



# Information Management Panel (IMP) - UPDATE

Presented by Mark Libant

IMP Member nominated by Canada

on behalf of

**Alexander Pufahl**

*Technical Officer, Information Management*

Lima, October 31<sup>st</sup> – November 3<sup>rd</sup> 2017





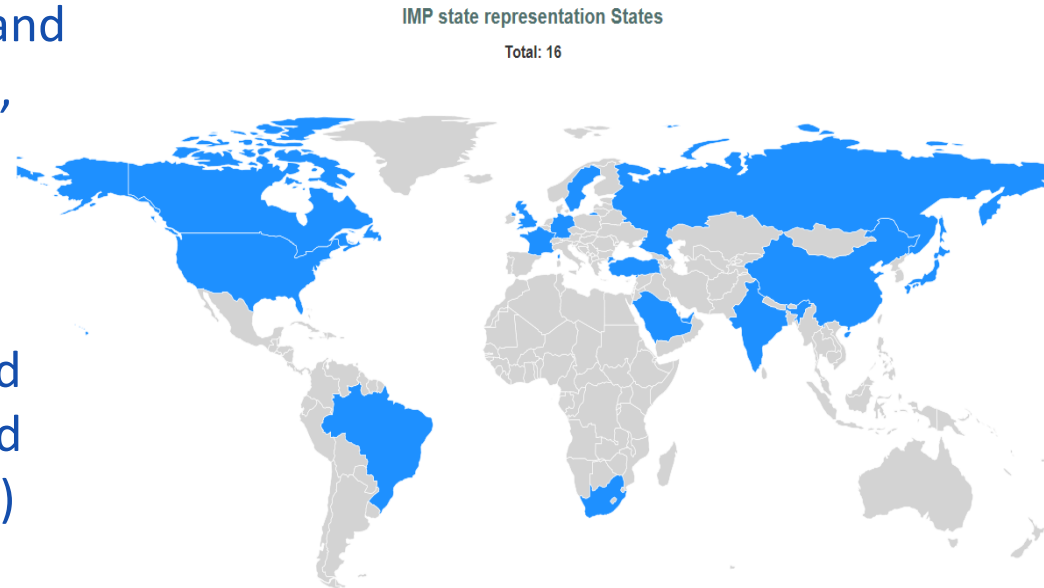
# Outline

- IMP Overview
- IMP Structure (WG-I, WG-S, WG-G)
- IMP Current Discussions
- IMP Planned Deliverables
- Looking ahead

# IMP Overview

- **Members**

- 23 Members from 16 States and 6 International Organizations, covering all 7 ICAO Regions
- IMP/WG/4 participation: 43 (14 members, 28 advisors and 1 observer from 13 States and 6 International Organizations)



# IMP Overview

- **Meetings**

- IMP/1 Panel - Montréal, 26-30 Jan 2015
- IMP/WG/1 - Montréal, 16-20 Nov 2015
- IMP/WG/2 - Paris, 25-29 Apr 2016
- IMP/WG/3 - Montréal, 14-18 Nov 2016
- IMP/WG/4 - Montréal, 01-05 May 2017
- IMP/WG/5 - Montréal, 06-10 Nov 2017
- IMP/WG/6 - Montréal, 23-27 Apr 2018
- IMP/2 Panel - Montréal, 28-01 Feb 2019



# IMP Structure

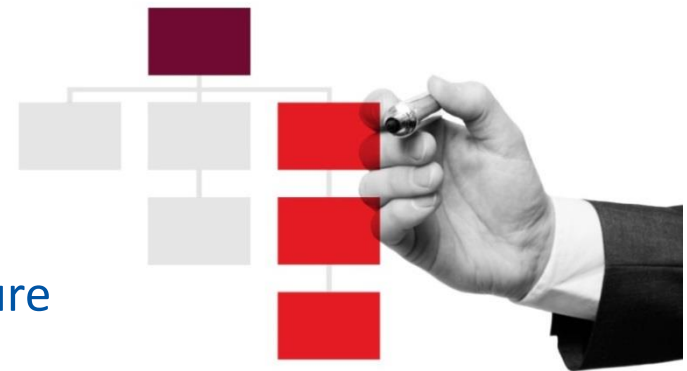
- **WG-I Information Architecture & Management**
  - *to develop provisions and guidance material to describe information management concepts, functions and processes and the architectural information framework (Job Card 002)*
- **WG-S Information Services**
  - *to develop a concept for Information Services, including a SWIM Service Description Template and associated provisions and guidance material (Job Card 004)*
- **WG-G SWIM Governance**
  - *to develop provisions and guidance material to describe governance rules within the future SWIM (Job Card 005)*

# IMP Current Discussions



# IMP WG-I: Information Architecture & Management

- Update of Doc.10039, Manual on SWIM Concept
  - ✓ Transforming it into a SWIM Manual consisting of two Volumes
  - ✓ Volume 1: SWIM Concept, addresses also SWIM governance and interoperability architecture
  - ✓ Volume 2: Implementation Guidance
- Define SWIM Terminology and definitions
- Introduce AIRM for semantic interoperability
- Develop guidance for SWIM technical infrastructure



# IMP WG-S: Information Services

- Information service description template
  - ✓ To help service consumers discover and select information services
- Information Service Quality
  - ✓ To specify quality characteristics that apply to the provision of information services, e.g. availability
- Information Service Access
  - ✓ To define rules for secure access
- Terminology used regarding Information Services



# IMP WG-G: SWIM Governance

- SWIM quality requirements to enable data quality across all SWIM data domains:
  - ✓ Data, Information and Service quality
  - ✓ Quality Management System for SWIM
- SWIM Information services validation
  - ✓ Identifying different validation methods
- SWIM Registry for service discovery
- Governance of information exchange models (e.g. AIXM, iWXXM, FIXM)





# IMP Planned Deliverables (by IMP/2 in Feb. 2019)

- **Documents**

- Updated Doc 10039 SWIM Manual, Vol. 1 and 2 (1<sup>st</sup> edition)
  - Including operational scenarios and use cases
- Air Traffic Management Information Reference Model (AIRM)
  - Including guidance material

- **Provisions**

- Initial SWIM SARPs including affected Annexes and PANS
  - Supported by Guidance Material, and
  - Impact Assessment



## Looking ahead...

- SWIM as a replacement for all current ATS messages
- Enabler for all envisioned ATM information exchange in support of ATM operations
- SWIM to provide a flexible platform for information services to meet operational needs
- Initial set of provisions to lay a solid foundation for future evolutions of information management.



# Coordination HQ and Regional Office

- SAM member states are invited to subscribe to IMP secure portal for access to all IMP WPs and feedback on SWIM-related issues.
- Continue coordination between Regional Office and HQ to ensure interoperability of State's information management systems.
- Conduct joint SWIM Workshops and Seminars offering guidance on recommended SWIM implementation methods.
- Common goal is to build a seamless global information management system according to Doc.9854, Global ATM Operational Concept.
- **Read, review and provide feedback regarding new Doc.10039 Vol.1 SWIM Manual (after IMP/WG/5) !**





- North American Central American and Caribbean (NACC) Office  
Mexico City
- South American (SAM) Office  
Lima
- ICAO Headquarters**  
Montreal
- Western and Central African (WACAF) Office  
Dakar
- European and North Atlantic (EUR/NAT) Office  
Paris
- Middle East (MID) Office  
Cairo
- Eastern and Southern African (ESAF) Office  
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- Asia and Pacific (APAC) Office  
Bangkok



**Thank You**