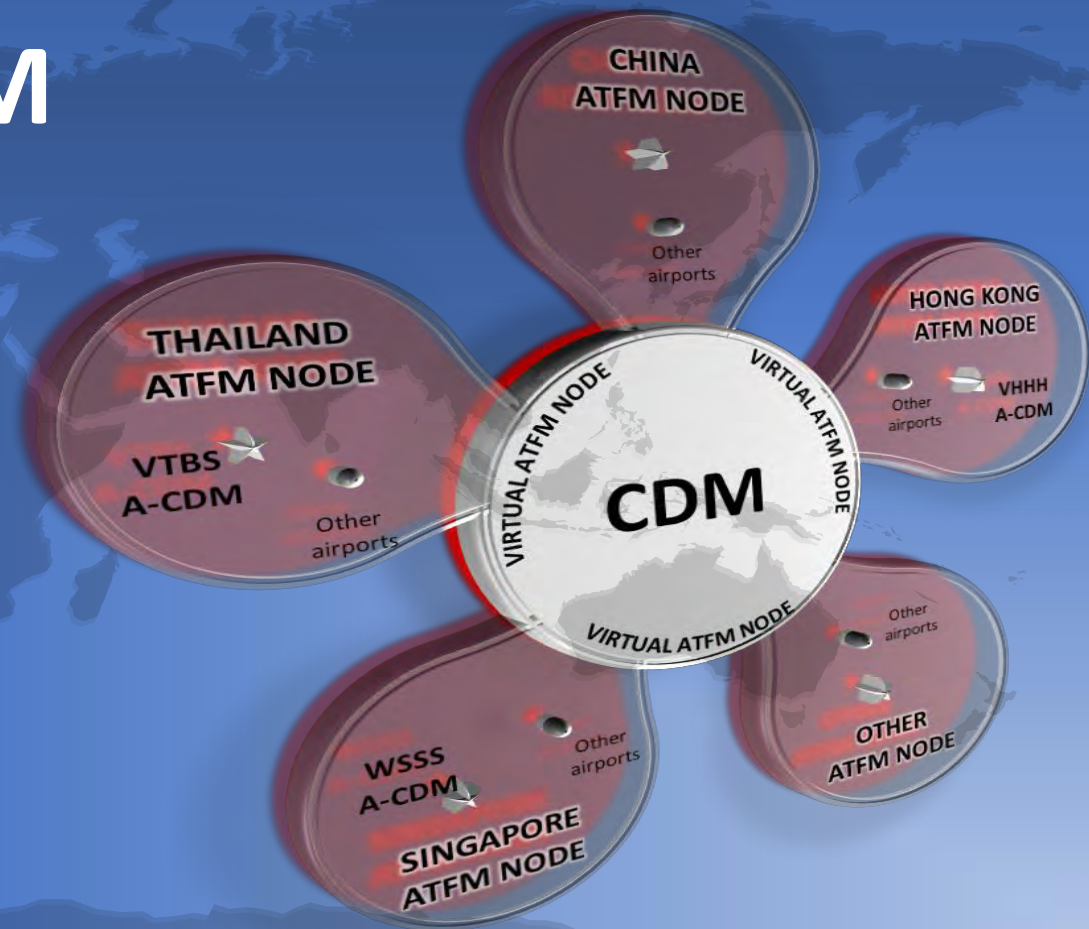


# Outcomes from the Special Topic Meeting on the Future of APAC ATFM

ATFM/SG/15  
28 Apr – 2 May 2025





SPECIAL TOPIC MEETING (STM)

# Future of Asia-Pacific Air Traffic Flow Management

13 – 14 MARCH 2025  
BANGKOK, THAILAND



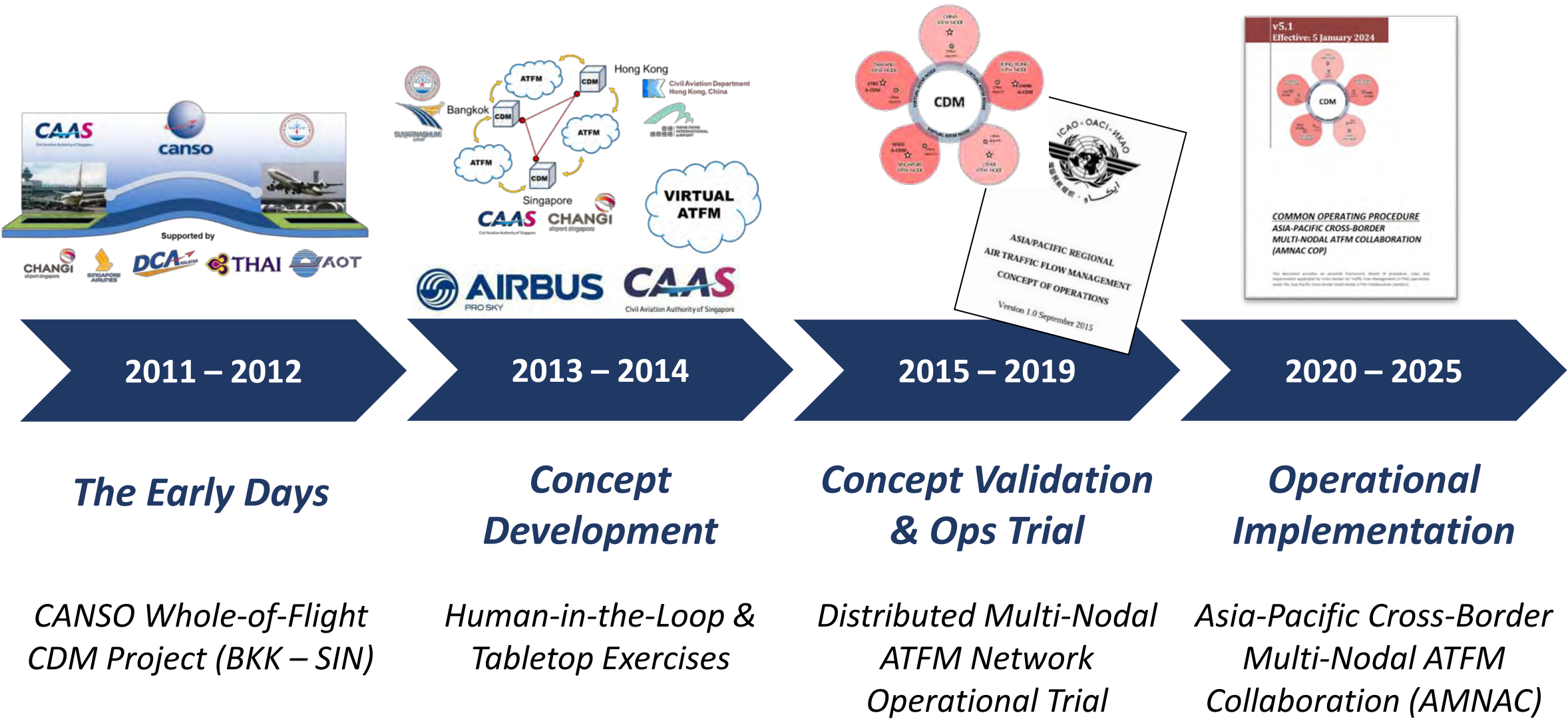
SPECIAL TOPIC MEETING (STM)  
**Future of Asia-Pacific  
Air Traffic Flow Management**

13 - 14 MARCH 2025  
BANGKOK, THAILAND





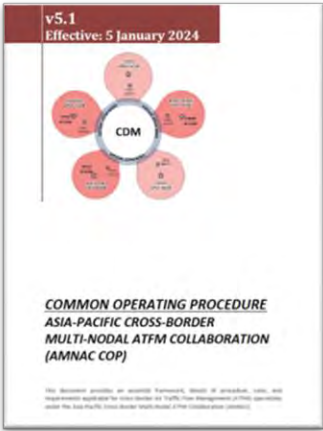
# How Did We Get Here?



**DISTRIBUTED MULTI-NODAL ATFM NETWORK**



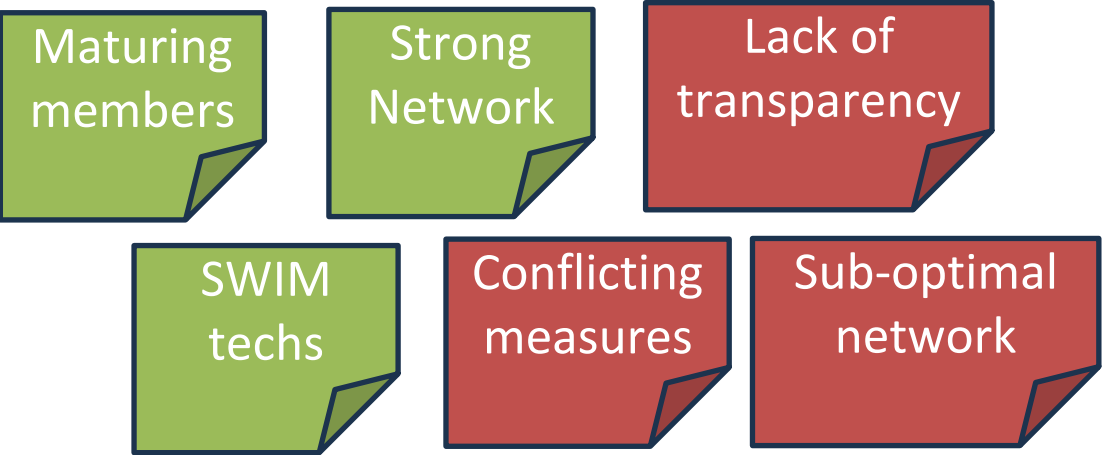
# Where Are We Headed?



2020 – 2025

## Operational Implementation

Asia-Pacific Cross-Border  
Multi-Nodal ATFM  
Collaboration (AMNAC)



## “APAC ATFM 2.0” ConOps

*Address existing challenges,  
leverage emerging technologies,  
& prepare for integration with  
future ATM concepts*



2034+

## FF-ICE/R1 Operational

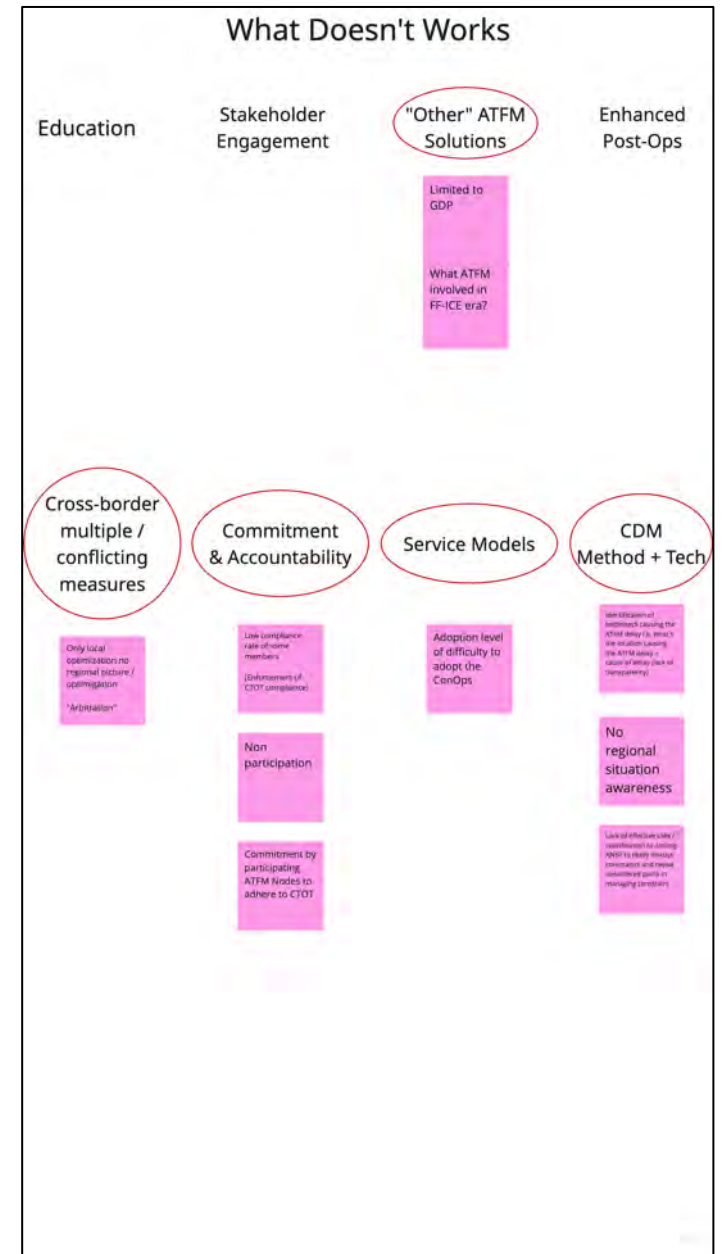
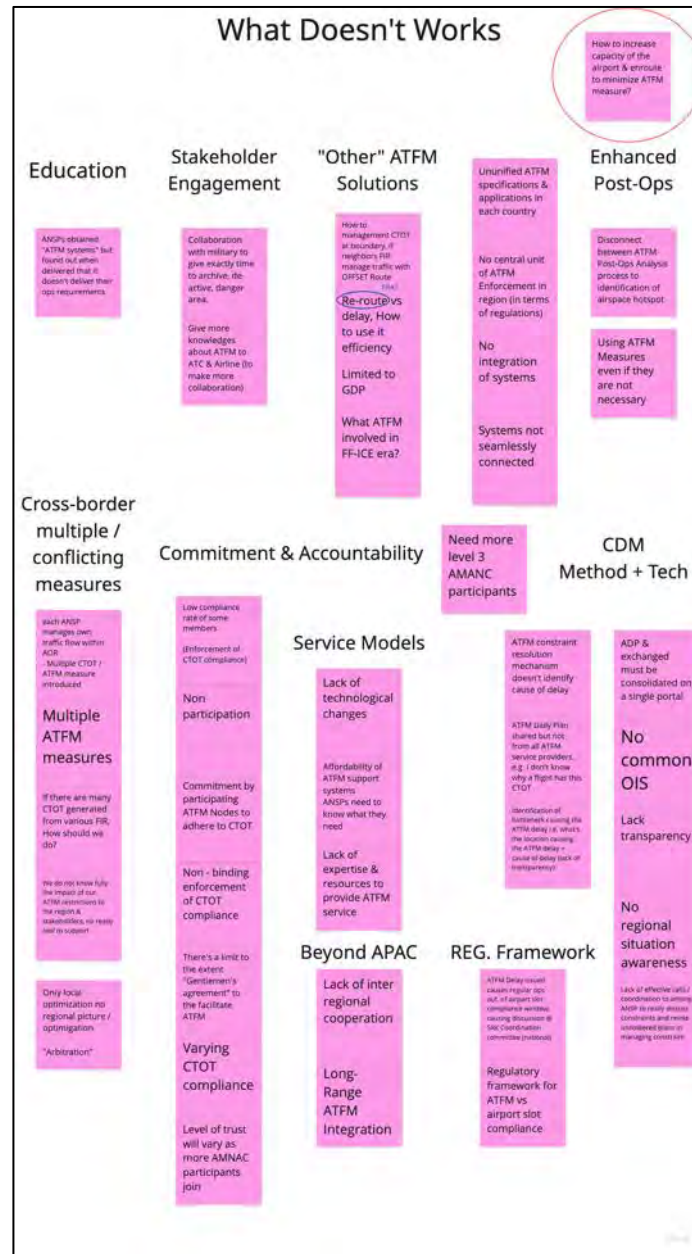
Initial trajectory-based  
flight planning process  
and enhanced data  
exchange



DISTRIBUTED MULTI-NODAL ATFM NETWORK



# Review of Today



## DISTRIBUTED MULTI-NODAL ATFM NETWORK





# Review of Today's Operations

	Clusters	Summary
What Works	Organization	Collaborative environment; flexible participation structure suitable for varying readiness levels
	Method	Ability to implement cross-border GDP
	Acceptability	Growing memberships through strong reputation of the AMNAC initiative
	Technologies	Flexibility in ATFM systems employed, and move toward automated message exchanges



DISTRIBUTED MULTI-NODAL ATFM NETWORK



# Review of Today's Operations

	Clusters	Summary
What Doesn't Work	Education	Gaps in awareness/education resulting in ANSPs obtaining systems that do not fit their needs
	Stakeholder Engagement	Insufficient stakeholder engagement resulting in misunderstanding among operational personnel
	Systems Integration	Lack of integration and connectedness among ATFM systems
	Enhanced Post-Ops Analysis	Disconnect between ATFM post-ops analysis results and capacity enhancement efforts in the region



DISTRIBUTED MULTI-NODAL ATFM NETWORK





# Review of Today's Operations

	Clusters	Summary
What Doesn't Work	Cross-Border Conflicting ATFM Measures	Inability to reconcile conflicting ATFM measures and provide network-wide optimization
	Commitment and Accountability	Lack of commitment and accountability from member ANSPs and stakeholders
	ATFM Service Models	Gaps in adoption of ATFM from APAC States due to affordability of implementing ATFM services
	Support for Other ATFM Solutions	Primary focus on GDP and no procedures for other ATFM solutions
	CDM Methods and Technologies	Gaps in effective region-wide CDM and lack of common situational awareness



DISTRIBUTED MULTI-NODAL ATFM NETWORK



# Vision Statements / Guiding Principles



**DISTRIBUTED MULTI-NODAL ATFM NETWORK**



# We Want the New ConOps to...

# CDM Methods & Techs

- Enable common situational awareness through timely sharing of information among stakeholders

# ATFM Service Models

- Allow maximum participation through ease of adoption

# Commitment Accountability

- Include mechanism to ensure high level of commitment from stakeholders

## Other ATFM Solutions

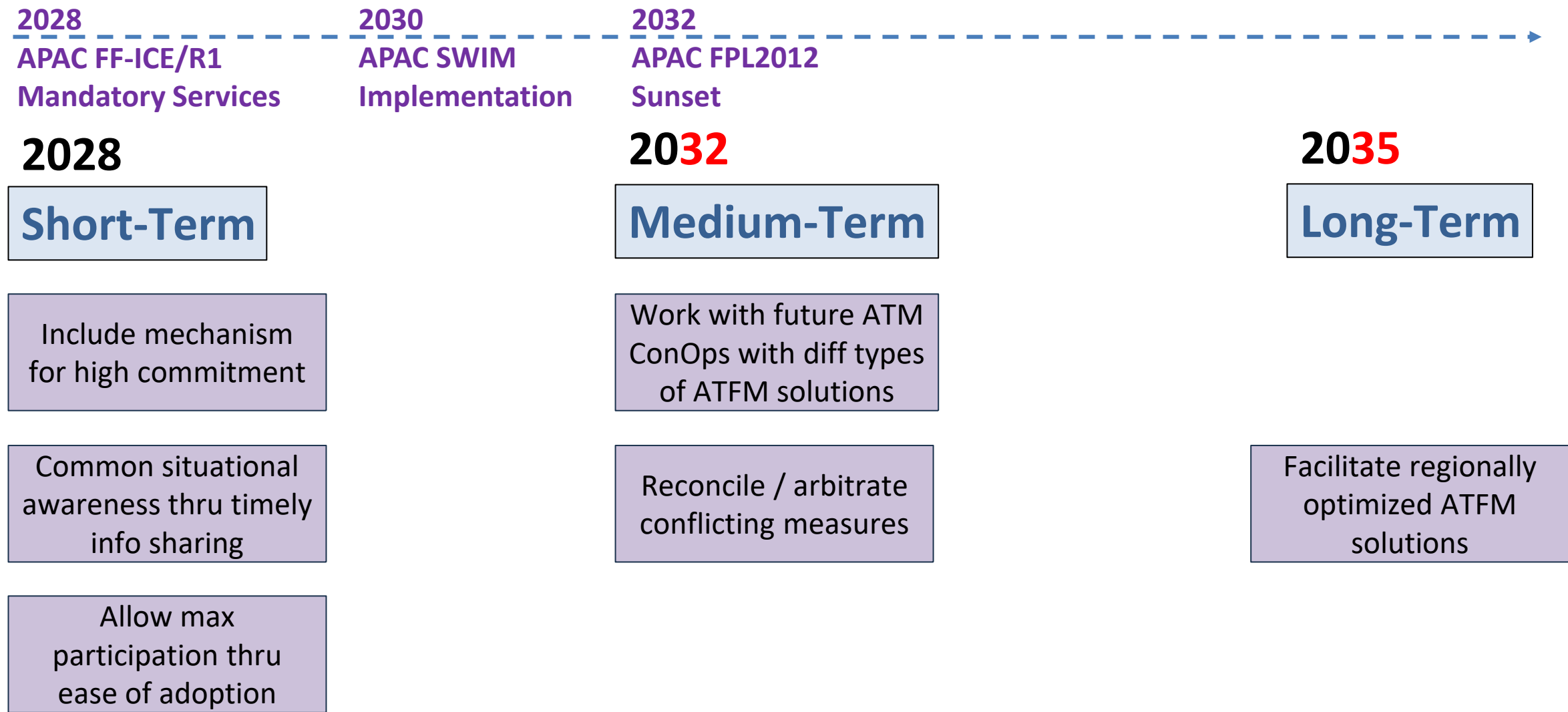
- Work with future ATM operational concepts while providing flexibility of using different ATFM solutions

# Cross-Border Conflicting Measures

- Reconcile/arbitrate cross-border conflicting ATFM solutions
- **Facilitate regionally optimized ATFM solutions**



# “Achieve By” Target Timeline

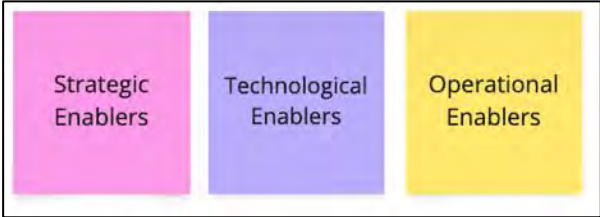


**DISTRIBUTED MULTI-NODAL ATFM NETWORK**

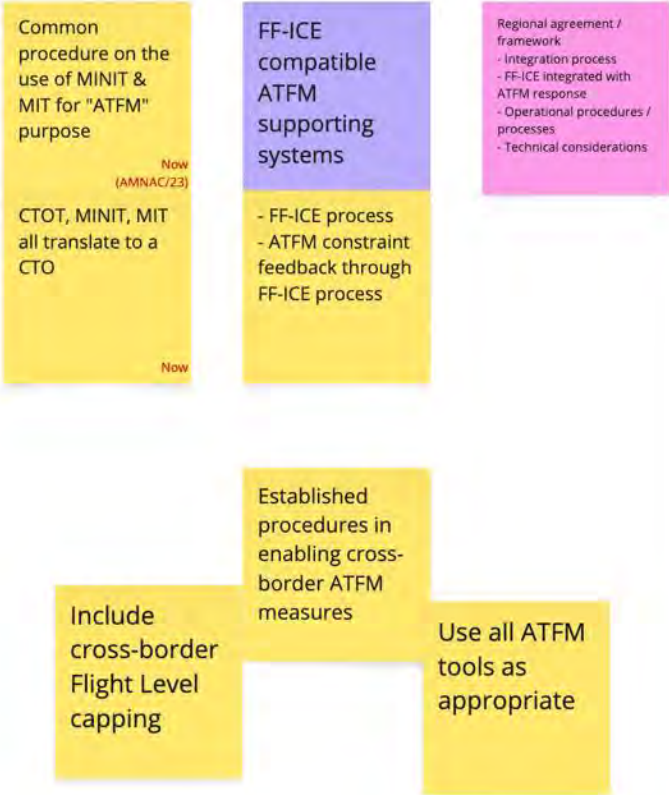




# Initial Solutions



Work with future ATM operational concepts while providing flexibility of using different ATFM solutions



Enable common situational awareness through timely sharing of information among stakeholders



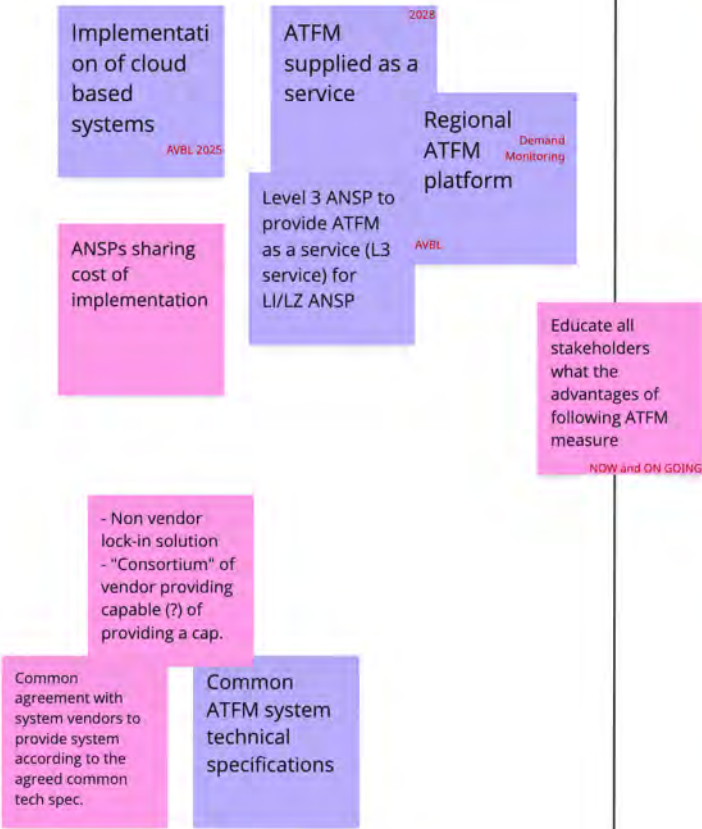
DISTRIBUTED MULTI-NODAL ATFM NETWORK



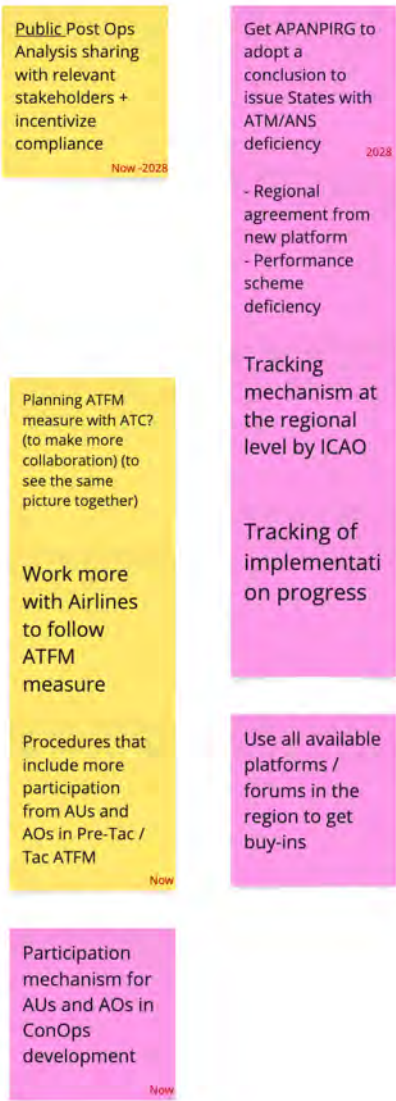
# Initial Solutions



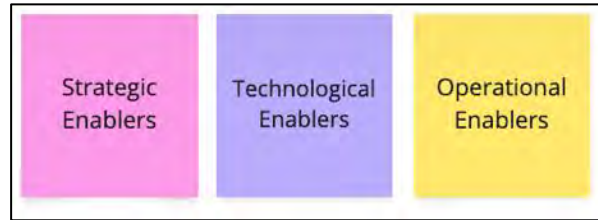
Allow maximum participation through ease of adoption



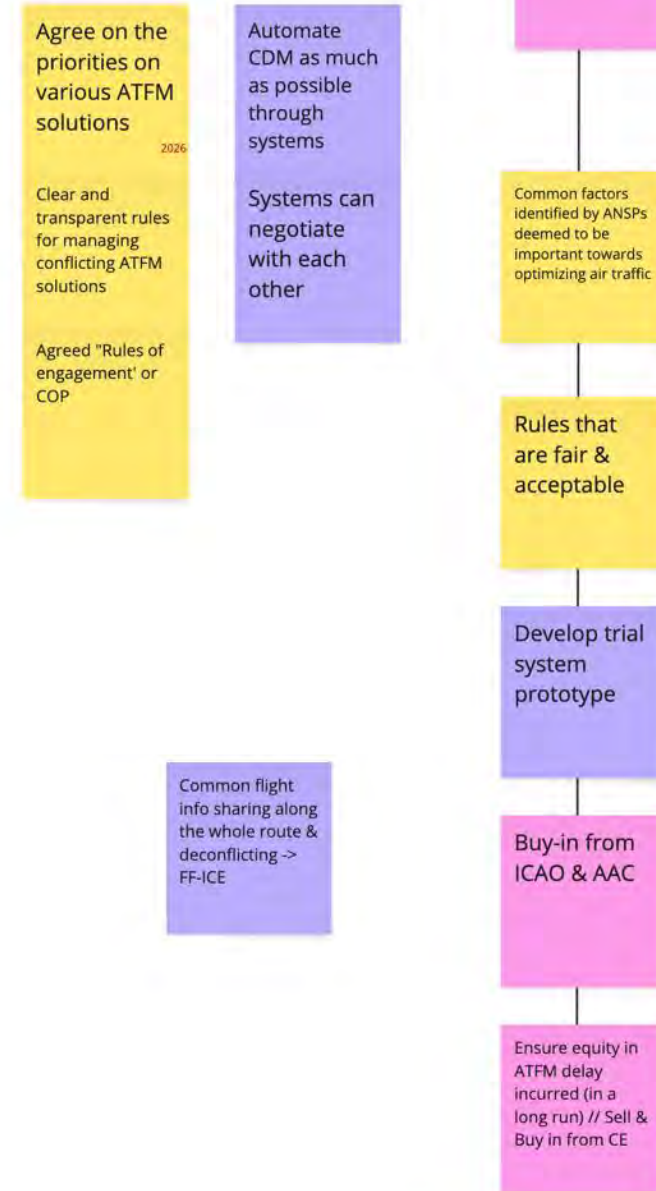
Include mechanism to ensure high level of commitment from stakeholders







Reconcile / Arbitrate cross-border conflicting ATFM measures



## Facilitate regionally optimized solutions



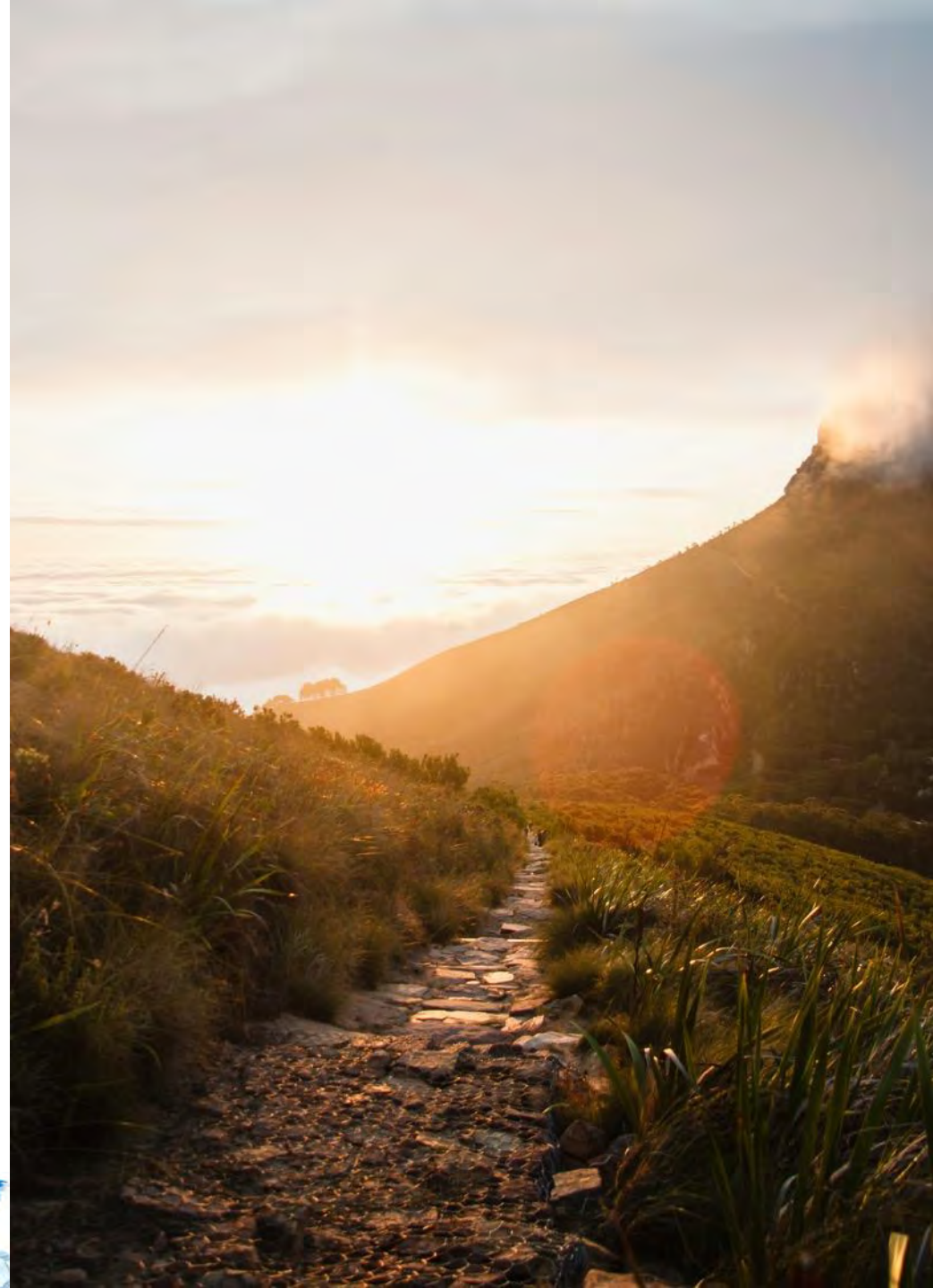
## DISTRIBUTED MULTI-NODAL ATFM NETWORK

# Next Steps

- Establish an ad-hoc group under ATFM/SG to work on the new ConOps (**WP/14** refers)
- Ensure alignment or complementary work plan and close coordination between the ad-hoc group and the *Next Generational ATFM Working Group* established under the APAC ANSP Committee (AAC) (AAC/4 refers)



## DISTRIBUTED MULTI-NODAL ATFM NETWORK





# Action by the Meeting

- a) note the information contained in this paper,
- b) discuss the needs for a review of the regional ATFM concept of operations,
- c) review the outcomes of the STM, particularly the proposed basis for the revised regional ATFM concept of operations,
- d) share ideas on the future regional ATFM concept of operations, and
- e) discuss any relevant matters as appropriate.



**DISTRIBUTED MULTI-NODAL ATFM NETWORK**

