



# ICAO

## The Fifth Meeting of System Wide Information Management Task Force (SWIM TF/5)

*Video Tele-conference, 9 – 11 August 2021*

**Agenda Item 6:** Updates on the assigned tasks by task leads/contributors including progress report and issues

**a) Implementation Planning**

- Task 1: Regional Implementation Philosophy & Roadmap

### **EXPANSION OF THE SWIM IMPLEMENTATION PHILOSOPHY**

(Presented by Singapore)

#### **SUMMARY**

This paper expands on the SWIM Implementation Philosophy presented at the 3<sup>rd</sup> meeting of the SWIM Task Force (SWIM TF/3 WP/19). It proposes a methodology for applying governance developed by this task force within the SWIM Implementation Philosophy.

## **1. INTRODUCTION**

- 1.1 The SWIM Implementation Philosophy was introduced that the 3<sup>rd</sup> SWIM Task Force meeting in Working Paper 19 (SWIM TF/3 WP/19)
- 1.2 The paper describes a ‘bottom up’ approach to SWIM implementation focusing on identifying operational use cases and then building the necessary SWIM infrastructure and information services to support it. Governance is applied after the services have been built.
- 1.3 The paper also goes on to describe a roadmap for SWIM implementation as well as a methodology for selecting operational use cases for development.

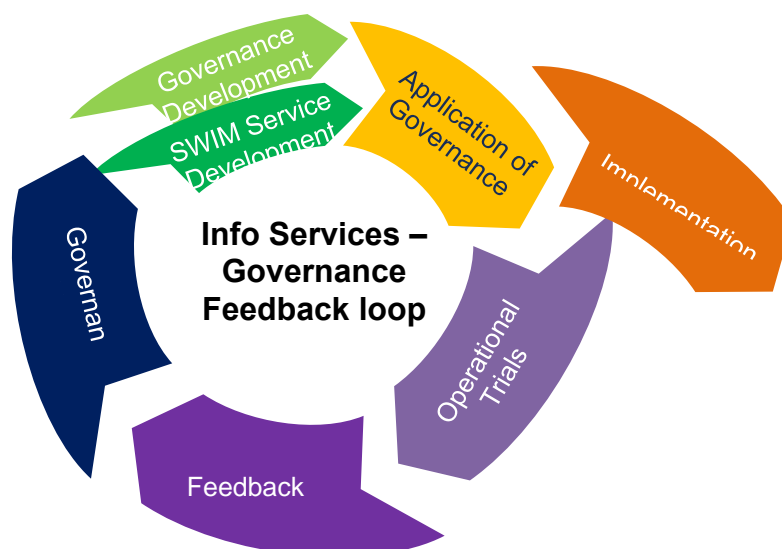
## **2. DISCUSSION**

- 2.1 There have been several papers presented at this task force on the topic of SWIM governance over the years covering topics of semantic interoperability, security and trust.
- 2.2 There needs to be a way to translate these governance concepts into practical implementation.
- 2.3 Similarly, recommendations are being developed by the ICAO Trust Framework study group. These too need to be incorporated into the Asia-Pacific’s SWIM implementation.

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- 2.4 The current SWIM implementation philosophy can be expanded to aid in the implementation of governance that is being produced by the SWIM Task Force.
- 2.5 As described in SWIM TF/3/WP/19, the implementation philosophy starts with picking a particular operational use case which will benefit significantly from SWIM support.
- 2.6 After the use case has been selected service required to support the use case in SWIM are then specified and developed. These services are then deployed for technical and operational trials.
- 2.7 Additional steps should be introduced at this point, where the team conducting the operational trials then identifies governance rules, concepts or recommendations that they wish to implement and test as well.
- 2.8 It should be noted that Governance development should be running parallel with the activity listed above.
- 2.9 Once the team has decided on the governance concept to trial, services that implement the governance concept should then be developed and put into the operational trial.
- 2.10 After the operational trial, lessons learnt from implementing the governance concept, both failures and success should be reported back to the task force for further refinement of the governance concept.
- 2.11 Eventually the governance concepts will mature within this loop and be ready for general implementation.
- 2.12 The diagram below illustrates the process will look like.



- 2.13 Practically how this can be feedback loop can be implemented is through the various operational trials happening in the region. While these trials are largely focused on operational and technical aspects of SWIM implementation, their scopes should be

expanded to include implementation of some of the governance concepts that have been developed.

**3. ACTION BY THE MEETING**

3.1 The meeting is invited to:

- a) Note the information contained in this paper; and
- b) Discuss and comment on the proposed enhancement of the implementation philosophy.

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