

# Relationship between IMP and METP

Presented to: ATIEC 2016

By: Alfred Moosakhanian, FAA

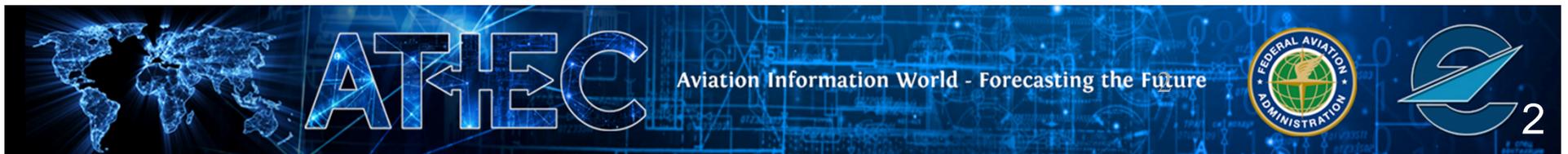
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*Aviation Information World - Forecasting the Future*

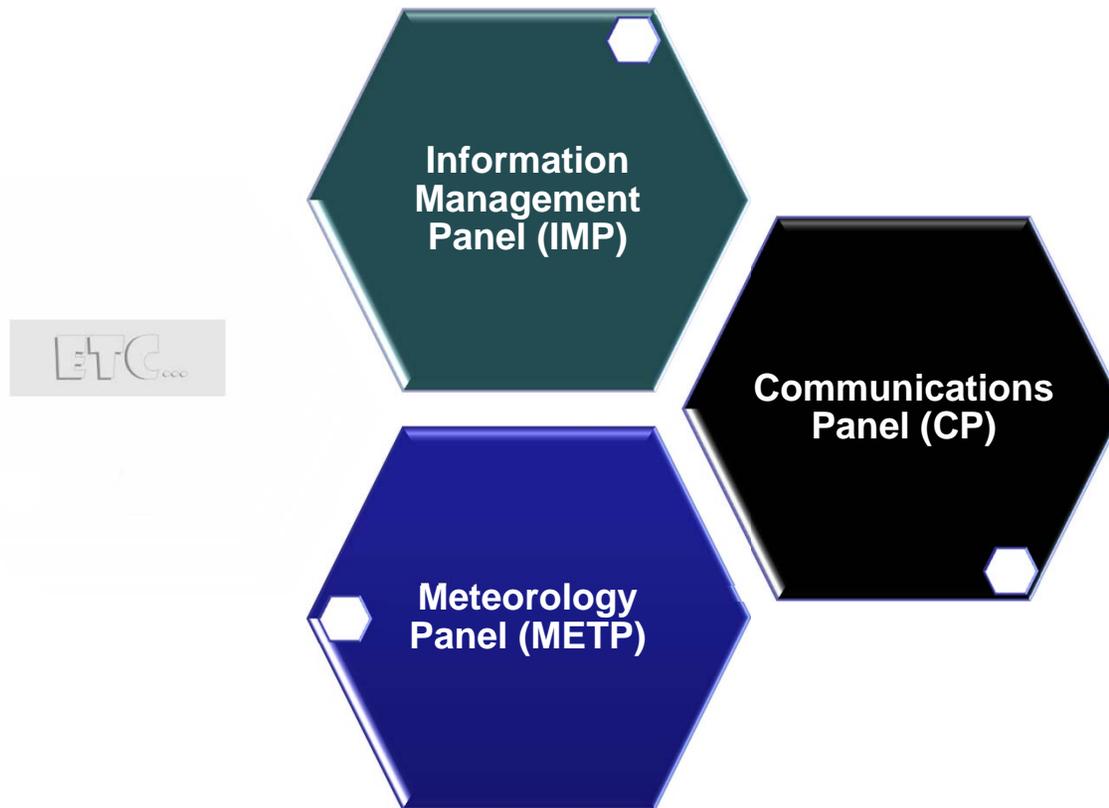


# Overview

- Introduction
- Information Management Panel (IMP)
- Meteorology Panel (METP)



# ICAO Panel Structure



# IMP Responsibilities

1

Define the Global Interoperability Framework (GIF)

2

Define and elaborate on the ATM information management concepts, functions and processes on a system-wide basis.

3

Identify the Quality of Service requirements necessary to maintain ATM information security, integrity, confidentiality and availability and to mitigate the risks of intentional disruption and/or changes to safety critical ATM information.

4

Develop an ATM information service architecture.

5

Identify the requirements for SARPS and changes to existing SARPS that will provide an interoperable environment that will support the information requirements of all ANS stakeholders.

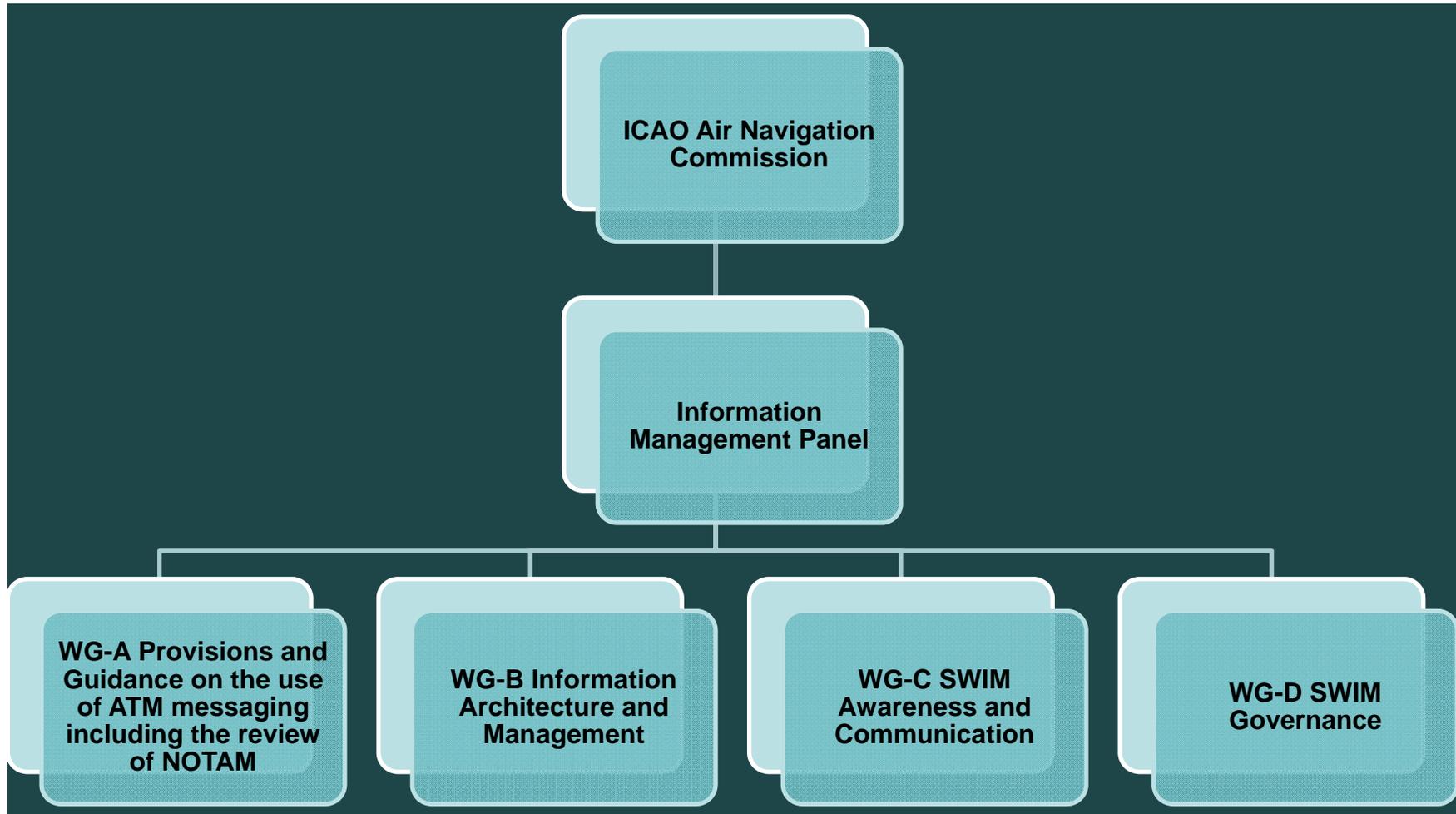
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Develop transition strategies and guidance necessary for the implementation of global SWIM and new information exchange formats.

7

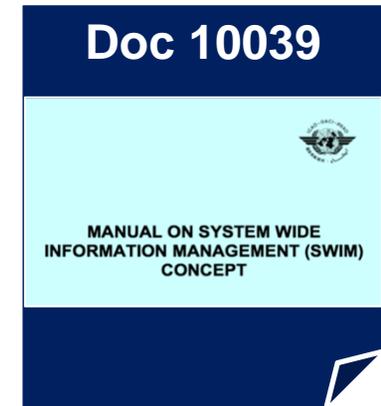
Plan for anticipated data and information flows in relation with future ATM requirements and capabilities and assess the capacity of appropriate facilities to support them.

# IMP Structure



# ICAO Doc. 10039

- **SWIM Concepts**
- **SWIM Global Interoperability Framework**
- **Transition to SWIM**
- **SWIM Technologies**
  - Web services/Service-Oriented Architecture (SOA)
  - (Reliable) Messaging
  - SWIM Registry and associated metadata



# METP Responsibilities

1

Define and elaborate concepts for aeronautical MET service provision, including aeronautical MET services and information supporting the future system-wide information management (SWIM) system

2

Identify the scientific and/or technological capabilities necessary to fulfill the identified operational requirements

3

Develop and/or maintain ICAO provisions necessary for meteorological service for international air navigation

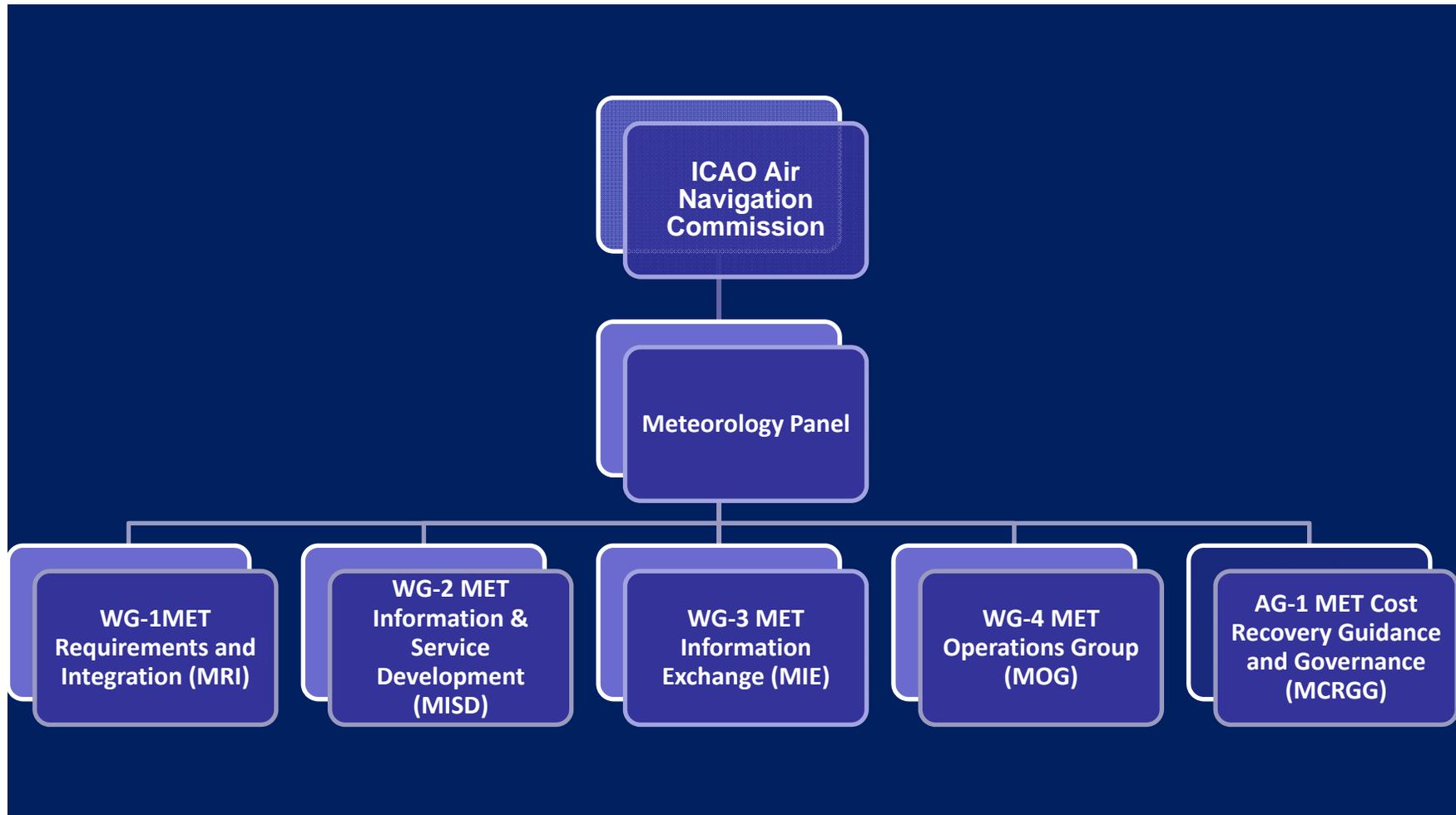
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Develop and/or maintain aeronautical MET integration roadmaps (or similar) that provide transition strategies for aeronautical MET services and information consistent with the GANP

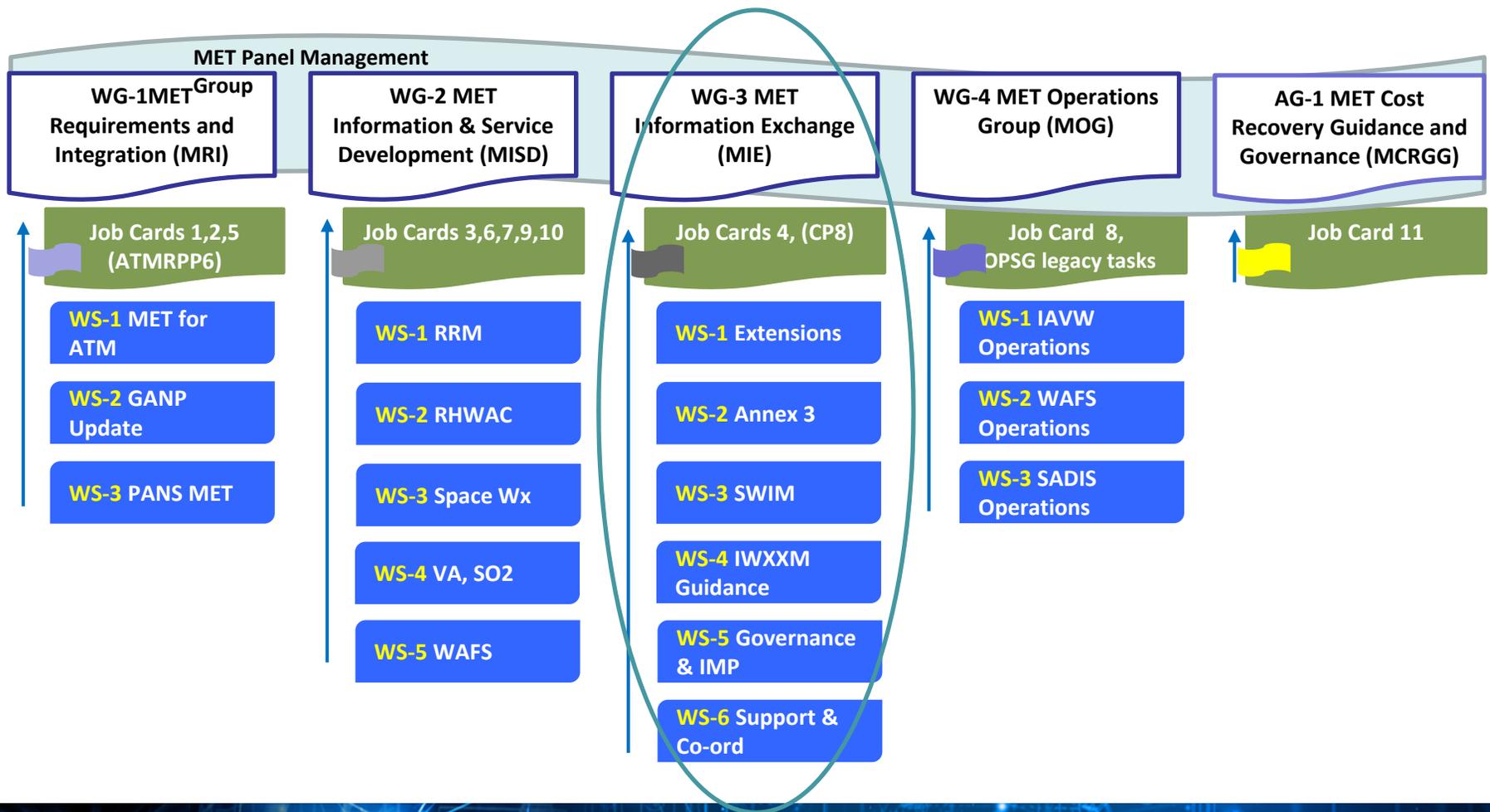
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Develop proposals fostering interoperability through appropriate collaborative arrangements for MET systems and services.

# MET Panel Structure

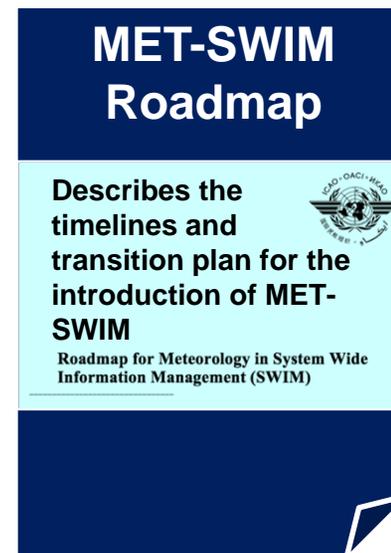
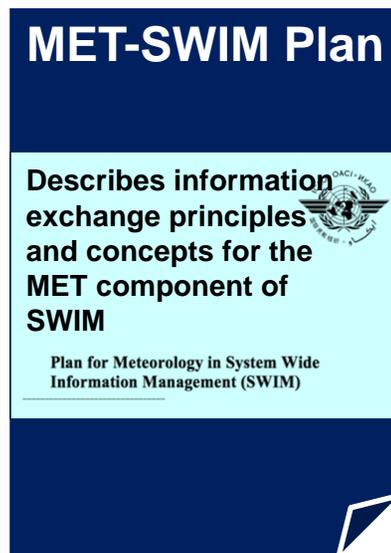


# MET Panel Structure (Cont'd)

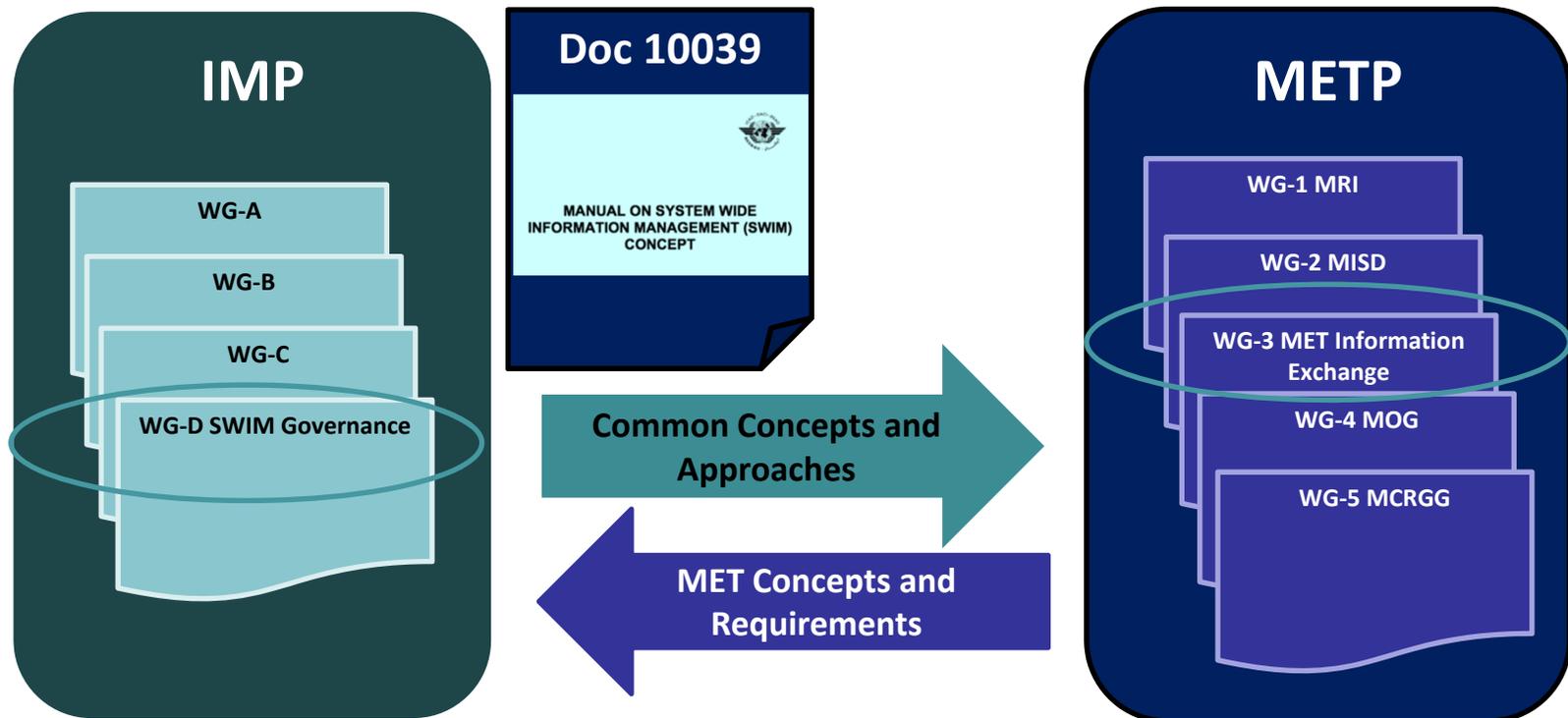


# MET-SWIM

- **WG-MIE** tasked with the development of **MET-SWIM** concepts (Workstream 3: SWIM)
- **WG-MIE** has developed two documents



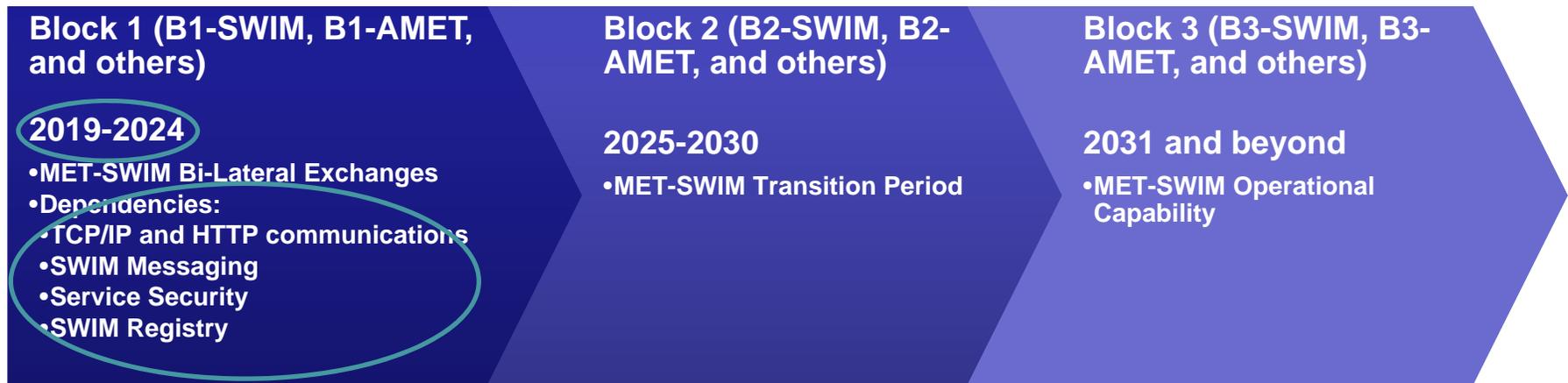
# IMP and METP Relationship



# METP / IMP Coordination

- **METP will continue developing MET-SWIM concepts and share them with the IMP**
- **IMP will continue developing common SWIM concepts and share them with the METP**
- **IMP WG-SWIM Governance**
  - IMP and METP members continue developing governance guidance
  - METP members contribute MET governance expertise and distribute governance information to the broader METP
- **ICAO Doc. 10039**
  - IMP will continue developing SWIM concepts
  - MET-SWIM content may become a new section or appendix in Doc. 10039 *Manual on System-Wide Information Management*

# MET-SWIM Roadmap



**\*MET-SWIM timelines are notional and have not yet been discussed by the full METP**

# GANP and ASBUs

- The Global Air Navigation Plan (GANP) describes several phases of SWIM Implementation. These are Aviation System Block Upgrades (ASBUs)
- MET-SWIM capabilities rely upon common SWIM capabilities
- Recent GANP and ASBU proposals would update Block 1 implementation from 2019 to 2024

# Summary

- **CP, IMP and METP relationships and coordination are very important**
- **ICAO SWIM implementation is in progress**
- **MET-SWIM (and other domains such as AIM-SWIM) will require Block 1 SWIM capabilities such as SWIM messaging and HTTP communications**

# Contact Information

**Alfred Moosakhanian, FAA  
Program Manager  
FAA NextGen Weather Systems  
(202) 267-0792  
[alfred.moosakhanian@faa.gov](mailto:alfred.moosakhanian@faa.gov)**

