



Partnering
for excellence
in global
aviation



World ATM Congress 2017

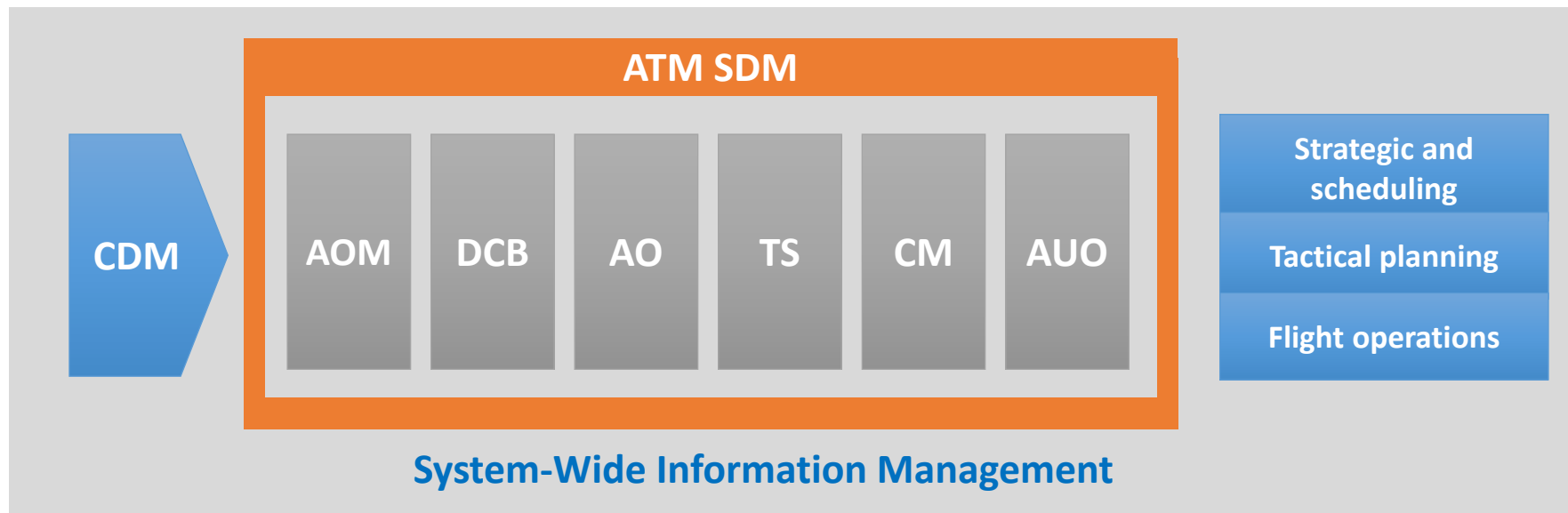
Operated by CANSO in partnership with ATCA

Information sharing

Moderated by Ruben Flohr,
SESAR Joint Undertaking



Global ATM concept



CDM – Collaborative decision making

ATM SDM – ATM Service delivery management

AOM – Airspace organization and management

DCB – Demand/capacity balancing

AO – Aerodrome operations

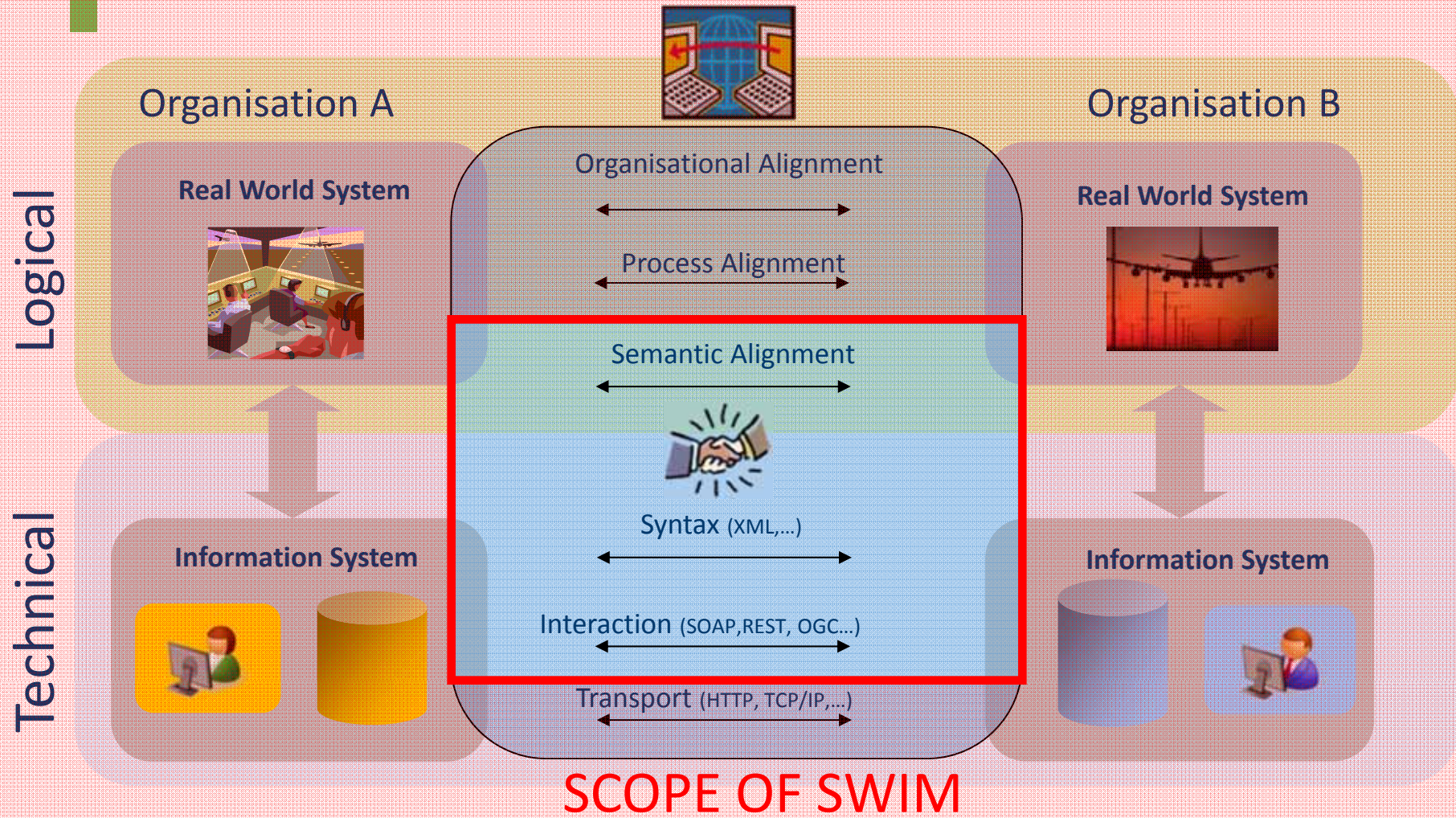
TS – Traffic synchronization

CM – Conflict management
* *Strategic conflict management*
* *Separation provision (SEP)*
* *Collision avoidance*

AUO – Airspace user operations

TBO – Trajectory based operations

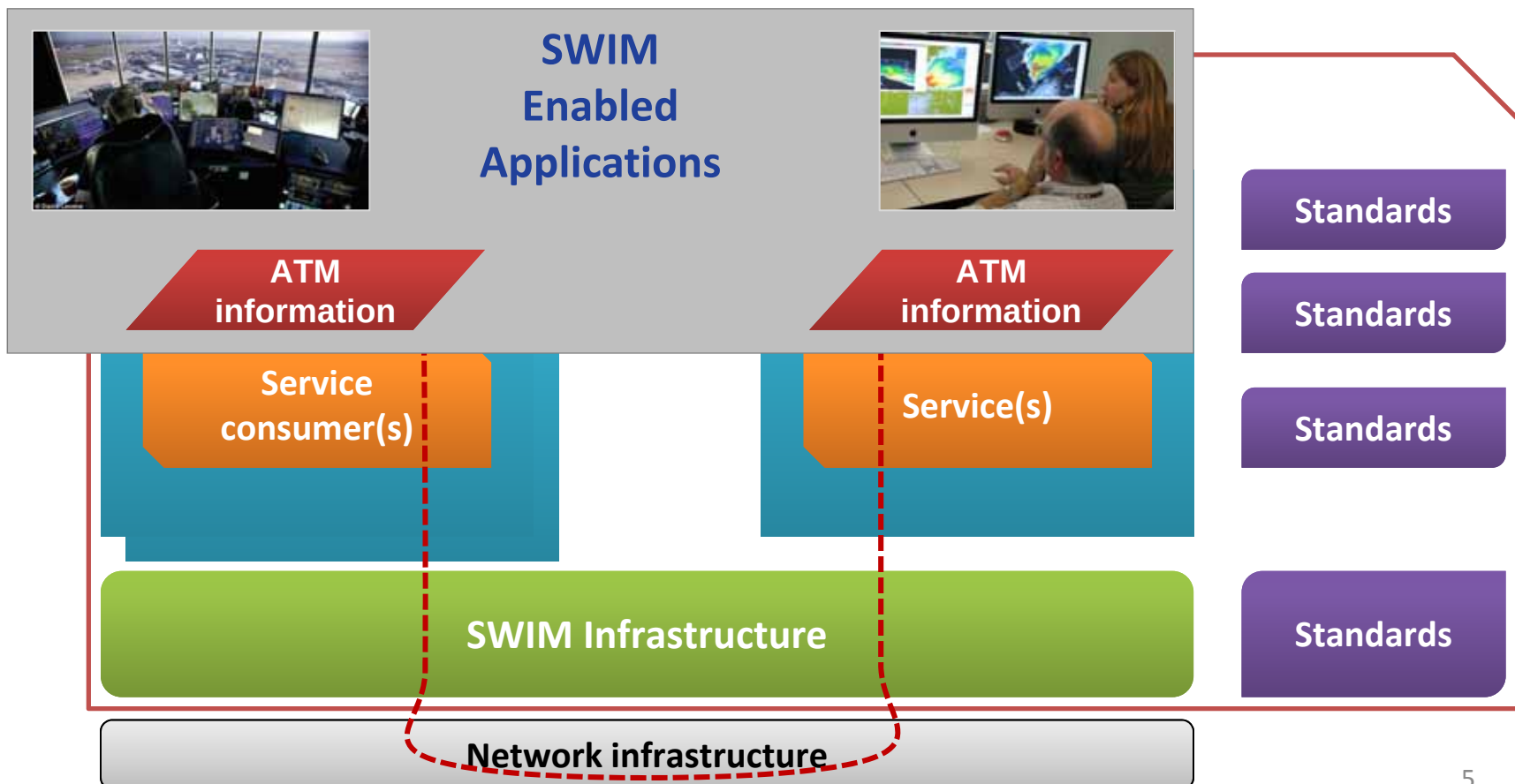
Interoperability



SWIM definition

SWIM is not (just) a set of services, but rather the future way of service development

SWIM consists of **standards, infrastructure and governance** enabling the management of **ATM information** and its exchange between **qualified parties** via **interoperable services**.



Characteristics

Easy access to information

- Multiple ATM stakeholders
- Offer and consume ATM information from each other
- Easy to connect

Provider and consumers build on trust

- All involved parties can be trusted (authorized entities only)
- Exchange mechanism can be trusted (secured, reliable, on-time)
- No abuse of information (adequate access control)

Cost reduction in ATM evolution

- Cost proportional to required performance level
- Future changes shall be faster and cheaper



Panel

- **Rosalind Lapsley**
Aviation Coordinator (EUMETNET)
- **Andy Woollin**
Flight Planning and B2B Services Domain Manager (NM)
- **Heiko Teper**
Deployment Program Realisation Manager (SESAR DM)
- **Stephane Dubet**
Head of Research and Development (DSNA)
- **Dennis Hart**
Head of System Wide Information Management Unit (Eurocontrol)
- **Aniello Napolitano**
Program Manager SESAR ATM Business Area (Leonardo)



Questions and answers



Timeline

Impacts

Global

Cybersecurity

Standardisation

Provider / Consumer

Challenges

Deployment Funding

Air / Ground

ICAO

Best practices

Benefits

Research

Plans

EUROCAE

Experiences

Service access

Business case

Governance

What's missing



**Thank you
for your attention**

More information:
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Benefits

Business perspective

- Agility in future evolution
- Flexibility in global uptake
- Global interoperability, common methods and standards
- Cost efficiency by service oriented architecture
- Secured information

Operational perspective

- Enables ASBUs (XMAN, A-CDM, FF-ICE, TBO, ..)
- The right information at the right time (filtering, alerting, visualisation)

Technology perspective

- Re-use of code, rapid development
- Re-use of services
- Common standards
- Collaborative environment (Common Components)

