

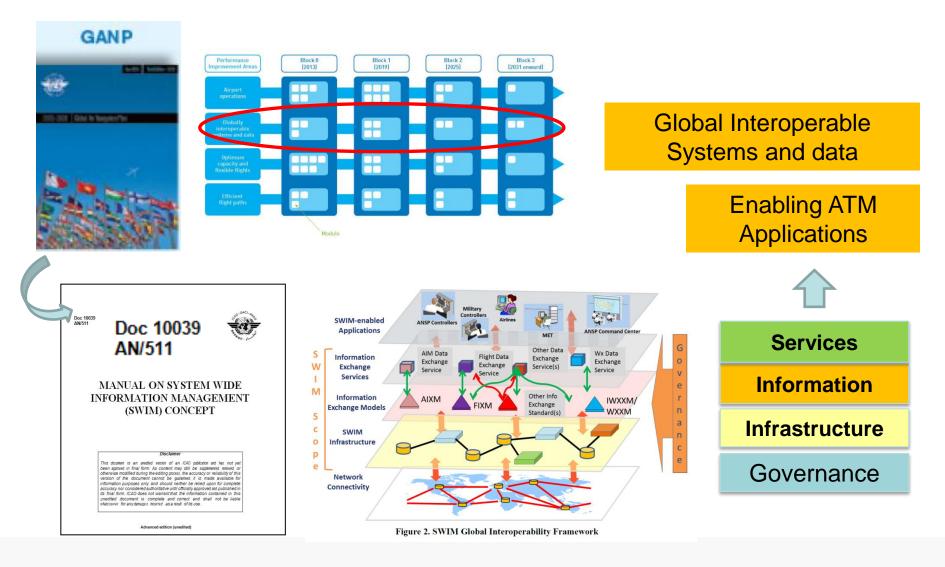
SWIM in SESAR "State of Play"

ICAO SWIM Workshop Bangkok 16/05/16

Pedro Fernandez EUROCONTROL

Alignment with ICAO



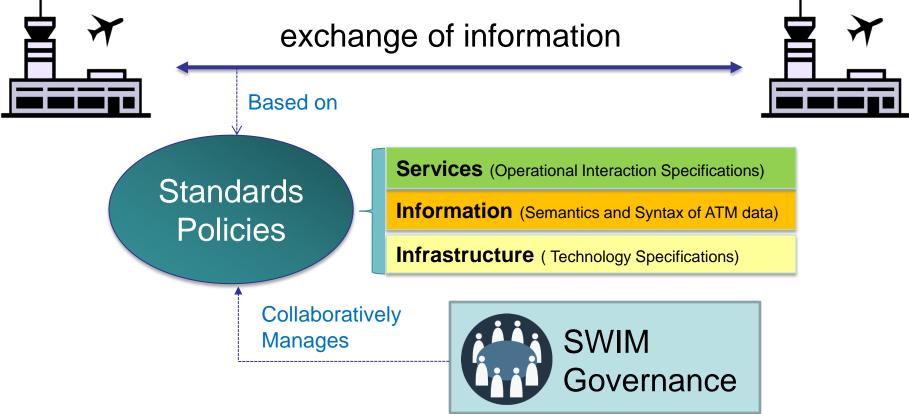


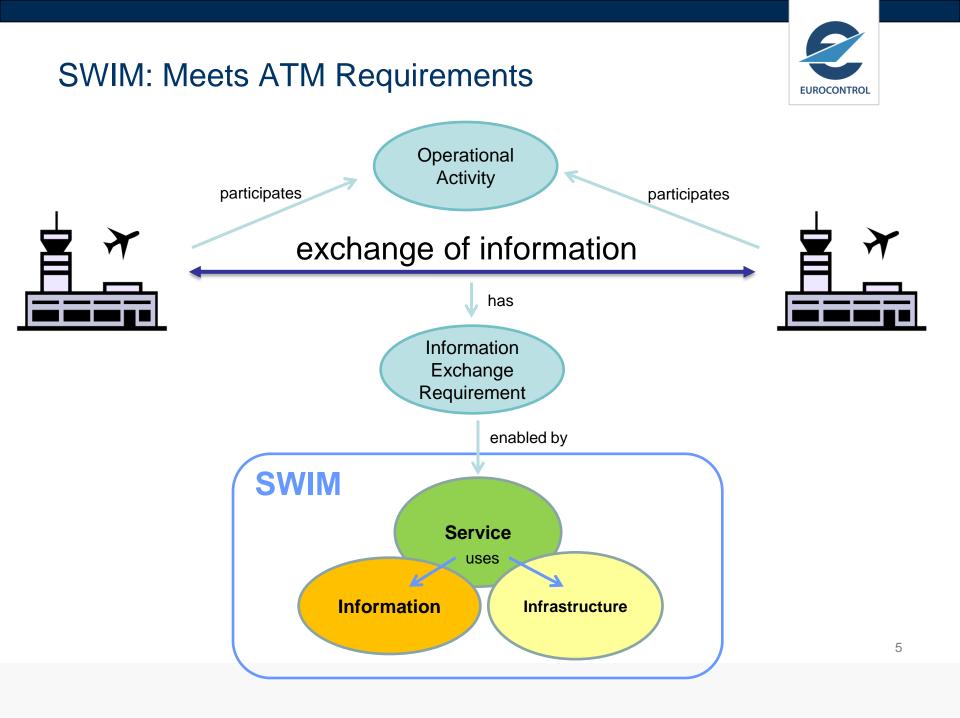


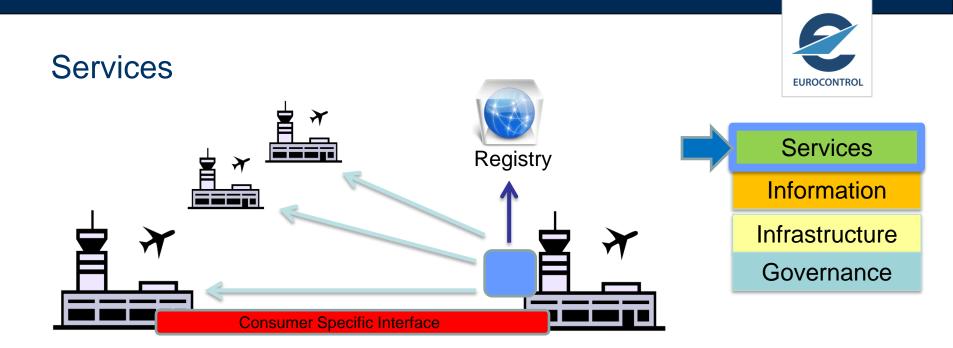




More Information Shared, Lower Cost, Higher Trust







- Service Oriented Approach (Widespread Design Method)
 - Loose coupling, Reusable
 - Standardized contract
 - Interface: Operations, Messages
 - Access Mechanisms
 - SLA
 - Discoverable (Registry)
 - Business Relevant (Traced to operational activities)
 - Based on Information Exchange Requirements

Services Registry



1000+ Users



SWIM Community 📝 🚱

Home



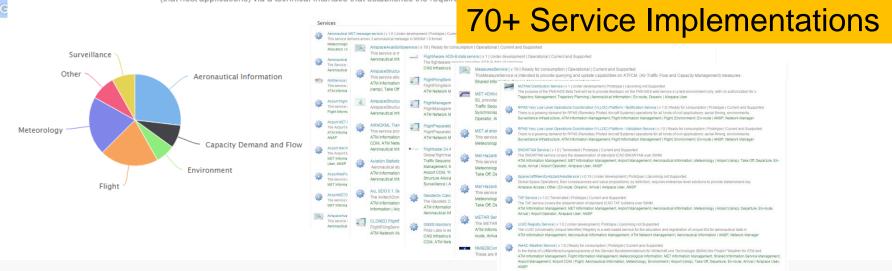
100+ Organizations

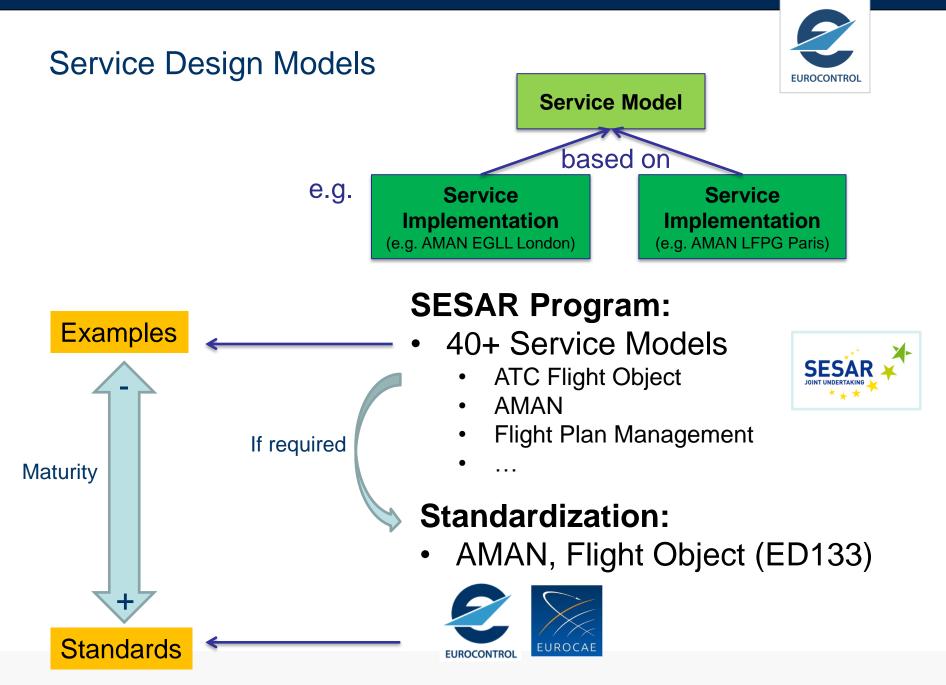
Services 🛛 🐼 🚱

Home



This is an overview to the SWIM service implementations registered by the service providers. A service implementation is a deployed instance of a service that enables the execution of an action on a system (e.g. record a flight plan) or the access to information (e.g. weather forecast). It is provided by an organization that supports it committing to a certain level of quality (e.g. availability) and states the conditions that regulate the relationship with the consumers. It is enabled by software installed on a computer reachable remotely over a network by other computers (that host applications) via a technical interface that establishes the require





Information



Services Information Infrastructure Governance

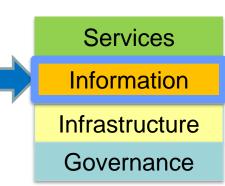
<u>AIXM</u> global adoption Digital NOTAM	<u>WXXM</u> I(CAO)WXXM Data is coming	FIXM ATMRPP AB to CCB V4(9/16) Stable Release	<u>Others</u> AIDX, AMDB, Asterix,
AIRM			
Consistent semantics across information domains			

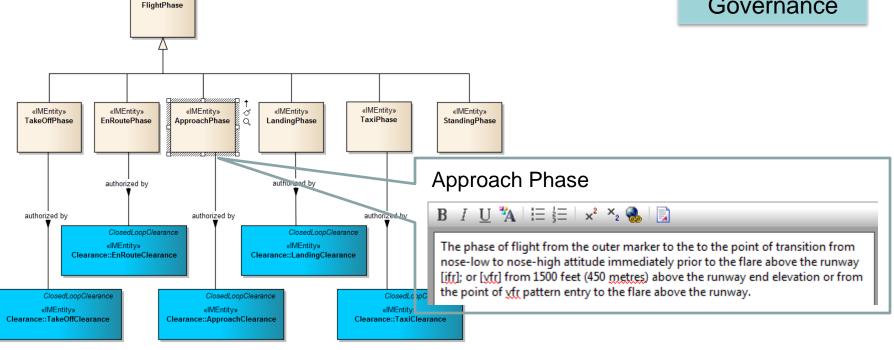
Information



AIRM Model (Semantic Interoperability)
e.g. Flight Phase in AIRM

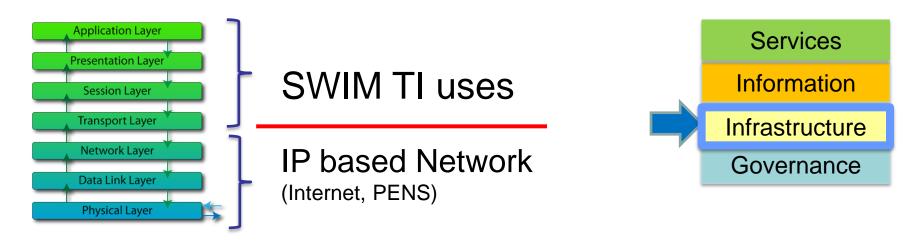
«IMEntity»





Technical Infrastructure





Functionality:

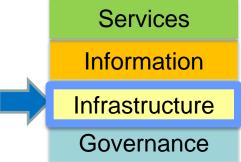
- Messaging (e.g. Distribution, Routing, Transformation,...)
- Security
- Recording,
- Supervision
- ...

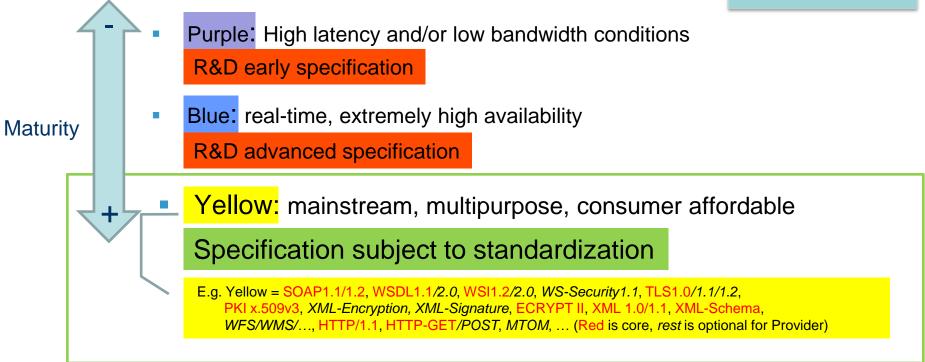
Infrastructure



"One size does not fit all": TI Profiles

TI Profile: Infrastructure requirements including transport protocols

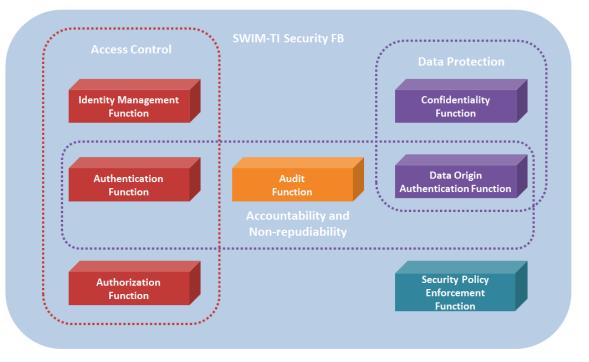


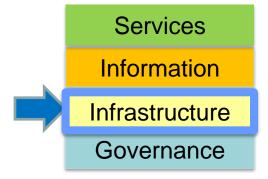


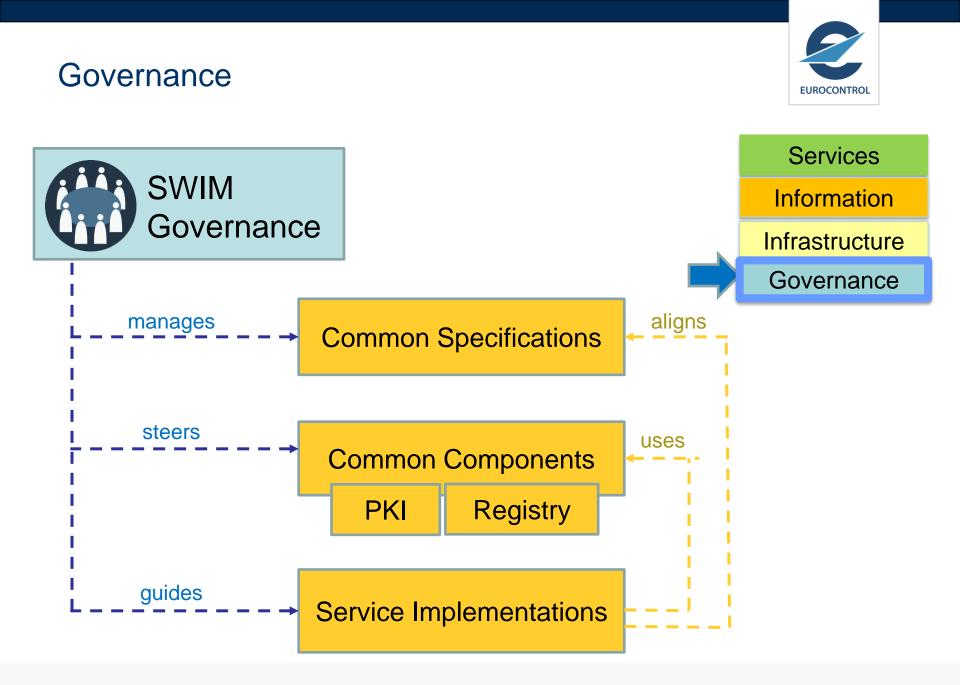
Infrastructure Security

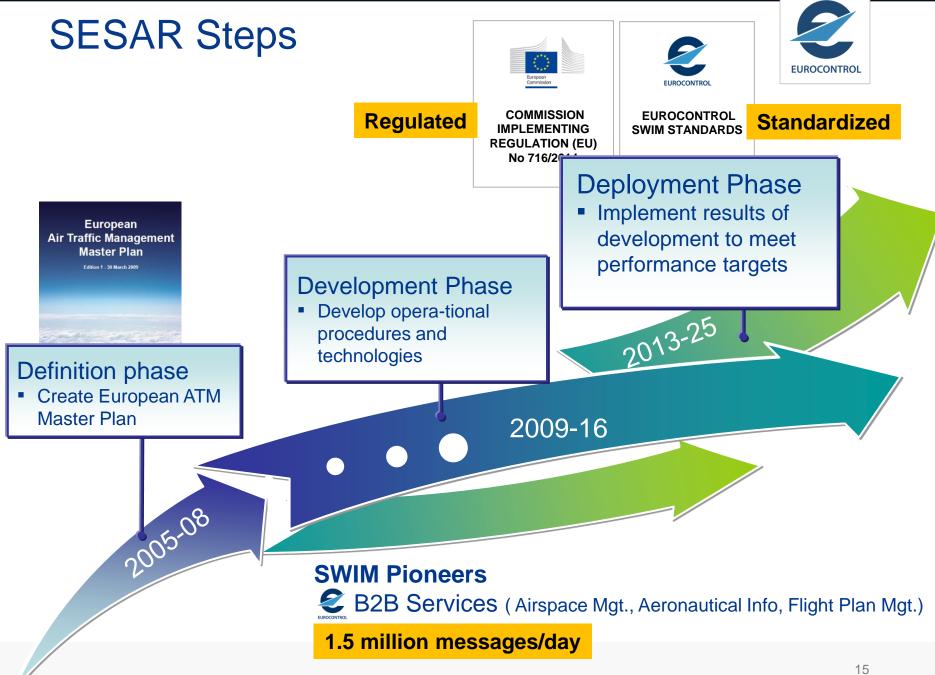
EUROCONTROL

The infrastructure will implement functions that secure information exchanges :

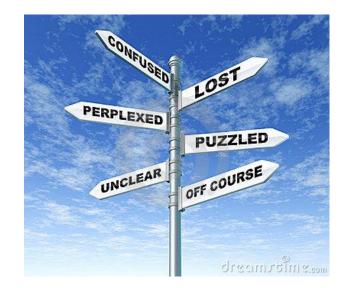












What can you do next?

- Data in digital format (e.g. AIXM)
- Available using web service technologies (XML,SOAP,WSDL)
- Over IP network (Internet/Private)
- Publish guidance to service consumers (if you build it, they will come)
- Formalize relationship with service consumers (SLAs)

Follow up information



- SESAR Joint Undertaking www.sesarju.eu/swim
- SESAR SWIM Registry

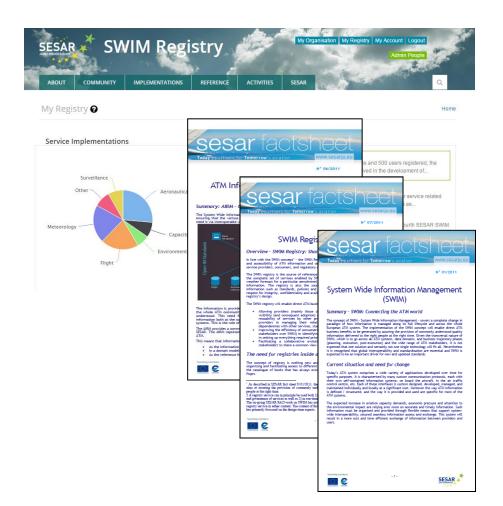
http://eur-registry.swim.aero/

Some additional info

http://www.eurocontrol.int/swim

Email

swim@eurocontrol.int



See you soon

es-EAC

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