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European ATM Architecture



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European ATM Architecture

London

25 February 2014



Single European Sky ATM Research



Purpose of the European ATM Architecture



To aid
decision
making

Structure and Optimise R&D

Optimise deployment of SESAR concepts

European ATM Architecture (EATMA)



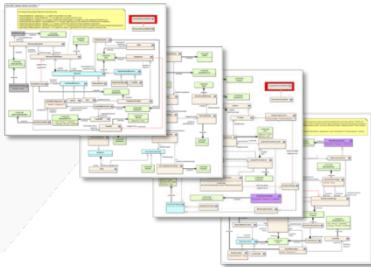
SESAR Programme
Guidance



European ATM Architecture (EATMA) Guidance Material



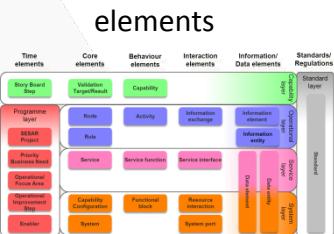
NATO Architecture Framework & TOGAF Specifications



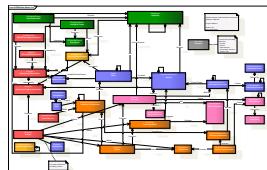
Adaptation

Implementation

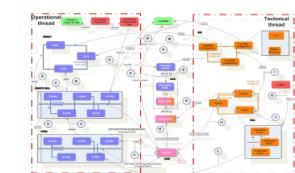
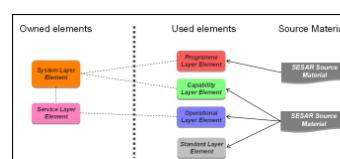
SESAR ★ EATMA Framework



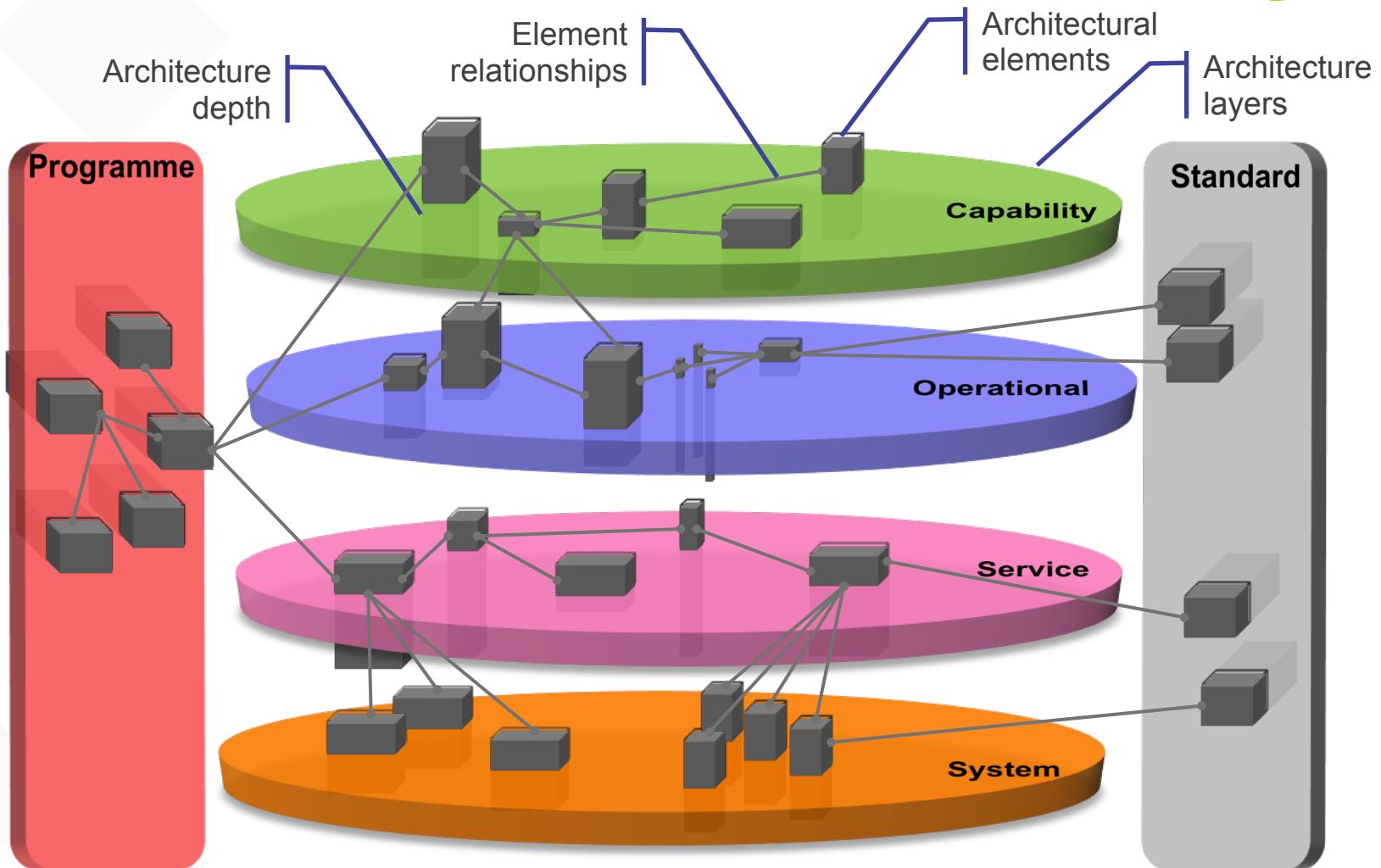
relationships/meta model



link to SESAR deliverables

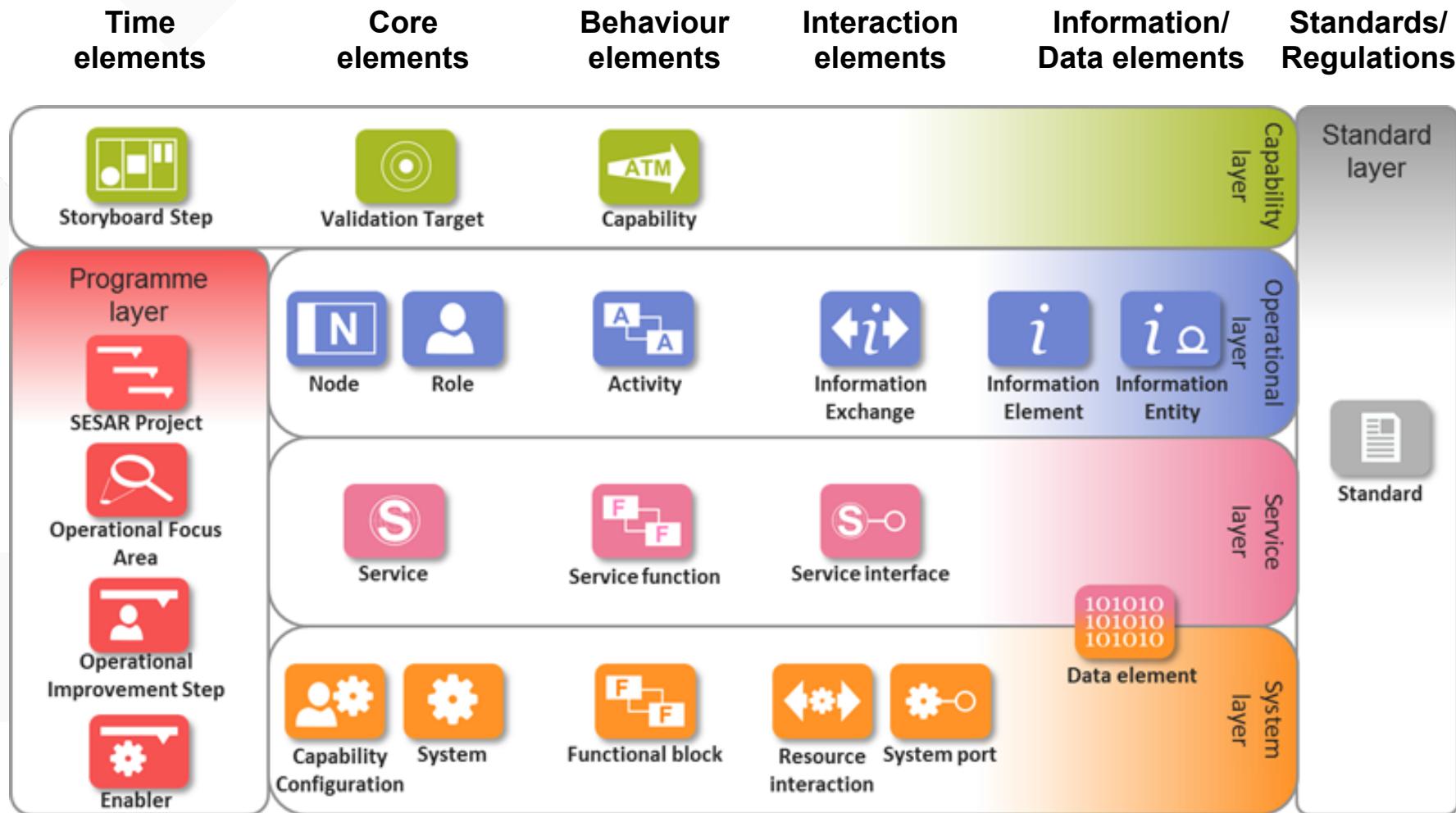


Architecture Building Blocks – High Level





Architecture Main Elements



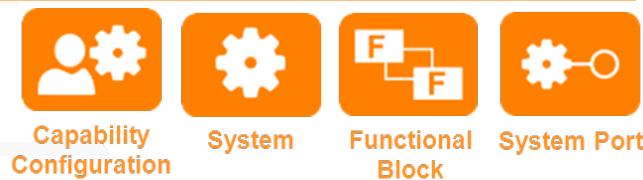
Change



Business

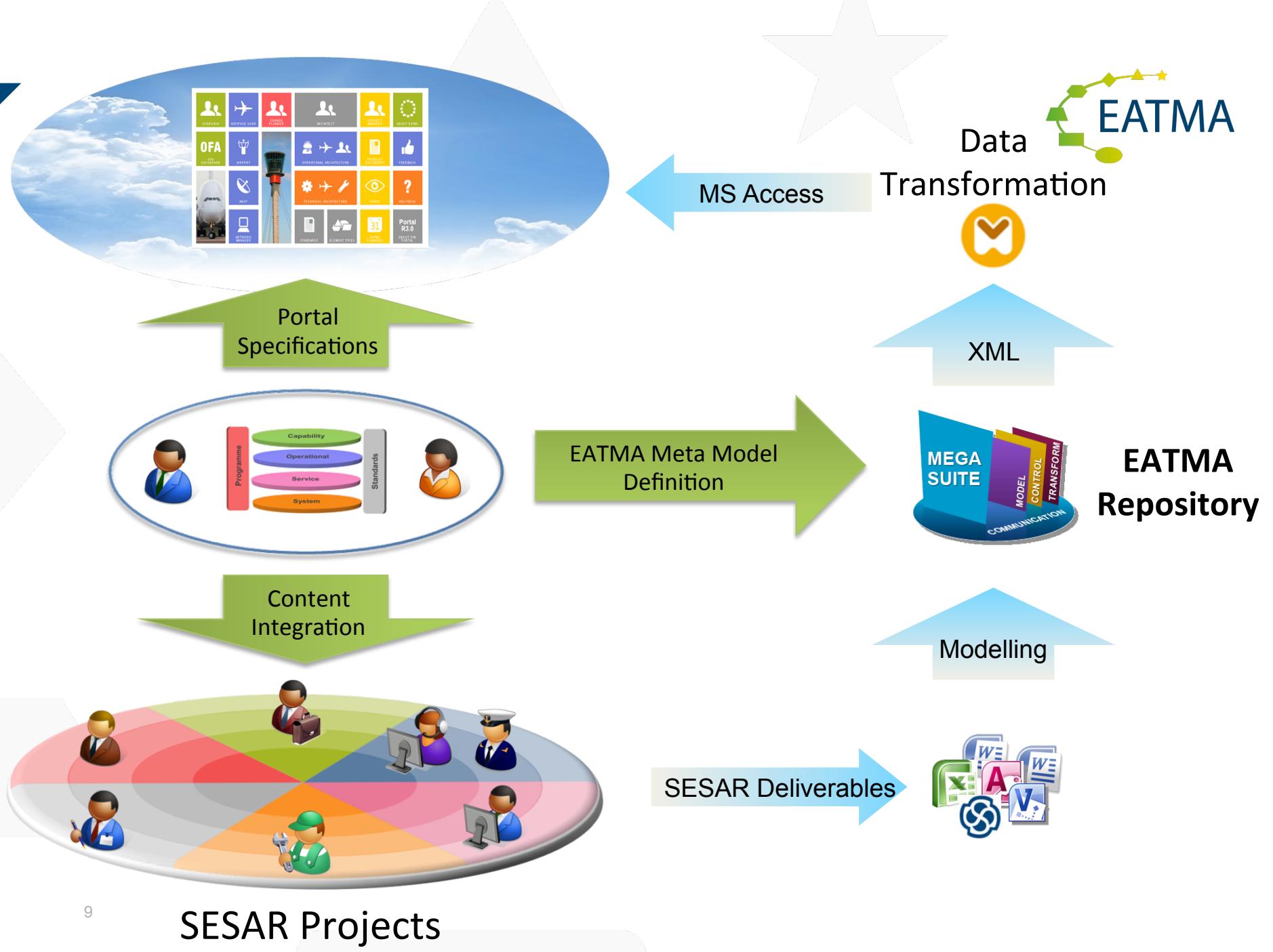


Operations



Systems / Resources

Information / Services



Duplications

Gaps

Inconsistencies

Options

Optimisation



Welcome to the European ATM Architecture portal

The European ATM Architecture (EATMA) Portal provides a web based presentation of the European ATM Architecture.

The portal is intended to be used primarily when developing the future ATM System and planning for its deployment and is developed as a part of the SESAR programme.

The EATMA portal currently contains only SESAR Story Board Step 1 information.

Attention: Current data is EATMA V3.0 Draft

[What's new →](#)



How EATMA is created →

• • •

 OVERVIEW	 AIRSPACE USER	 CHANGE PLANNER	 ARCHITECT	 PROJECT MANAGER	 ABOUT EATMA
 OPERATIONAL FOCUS AREAS	 AIRPORT	 ANSP	 OPERATIONAL ARCHITECTURE	 PRODUCT ELEMENTS	 FEEDBACK
 NETWORK MANAGER	 ANSP	 NETWORK MANAGER	 TECHNICAL ARCHITECTURE	 VIEWS	 HELPDESK
 STANDARDS	 ELEMENT TYPES	 EATMA PLANNING	 Portal R3.0	 ABOUT THE PORTAL	

Stakeholder sectors

- Airspace User
- Airport Operator
- Air Navigation Service Provider
- Network Manager

Operational Architectures

- CONOPS
- TMA Operations DOD
- Airport Operations DOD
- En route Operations DOD
- Network Operational DOD

Technical Architectures

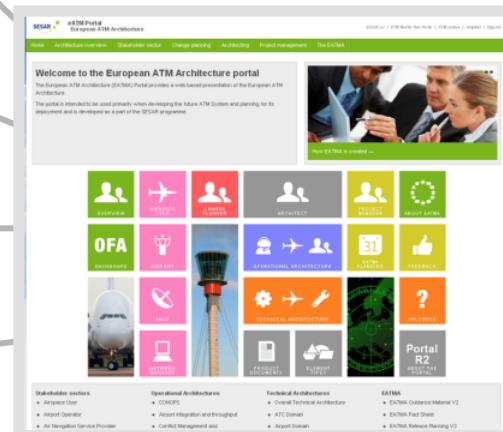
- Overall Technical Architecture
- ATC Domain
- Airport Domain
- Aircraft Domain
- Flight Operations Domain
- Network Domain

EATMA

- EATMA Guidance Material
- EATMA Fact Sheet
- EATMA Release Planning V3
- EATMA Portal R3



EATMA Portal - Viewpoints



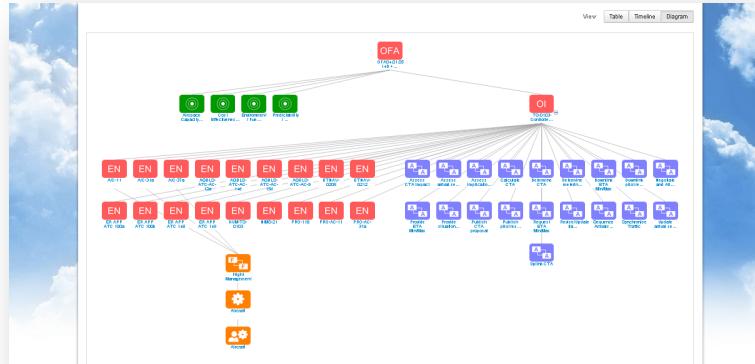
EATMA
Repository



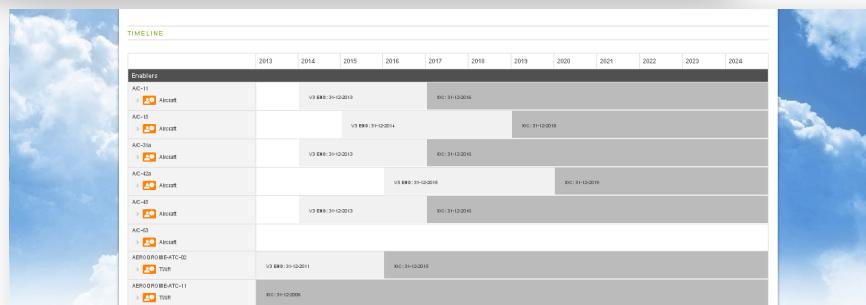
EATMA Portal – Presentations



Context Diagrams



Timeline Diagrams

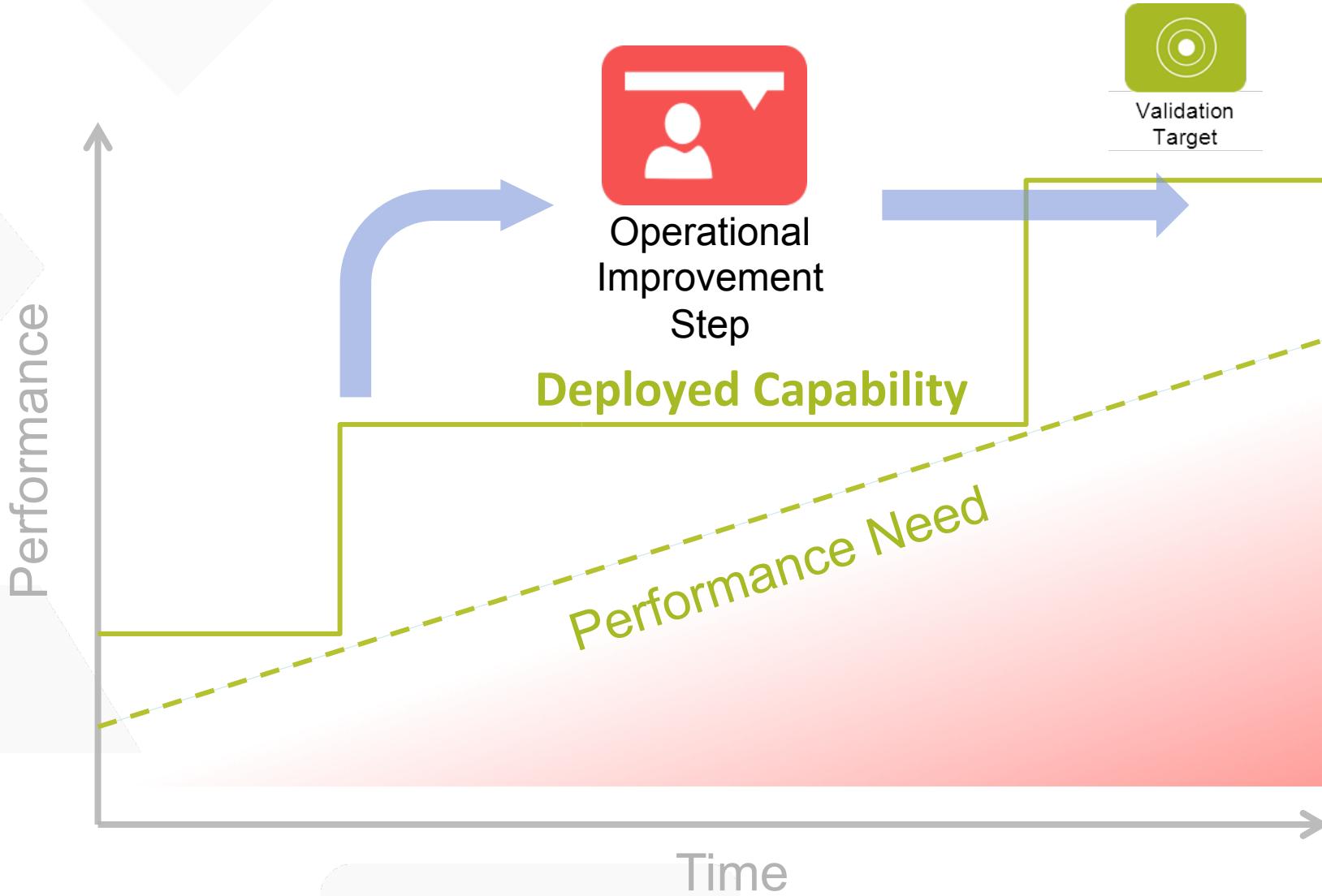


Tables

SYSTEMS	
NAME	DESCRIPTION
ADS-B Ground Station	Automatic Dependent Surveillance - Broadcast is a Surveillance technique which relies on aircraft broadcasting their position (calculated by on-board sensors) identity and other information derived from in-build systems. The ADS-B Ground station receives the 1090 MHz SIF signal from the aircraft and converts them to reports in ATCRBS format for onward transmission.
AERONET	The ADS-B is the application module.
ADS-B Radar Approach (ADS-B RA)	ADS-B Radar Approach (ADS-B RA)
ADS-B for Aircraft-Derived Data (ADS-B ADD)	
AERONET	
ATC/OCDC DataLink Radio Station	
ATC/OCDC Voice Radio Station	
ATM/NET Infrastructure	
PURPOSE	
Content	
Interface	
Stakeholder	
Implementation	

Architected Programme by WPB

Improving Performance



Managing Change in EATMA



Operational Focus Area
Airport Safety Nets

Operational Improvement
Enhanced Runway Usage Awareness



OFA01_02.0

