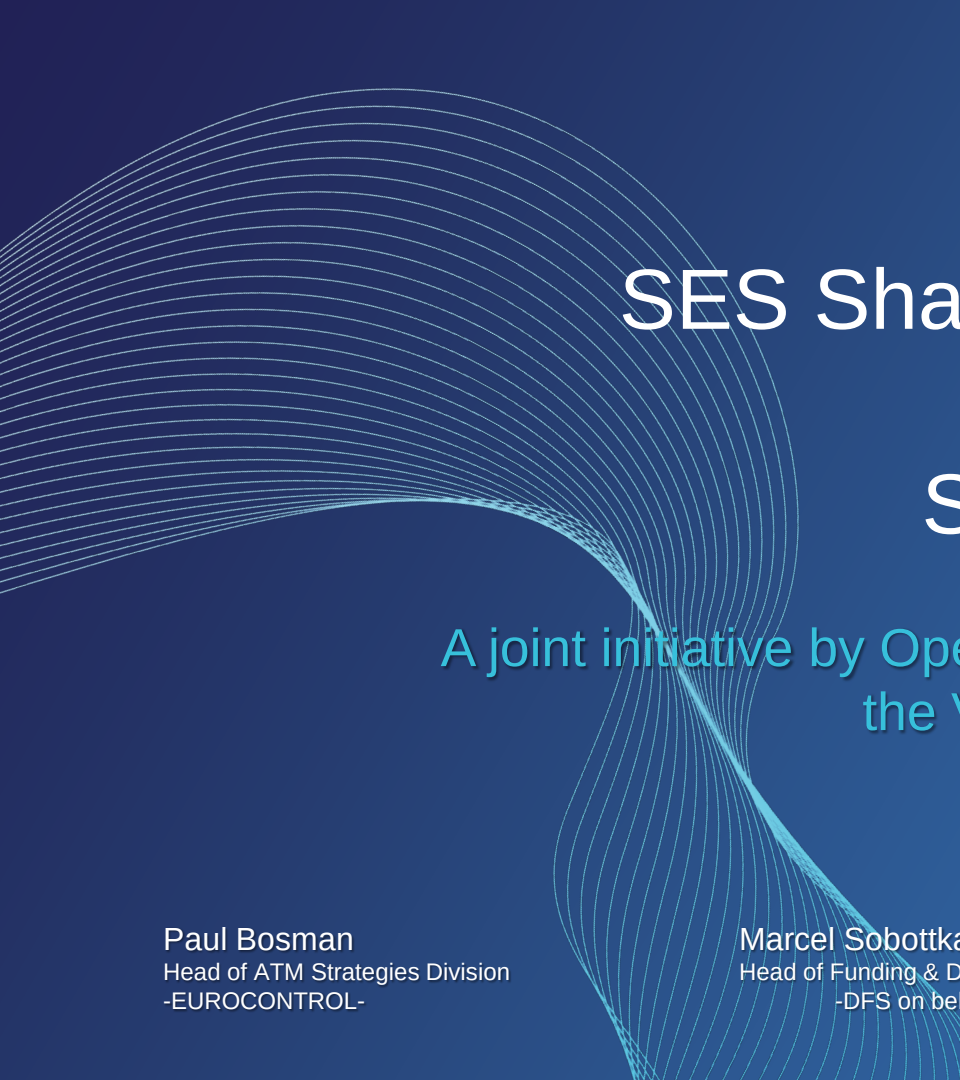




EUROPE^{FOR} AVIATION

SES Shared Services Alliance governing the SES Digital Backbone

A joint initiative by Operations for Operations supporting
the Vision of the Single European Sky

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SES Shared Services Alliance governing the SES Digital Backbone

- ✓ Buy-in from operational stakeholders is pre-condition for effective and efficient SESAR innovation cycle
- ✓ Need for strong idea's and broad support for deploying them

3SA-SDB: The initiative until now

- ✓ 01/10/18: A6 Alliance of ANSPs & Eurocontrol published a White Paper on the SES Digital Backbone (SDB) and its SES Shared Services Alliance (3SA) governance through operational stakeholders
- ✓ 05/04/19: SESAR Deployment Manager together with A6 Alliance of ANSPs and EUROCONTROL undertake a Workshop for all interested stakeholders to openly and jointly mature the initiative further
- ✓ until April 2019: Dedicated briefings and information exchange for interested operational stakeholders to join initiative



Towards collaborative governance of the Digital Backbone for the SES

White Paper

Executive Summary

This paper explores the establishment of an alliance, called **SES Shared Services Alliance (3SA)**, and formed by and open to all European ATM operational stakeholders (including Network Manager and MUAO) and with EUROCONTROL Agency support, for jointly setting up and governing the **SES Digital Backbone (SDB)** and its components.

Building from the NewPENS experience, this paper proposes NewPENS, Data-Link Services (DLS) and System Wide Information Management (SWIM) as the first SDB components under the remit of the 3SA.

Why this white paper?

To follow emerging operational stakeholder needs, they must increasingly rely on automated sharing, merging and presenting of information from diverse sources, i.e. "digitalise" their businesses. By nature, ATM will always use diverse data exchange technologies. However operational staff should not be disturbed by IT technology change but simply get access to better information.

To achieve this in a coordinated manner, the underpinning ATM data exchange infrastructure should be managed as a coherent "**SES Digital Backbone**". In order to involve all operational stakeholders and to accelerate the implementation of the ATM Masterplan vision, A6 Alliance and EUROCONTROL offer this white paper for wider discussion.

What is at stake?

The inter-organisational digitalisation of European ATM. In particular, in the process of setting up such shared digitalisation, important decisions have to be made, such as which stakeholders can access operations-grade information by what means, as well as which technologies are introduced and when. These decisions will define the digital ATM service market in Europe.

It is essential to recognise that this discussion must address all technical components required to get information into the right places, from wire to ATM system component. Therefore the community should further build on the good experiences of NewPENS as well as on the work that is being developed in the frame of the ongoing DataLink and SWIM Governance Implementation Projects. The present whitepaper refers to this overall set of components as the "**SES Digital Backbone**" (SDB) of operational ATM.

Why will the European ATM stakeholders end up having a single SES Digital Backbone?

Similar to other industries, European ATM stakeholders are becoming more information-dependant on each other. The ATM Masterplan shows a clear vision of digitalisation, automation and virtualisation. Remote Towers, ATM virtual centre and drones are all clear examples of the digital

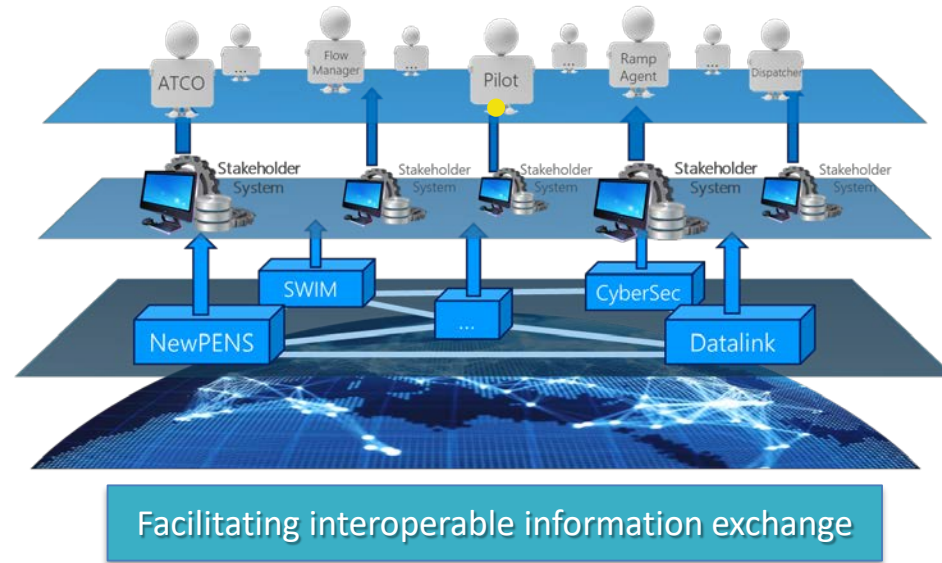
Towards collaborative governance of the Digital Backbone for the SES

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The SDB enables end-to-end digitalization of ATM

The Opportunities

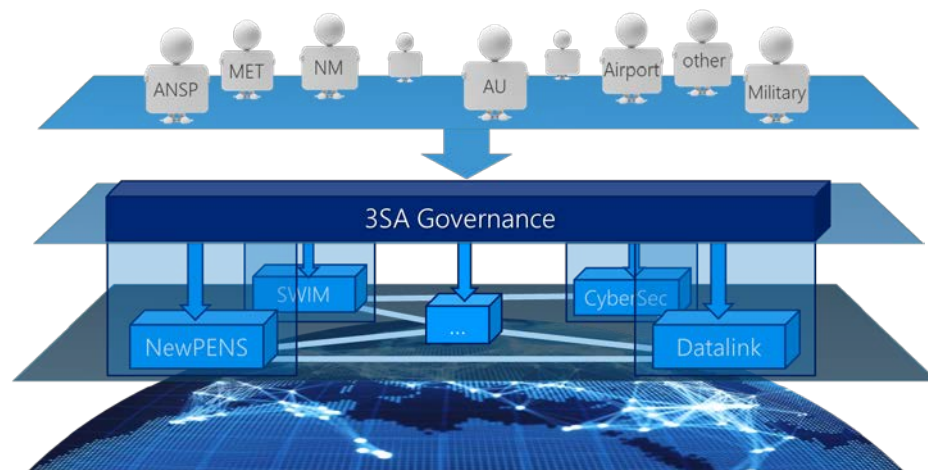
- ✓ ATM Digitalisation and interconnection of operational stakeholders is key for increasing capacity and efficiency
- ✓ Data distribution in SDB components enable the transition to the Airspace Architecture Study as means of technical defragmentation
- ✓ Accelerated digitalisation fostering synergies amongst SDB components
- ✓ Addressing common safety, security, interoperability and resilience needs



The 3SA enables trust for managing the SDB

The Opportunities

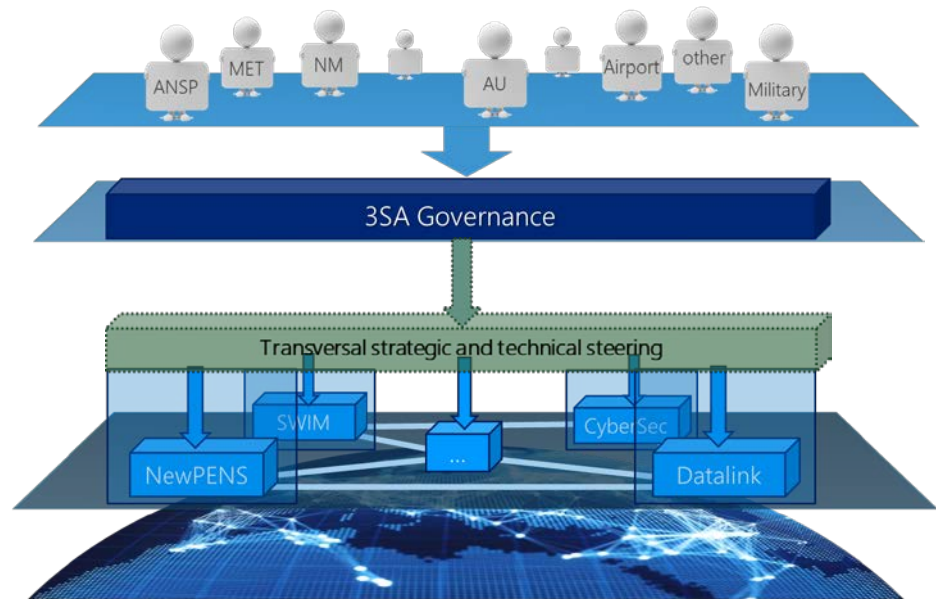
- ✓ A shared governance framework to foster the added value of the SDB
- ✓ Joint management and evolution of common digital ATM components
- ✓ Providing common Trust
- ✓ By Operations for Operations
- ✓ Ensuring Competition, Fair Evolution, Responsibility and Agility
- ✓ Economies of Scale – Commonly procured
- ✓ Voluntary participation

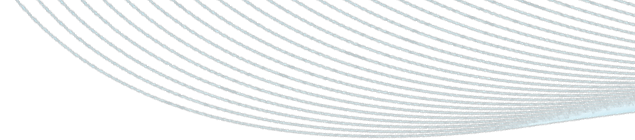


How could 3SA foster synergies in the SDB?

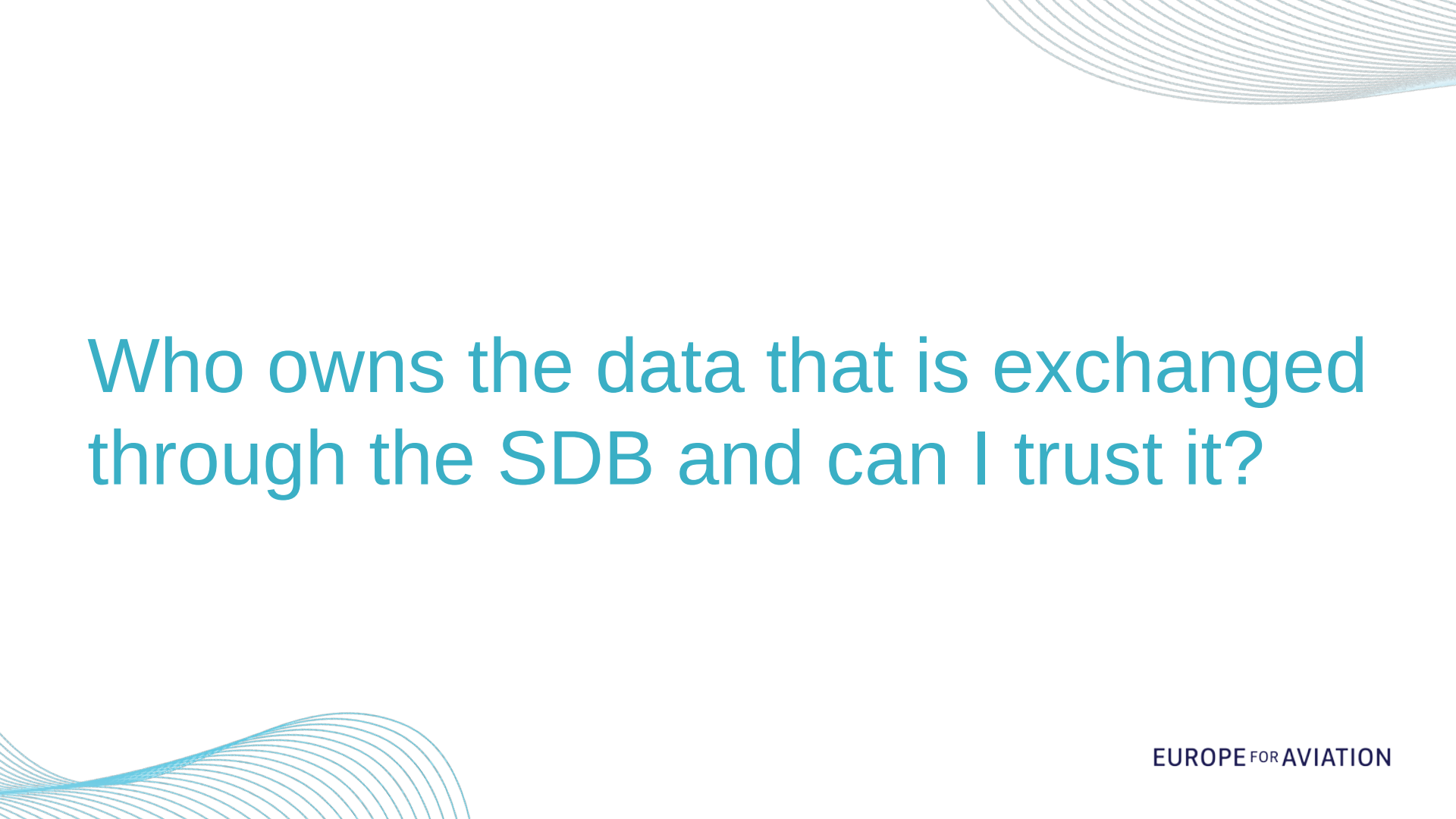
The Opportunities

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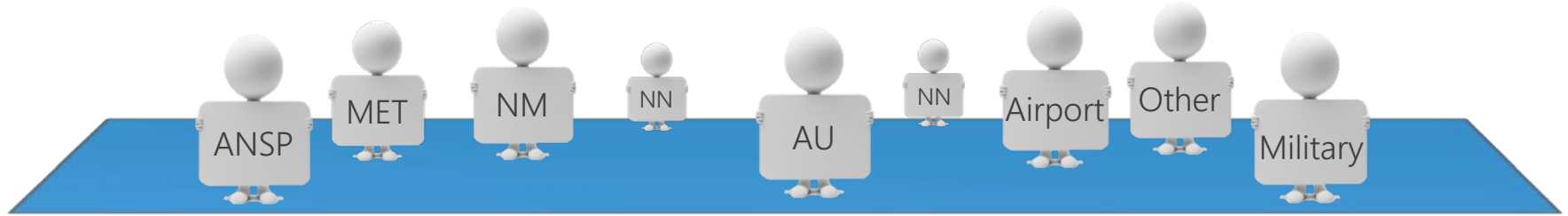


Is the 3SA-SDB a EUROCONTROL and A6 Alliance Initiative?



Who owns the data that is exchanged
through the SDB and can I trust it?

Questions & Answers Session



What?

SES Digital Backbone (SDB)

How?

SES Shared Services Alliance (3SA)

Join us in moving digitalization forward!

- ✓ Join us in shaping the digital backbone to your needs, as SES DB is certainly a silver bullet for accelerating the SESAR innovation cycle!
- ✓ Join us! April 5th in Brussels: SDM workshop on SES DB – 3SA initiative; information @SDM website