ICAO UNITING AVIATION

Overall Update on Information Management Panel (IMP)

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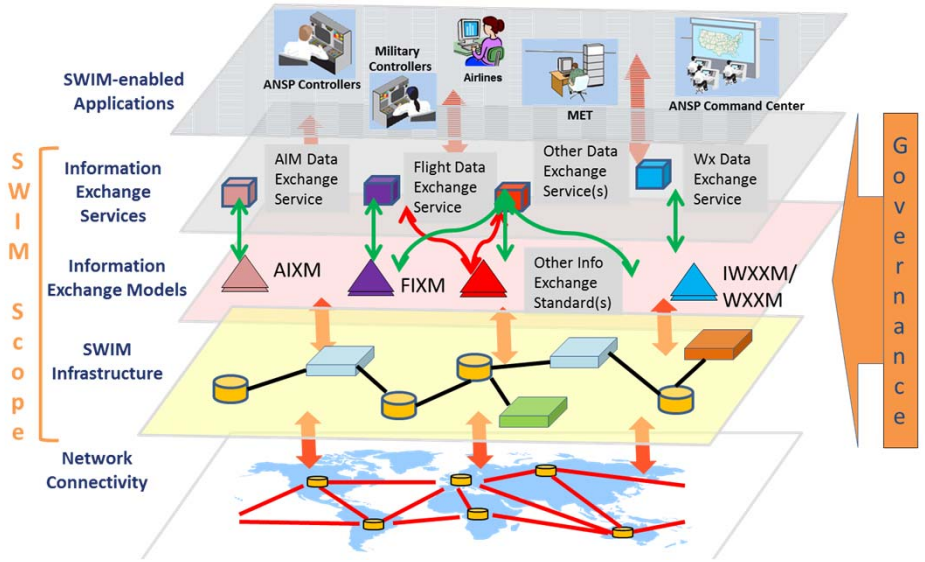
System-Wide Information Management (SWIM) Vision

- SWIM is an integral part of the ***Global Air Navigation Plan*** **(GANP) (Doc 9750)** and is covered in a number of the aviation system block upgrades (ASBU) modules

- **The Manual on Air Traffic Management System Requirements (Doc 9882)** explicitly identifies the implementation of SWIM as a requirement for the future ATM System

- **The Manual on SWIM Concept (Doc 10039)** provides a vision for interoperable global information management while addresses the transition to a mixed operational environment



SWIM Global Interoperability Framework

Overview of Status of work

- Work done so far by ATMRPP:
  - SWIM operational concept developed (advance copy Doc 10039 available)
  - A/G components to be added to the concept
- Information Management Panel established (ANC 194th session)
  - Building Global SWIM
  - Assisting Secretariat as focal point for integration of all its components
- SWIM enablers being worked out by various Panels (Flight and Flow, COM, AIM and MET)
- Initial Workshops, Demonstrations taking place in the Regions

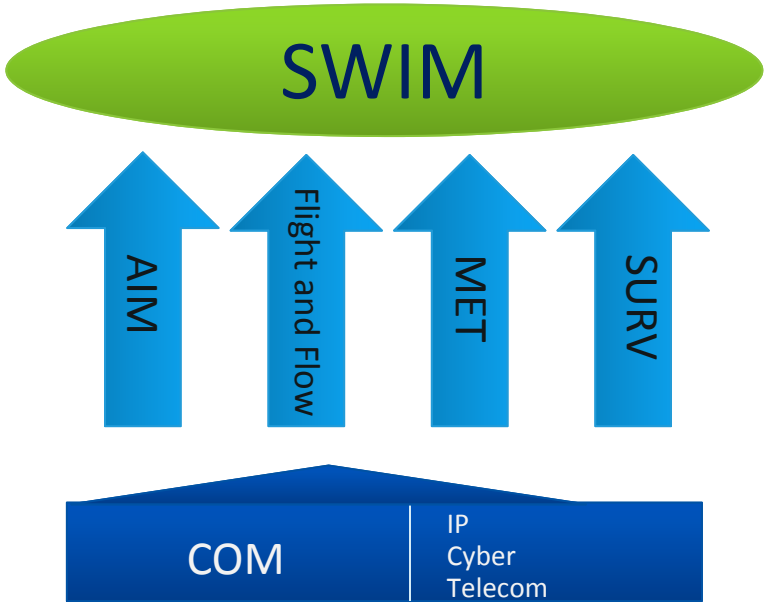
SWIM Programme office

- Develop **the long term vision**
- Develop **intermediate** and **short term goals**
- Establish **concrete usage for different scenarios**
- Ensure **harmonized implementation**
  - Mitigate current proliferation
  - Establish RO focal points for coordinated roll-out

SWIM: A multidisciplinary approach

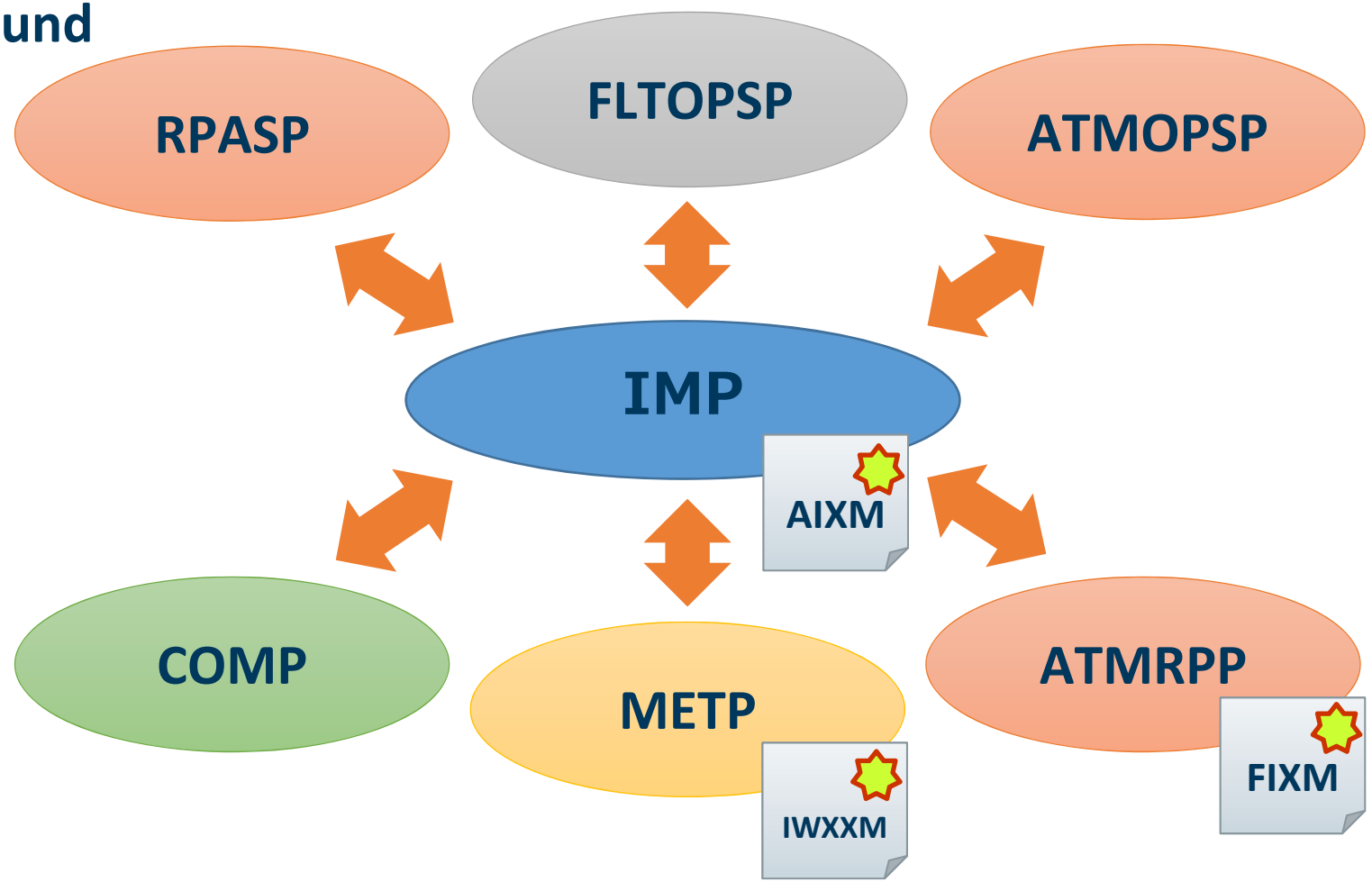
All enablers need to be developed with greater SWIM goal in mind

- SWIM is multidisciplinary effort, needs to be treated **like a programme**
- **ICAO SWIM programme office** being established to coordinate efforts



SWIM: A multidisciplinary approach

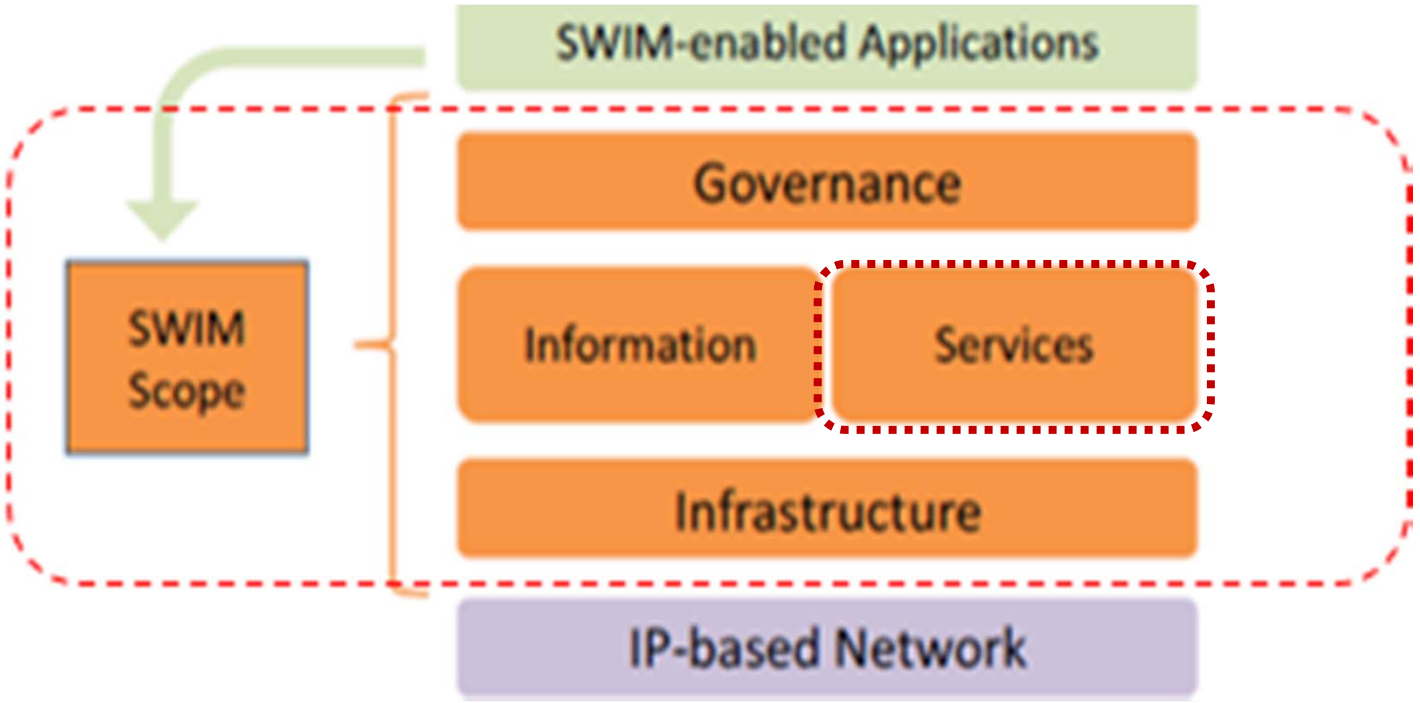
Air Ground



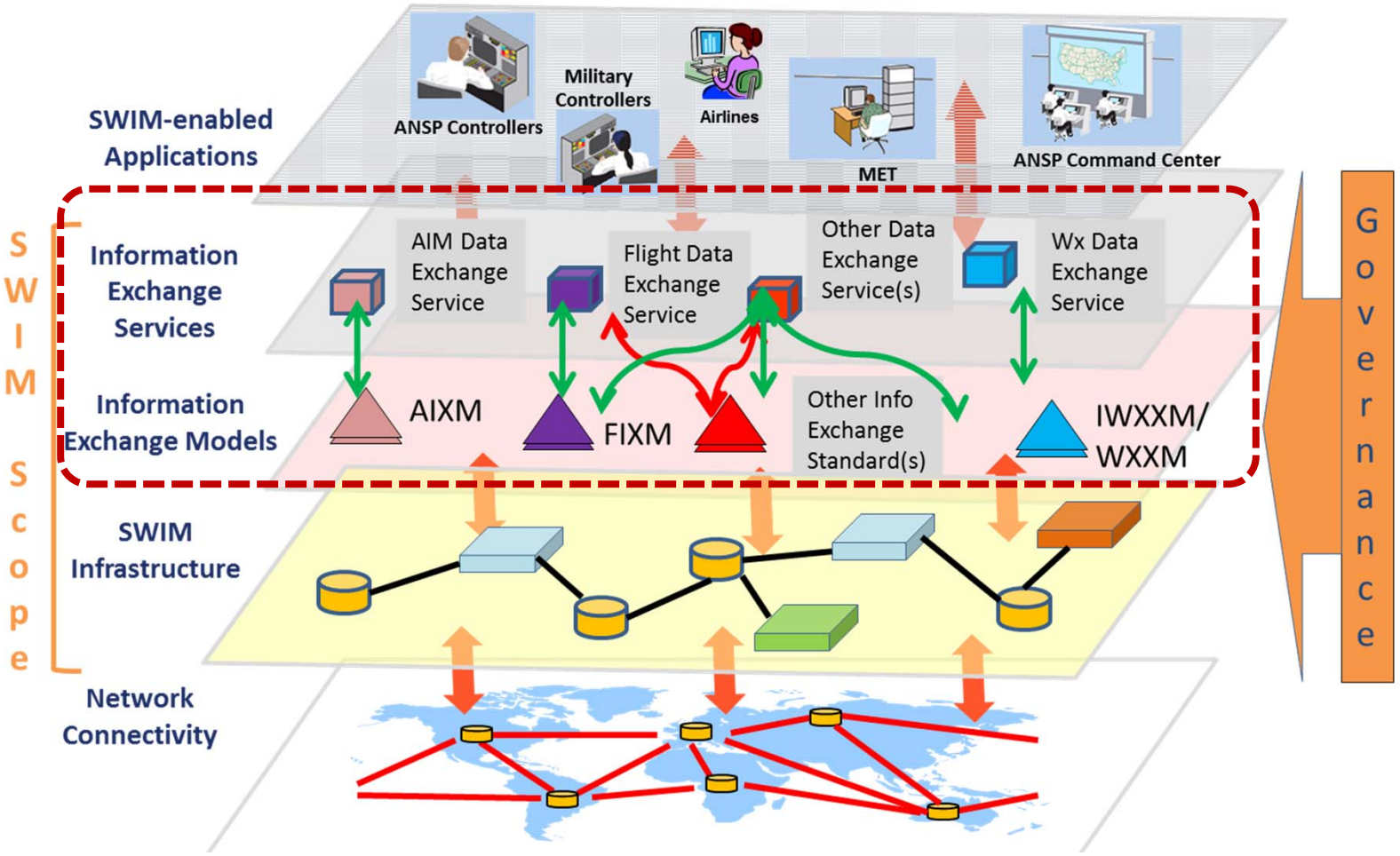
Overall Update on Information Management Panel

The Scope of SWIM

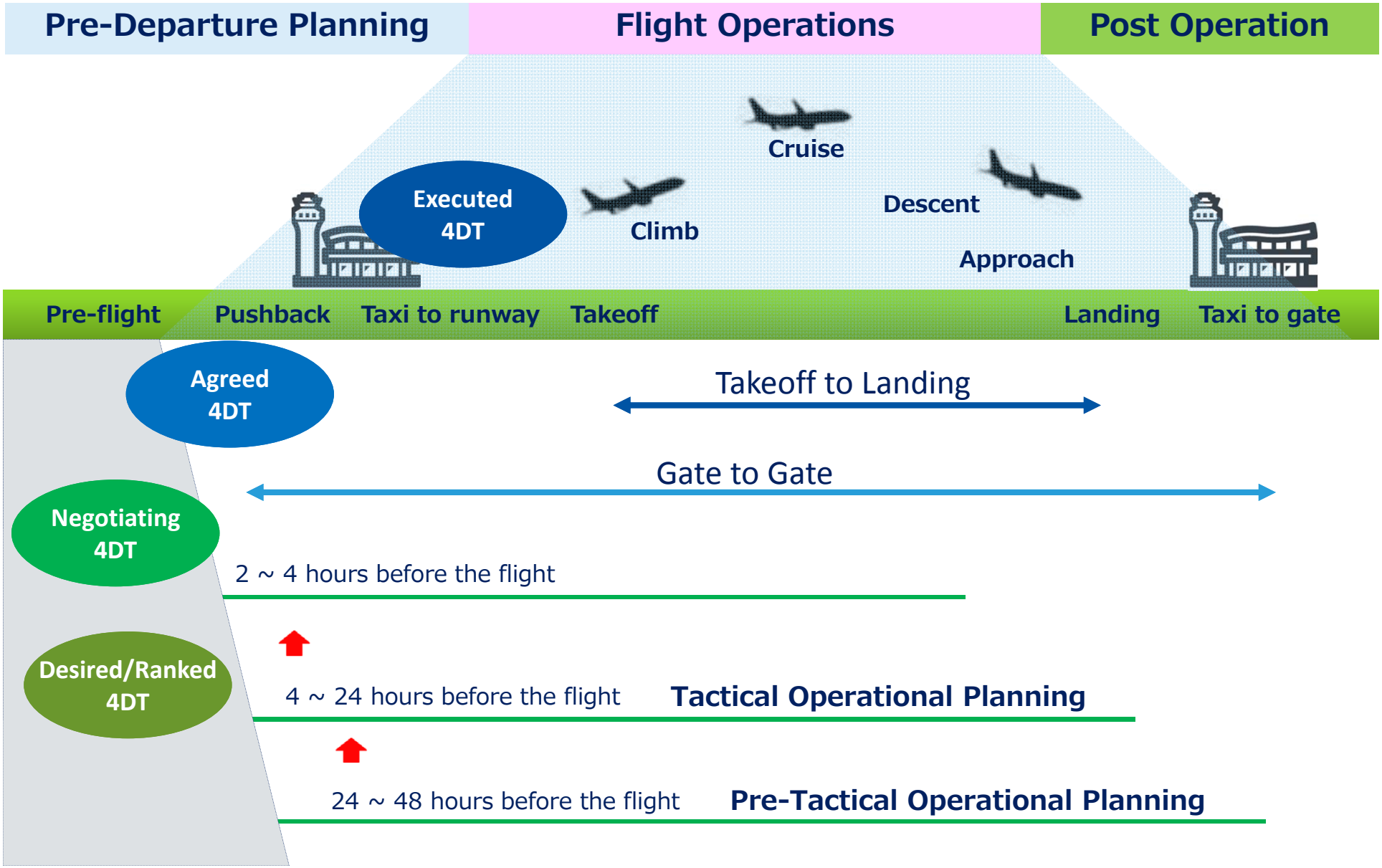
Approach to Information Service



SWIM Global Interoperability Framework



The expected Scenario for FF-ICE



The optimized Services for scenario-based (under consideration)

Aeronautical Information Services	1. Aerodrome Information Service 2. Flight Procedure Service 3. Published Navaid Informantion Service 4. Navaid Status Information Service 5. Published Airspace Schedule Service 6. Airspace Status Service 7. Movement Area Status Service 8. Obstacle Information and Status Service
Flight Information Services	9. Global Unique Flight Identifier Service 10. Flight Intent Service 11. Pre-Departure Flight Information Service 12. Trajectory Evaluation Service 13. Trajectory Update Service 14. Flow Information Service 15. Flow Preference Service
Weather Information Services	16. Surface Weather Infromation Service 17. Upper Air Weather Information Service 18. Weather Advisory Service 19. Weather SIGMET/Warning Service

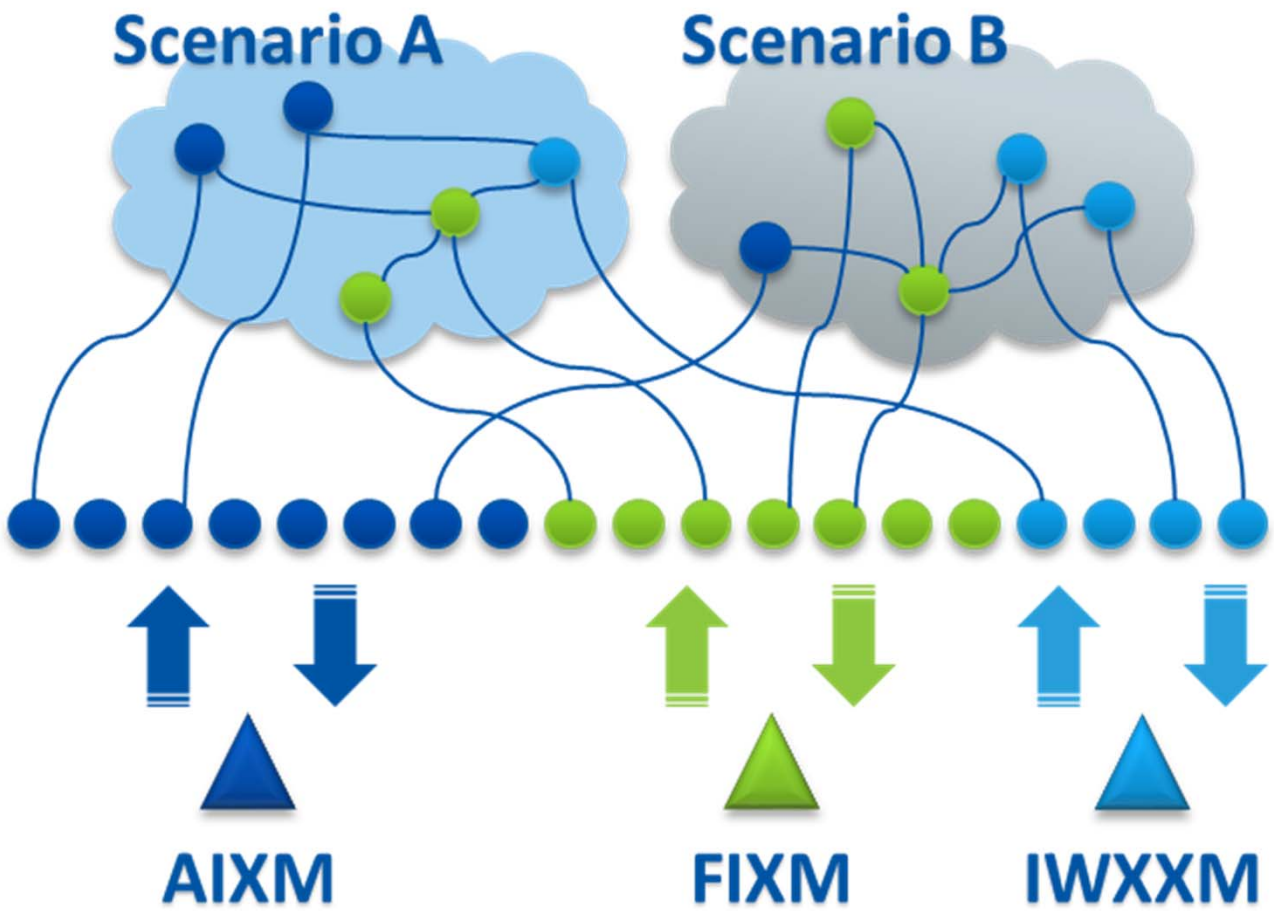
The availability of Service components

- ✓ Terms
- ✓ SARPS
- ✓ PANS
- ✓ Guidance

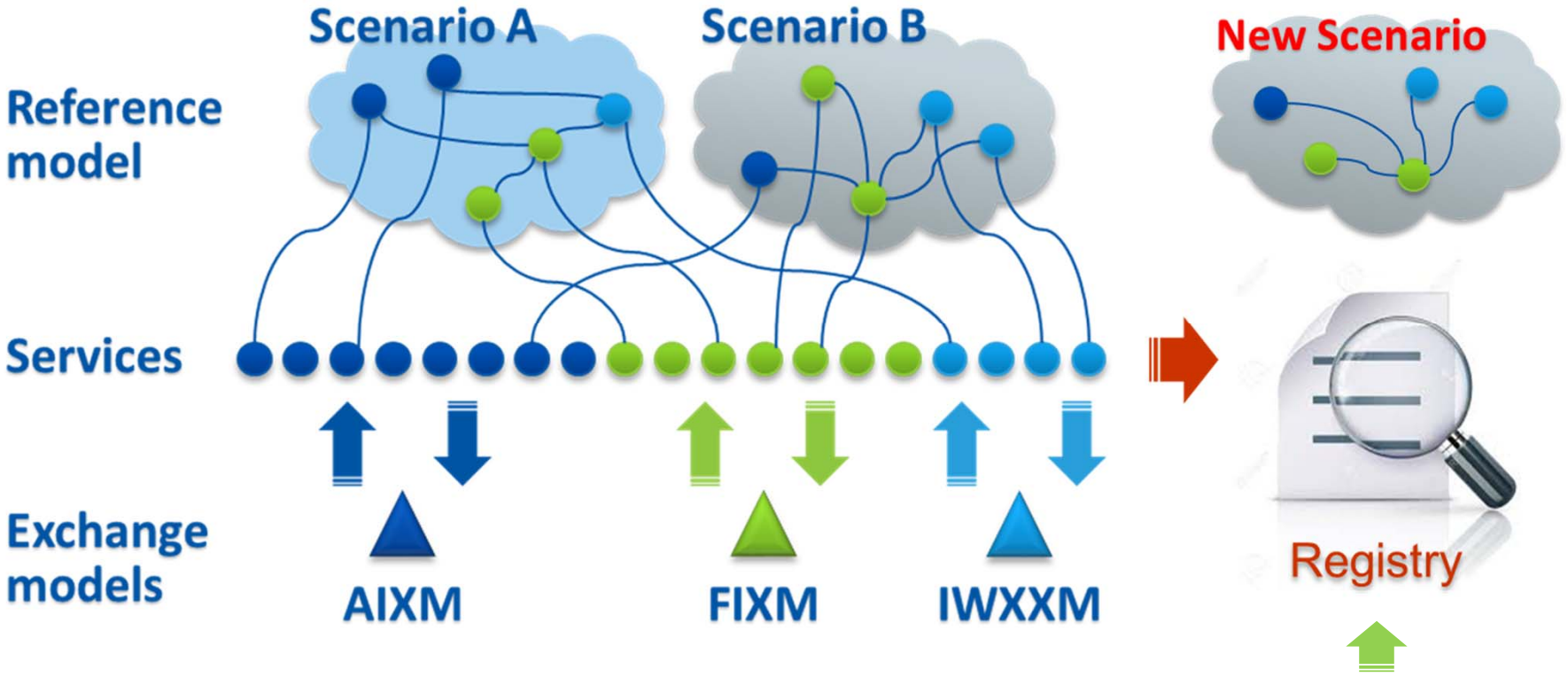
Reference model

Services

Exchange models



Discovery of Service components



Key Points for Global Interoperability

Inheritance of Quality

IMP 4 Working Groups
to enabling work

Services

Abigail Smith - FAA

Architecture

Paul Bosman - Eurocontrol

Governance

Stephane Dubet - France

Communication And Awareness

Planned deliverables (work in progress!)

- Updated SWIM Concept Manual → SWIM Manual
- Initial Information Management SARPs
- New NOTAM Concept/Replacement proposal
- AIRM Package
- Global registry proposal ?

All by November 2018 (handed over to ICAO)

Thank you