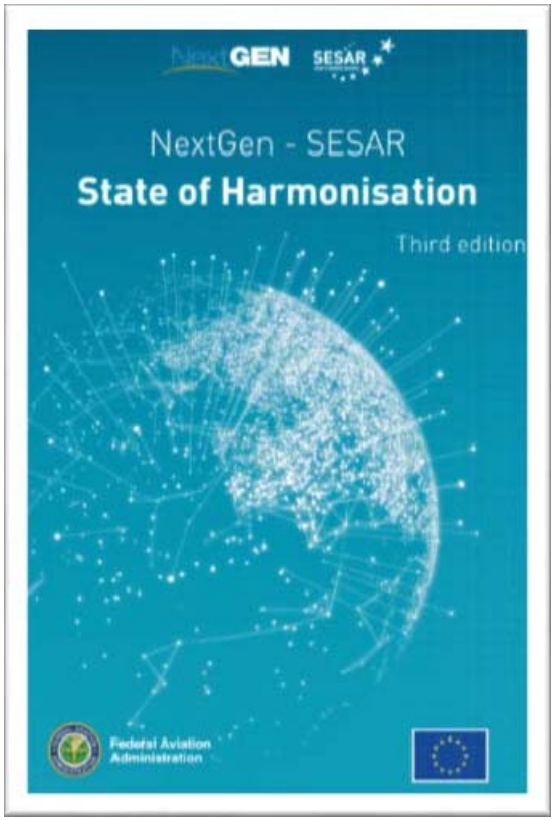
ICAO • OACI • ИКАО

**Global Air Navigation Plan**

**Other Regions**

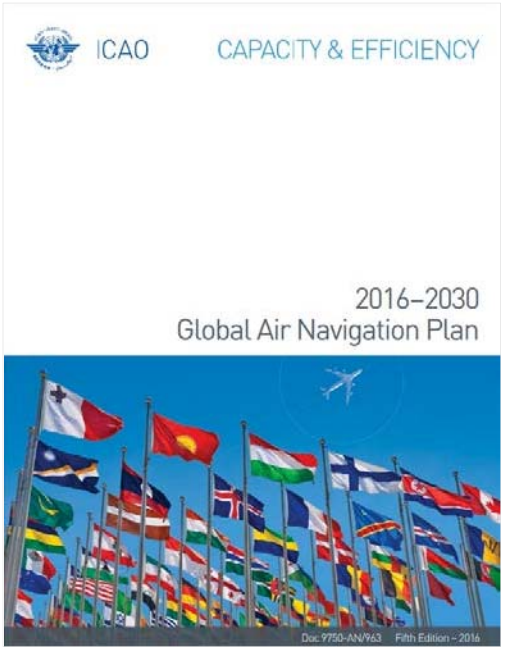
# U.S./FAA NEXTGEN – EU/SESAR STATE OF HARMONISATION

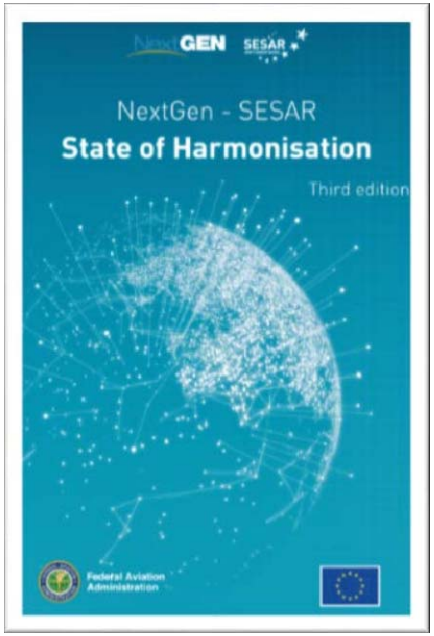
- National and regional planning and the ICAO GANP and GASP
- Harmonisation Risks, Issues and Opportunities Framework (HRIOM)
- Economic Impact Assessments, CBA´s, Business models
- Roadmap comparisons - standardisation, avionics, navigation etc.
- A/G Data Comm strategy - short/medium/long term
- SWIM Strategy – safe and secure applications of infrastructural services
- UAS/RPAS, New Entrants Integration – Automation model and technologies
- TBO and Integrated CNS and Spectrum (2019)
- Safety and Security Methodologies – Human Performance and Automation



# THE NEED FOR GLOBAL HARMONISATION AND INTEROPERABILITY

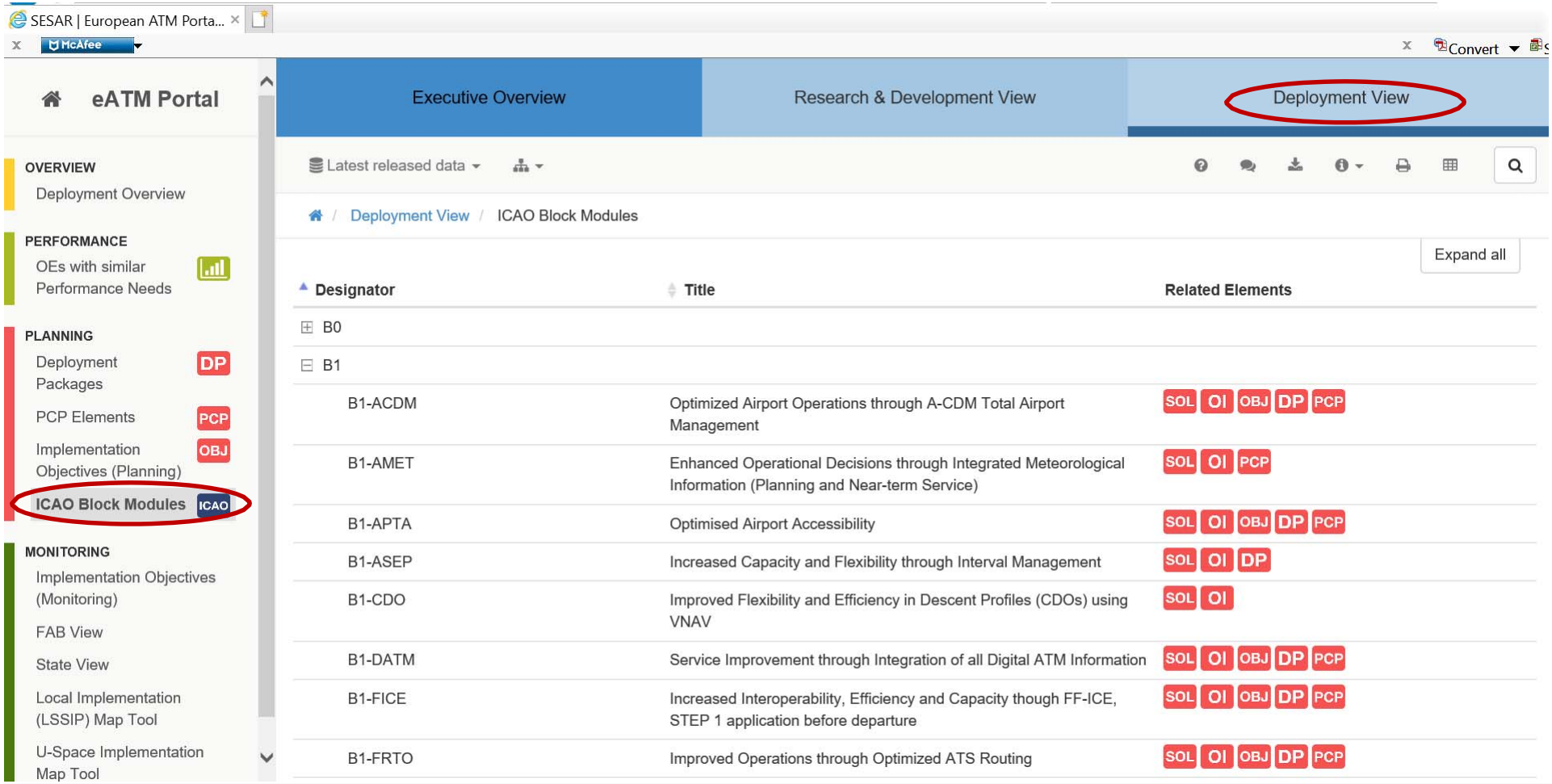
- Ensure that the same aircraft can operate in all systems
- Align strategic views of Aviation/ATM modernisation and its enabling asset capabilities/services
- Ensure common standards available and applicable when needed
- Increase operational and economic performance by sharing results and efforts



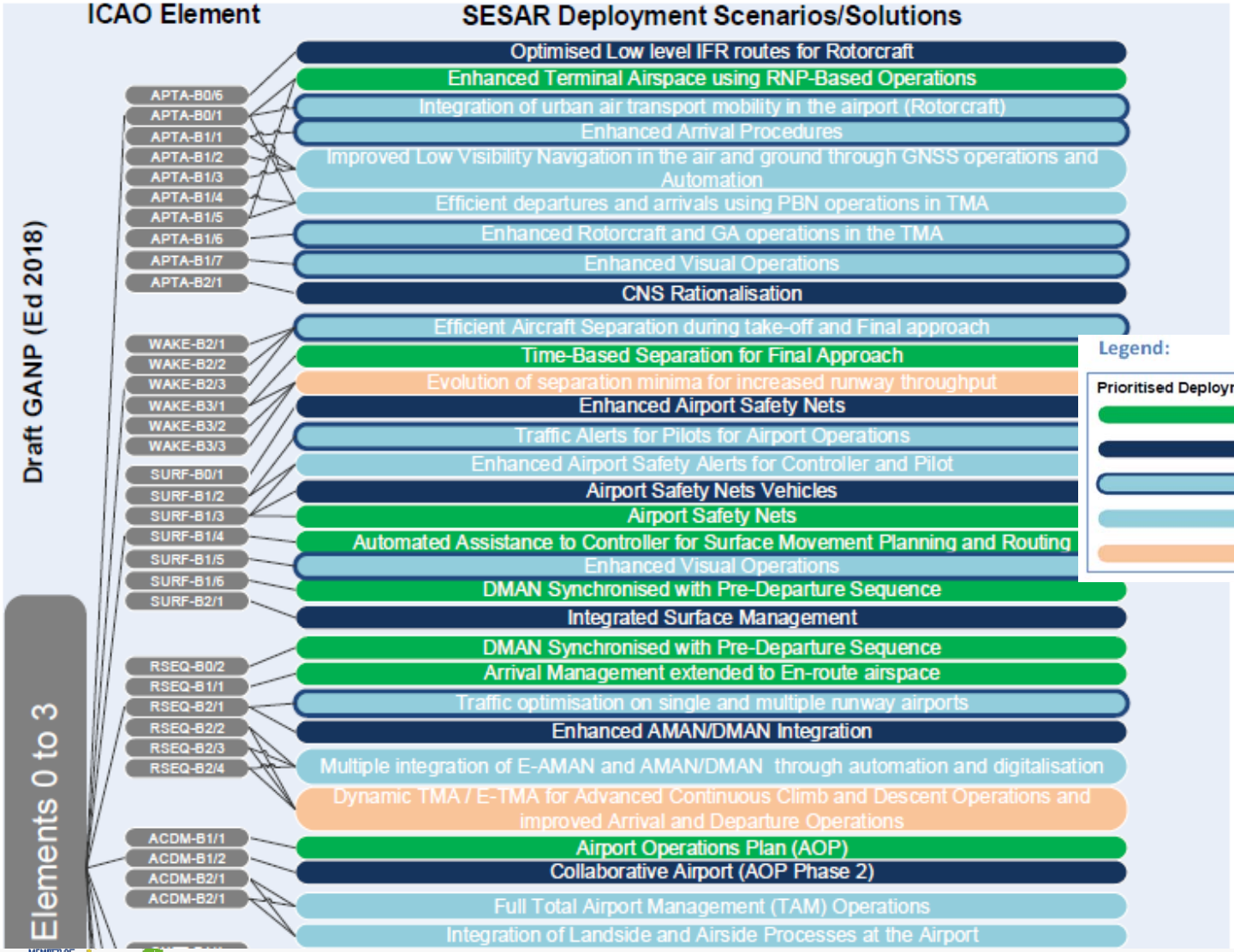
# Links to GANP2016

- currently in the ATM Master Plan portal



EUROCONTROL

## Figure 37 Mapping SESAR Operational changes – ICAO ASBU / Block Elements 0 to 3



# A consensual definition and prioritisation

EUROCONTROL

SESAR JOINT UNDERTAKING

European Commission

*Air Navigation Service Providers*

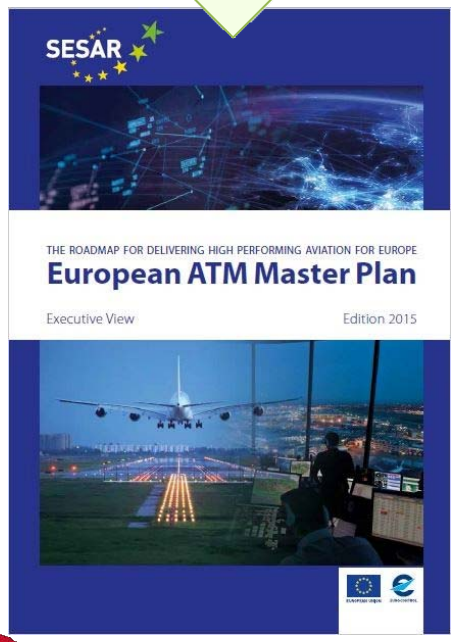
*Airspace Users*

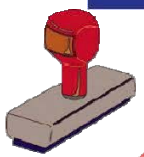
*Military*

*Network Manager*

*Ground & aerospace manufacturing*

*Airport Operators*



Performance

Business Case

performance
Master
Plan
SESAR
European
deployment
operational
SES
traffic
changes
Sky
air
Operations
Step
ATM
Key
View
Single
Concept
implemented
targets
basis
towards
achieve
Programme
phase
essential
document
timely
goals
development
required
first
dimension
edition
current
set
target
part
research
provide
technology
objectives
growth
Steps
initiative
needs
Management
strategic
providing

# Thank You