



SAFE SKIES.  
**SUSTAINABLE  
FUTURE.**



**ICAO APAC/MID ATFM-FF-ICE Seminar 2025**  
Dubai, UAE, 23 – 26 February 2025

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# Asia-Pacific ATFM Implementation Status

## Piyawut Tantimekabut (Toon)

Expert (Director Level), AEROTHAI

Chairperson, ICAO APAC ATFM Steering Group

Thailand Member, ICAO ATM Operations Panel

# APAC ATFM Implementation Status

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1

ICAO APAC Regional ATFM  
Concept of Operations  
(2015)

2

ICAO APAC Regional  
Framework for Collaborative  
ATFM (2022)

3

APAC ATFM Status  
(2022 – 2024)

4

APAC ATFM Lessons Learned

# 1

## APAC Regional ATFM Concept of Operations

2015



### ASIA/PACIFIC REGIONAL AIR TRAFFIC FLOW MANAGEMENT CONCEPT OF OPERATIONS

Version 1.0 September 2015

This document was developed by the Asia/Pacific Air Traffic Flow Management Steering Group (ATFM/SG)

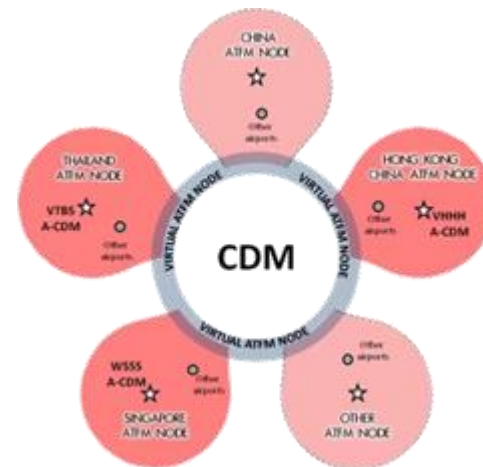
Approved by APANPIRG/26 and published by the  
ICAO Asia and Pacific Office, Bangkok

# ICAO APAC Regional ATFM Concept of Operations (2015)



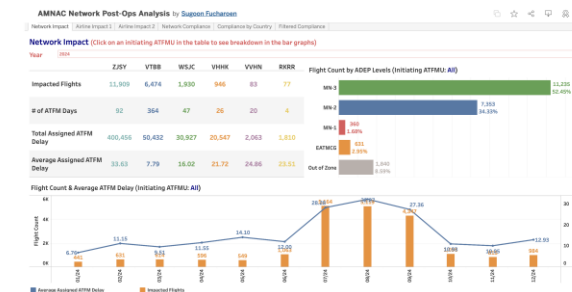
Delay Absorption Intent  
(Phases of Flight)

Not yet implemented  
FF-ICE dependency?



Distributed Multi-Nodal ATFM Network

Network of FMPs & ATFMUs



Post-Operations Analysis

Total ATFM Delay, bottleneck & resolution

2  
APAC  
Regional  
ATFM  
Framework

2022



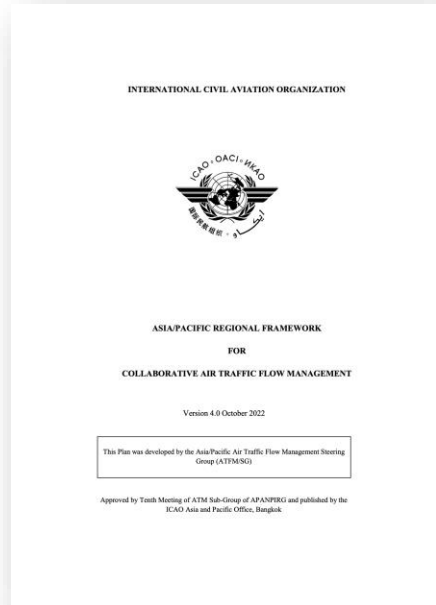
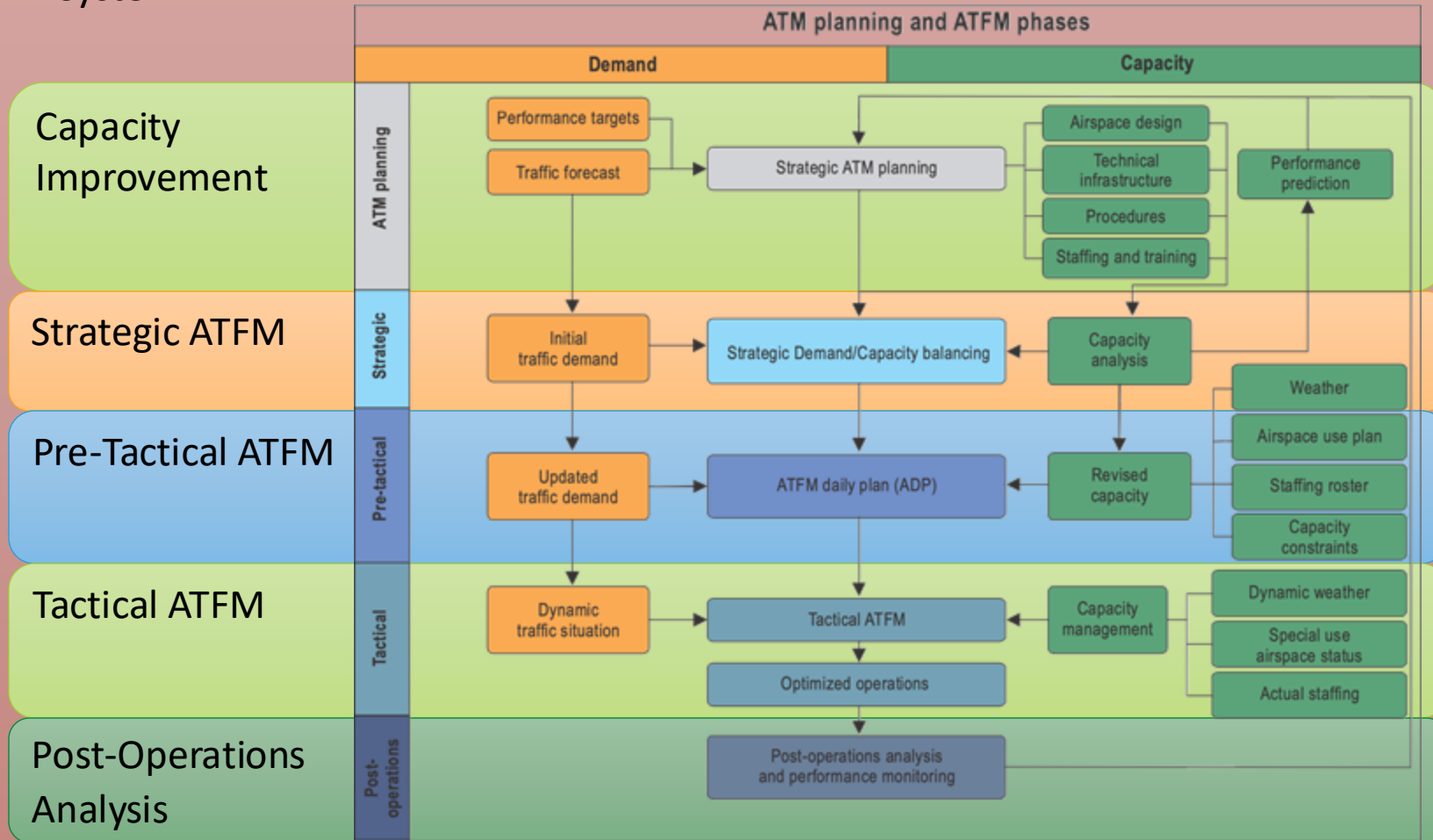
**ASIA/PACIFIC REGIONAL FRAMEWORK**  
**FOR**  
**COLLABORATIVE AIR TRAFFIC FLOW MANAGEMENT**

Version 4.0 October 2022

# ICAO APAC Regional Framework for Collaborative ATFM v4 (2022)

## ATFM Regulation

### ATFM System



## Implementation Phases:

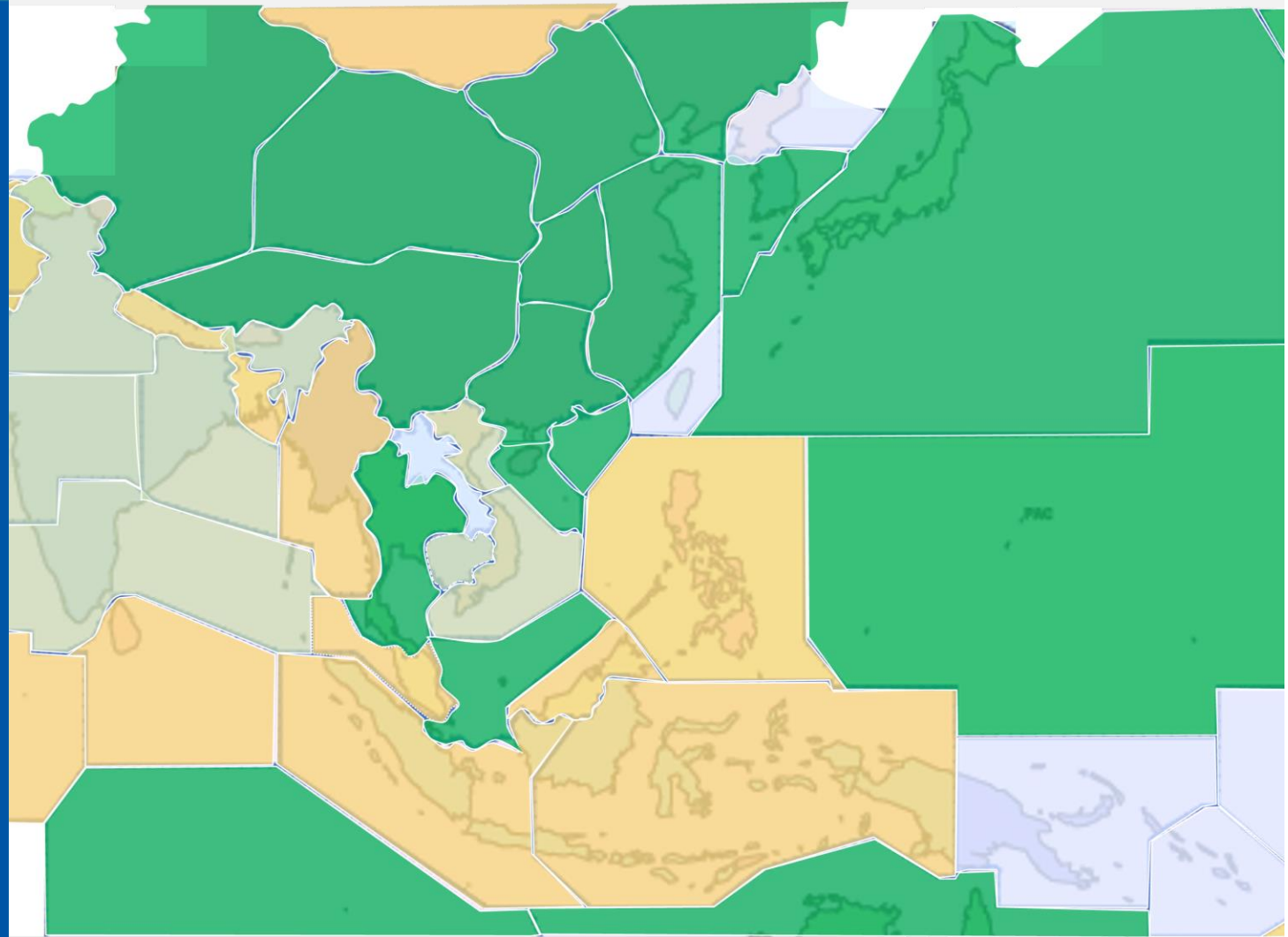


Phase I – III A  
 Nov 2015 – Nov 2022

Phase III B  
 Nov 2025

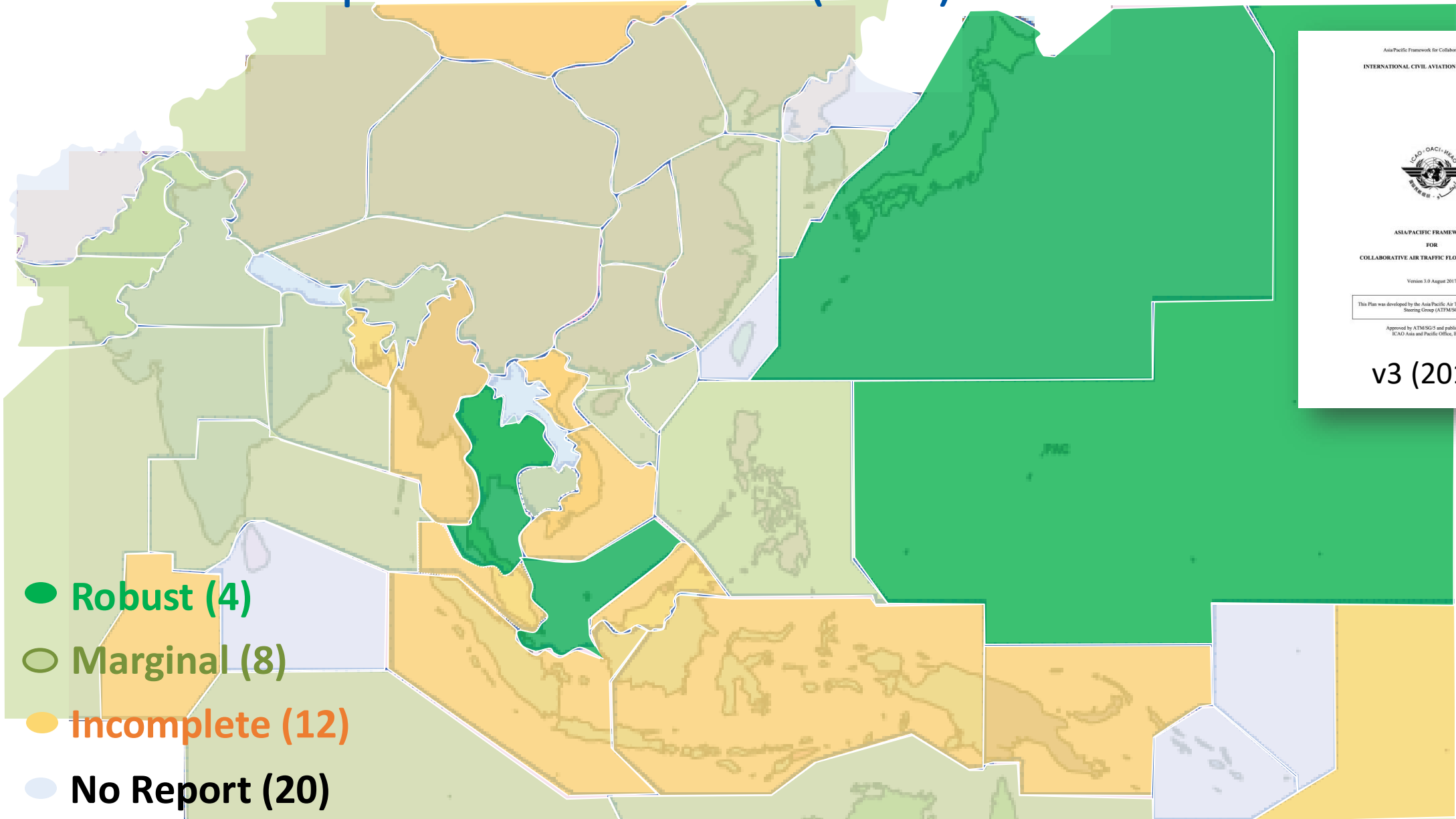
3  
APAC  
Regional  
ATFM Status

2022 - 2024



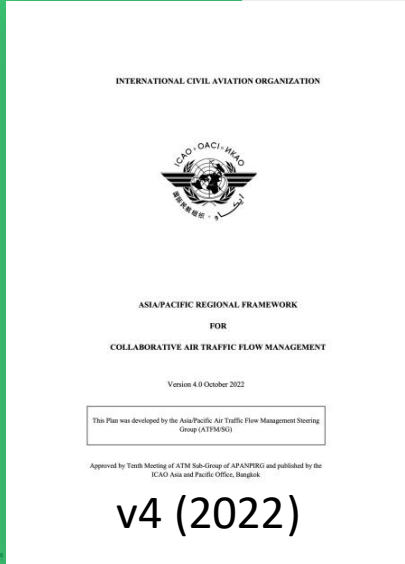
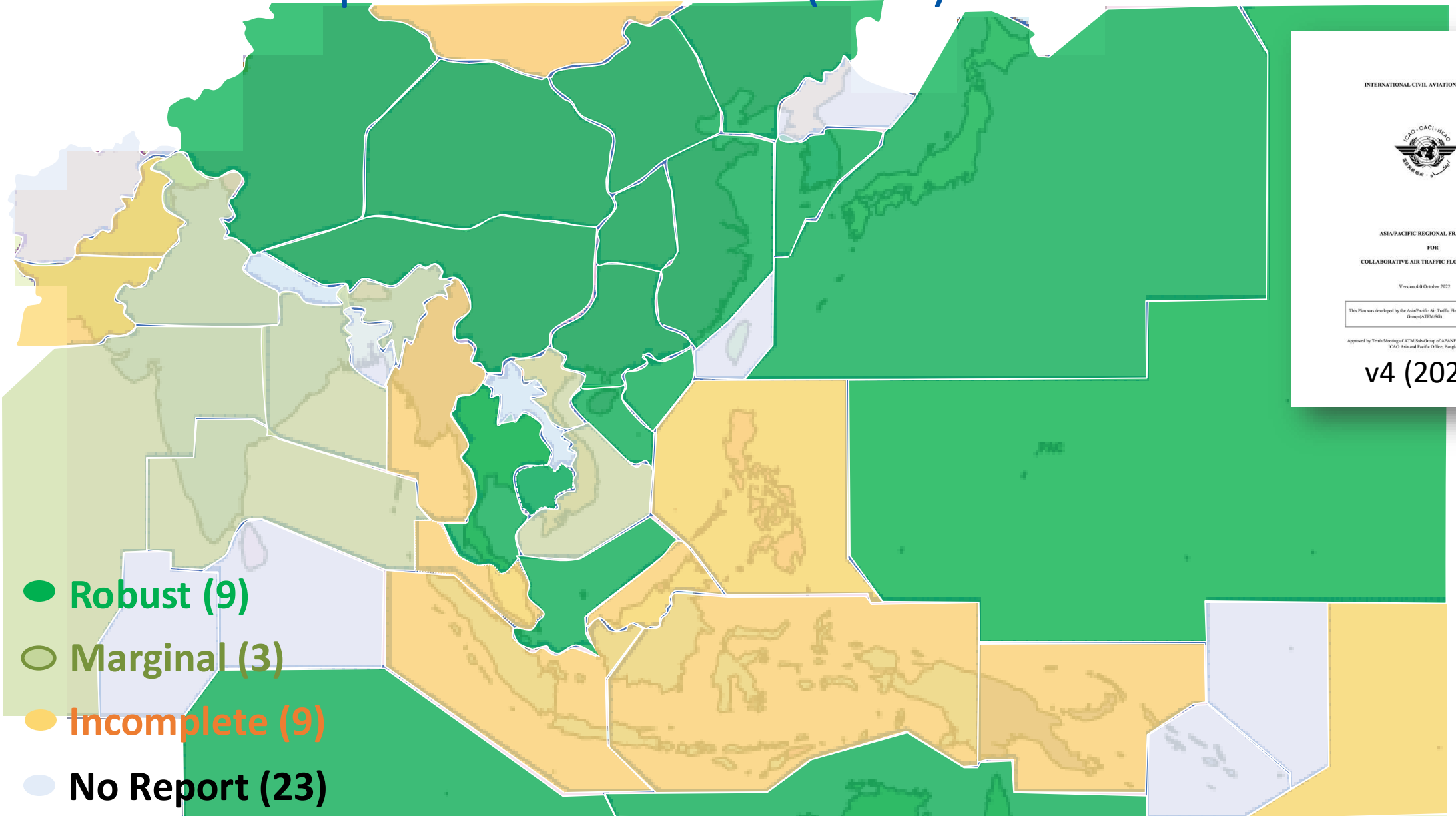


# APAC ATFM Implementation Status (2022)

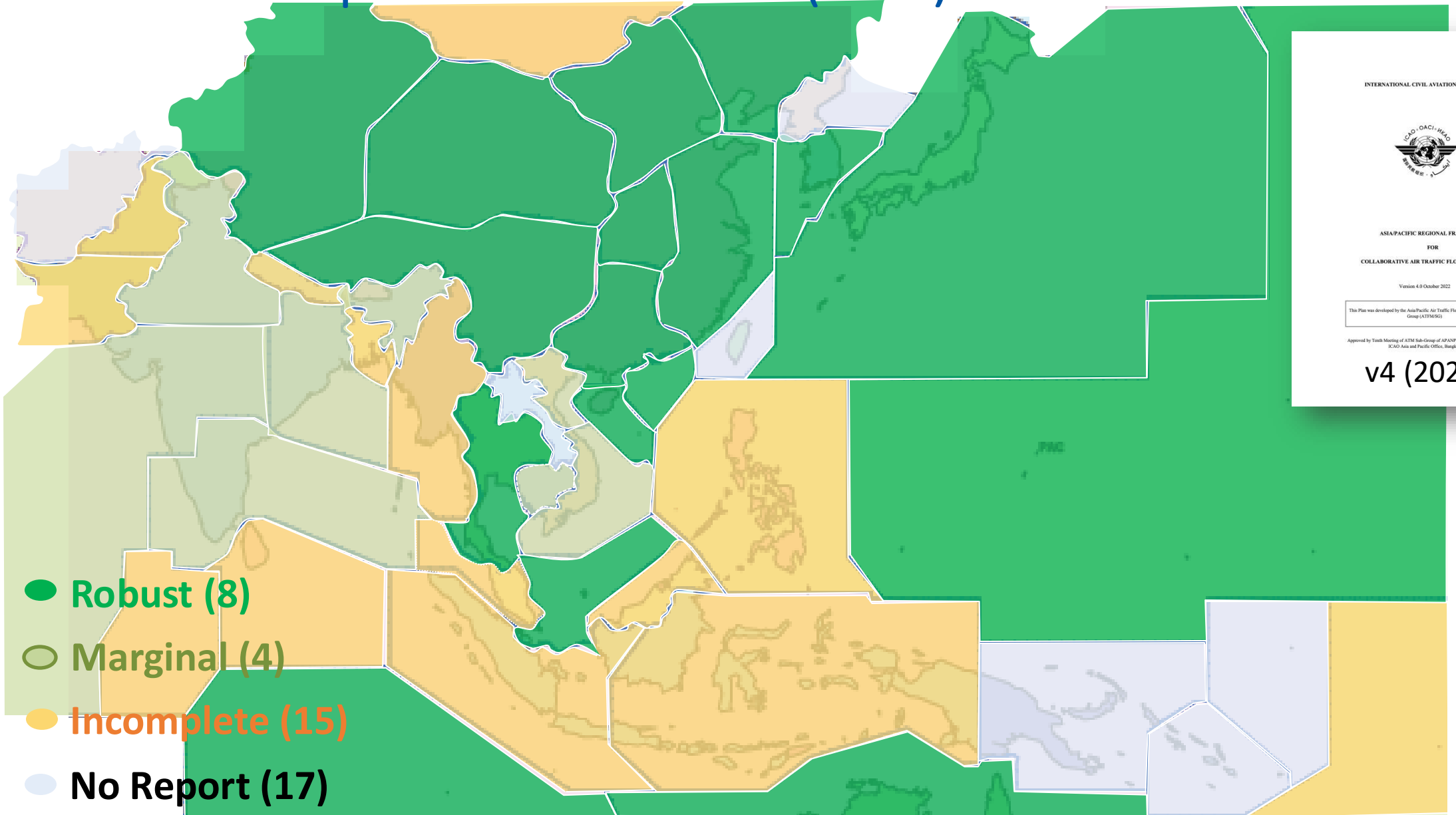


- Robust (4)
- Marginal (8)
- Incomplete (12)
- No Report (20)


# APAC ATFM Implementation Status (2023)



# APAC ATFM Implementation Status (2024)



INTERNATIONAL CIVIL AVIATION ORGANIZATION



ASIA-PACIFIC REGIONAL FRAMEWORK  
FOR  
COLLABORATIVE AIR TRAFFIC FLOW MANAGEMENT

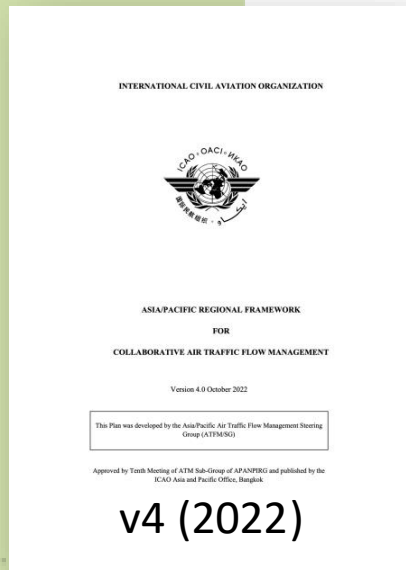
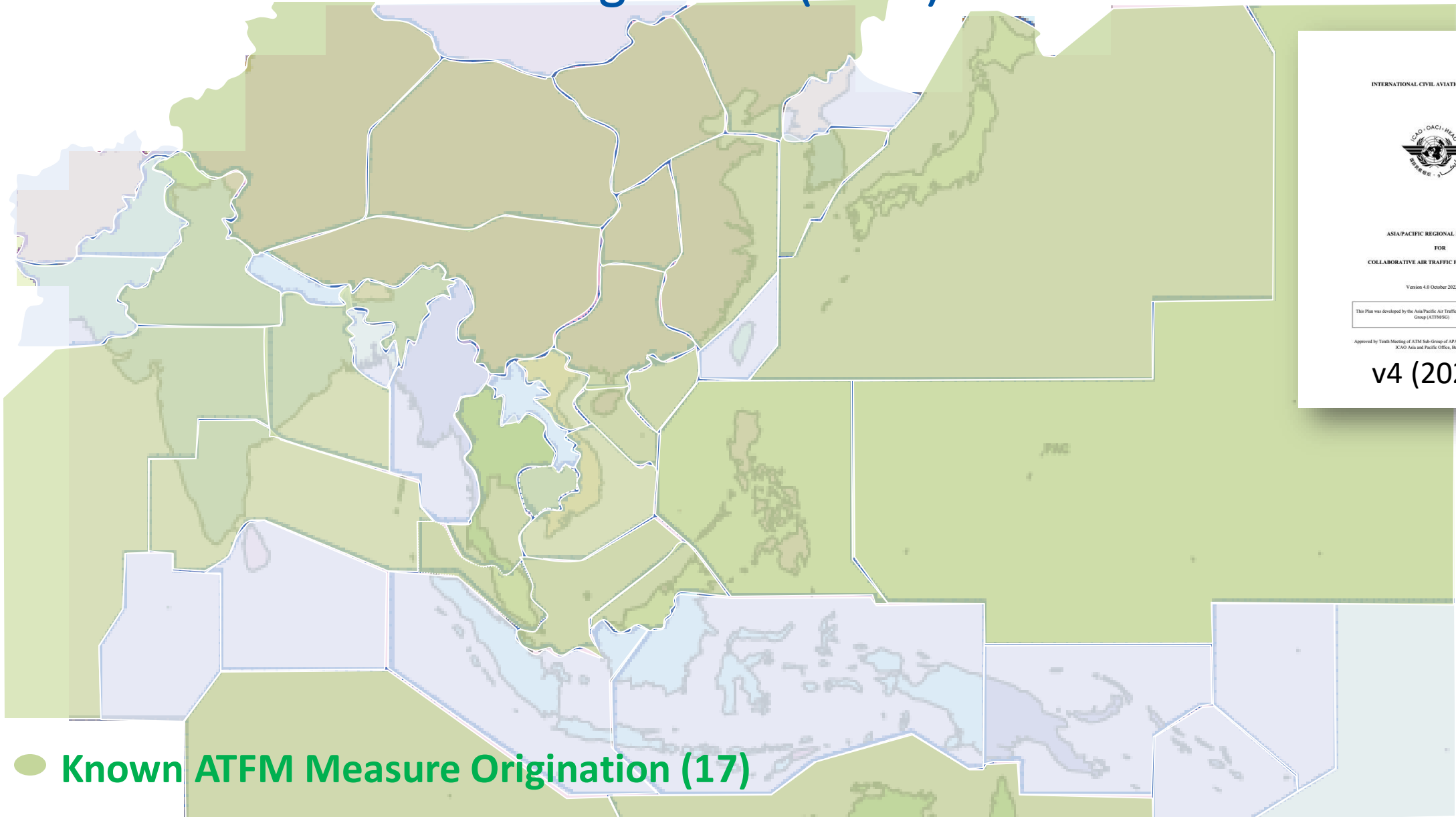
Version 4.0 October 2022

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Approved by Sixth Meeting of ATM Sub-Group of APANPRG and published by the ICAO Asia and Pacific Office, Bangkok

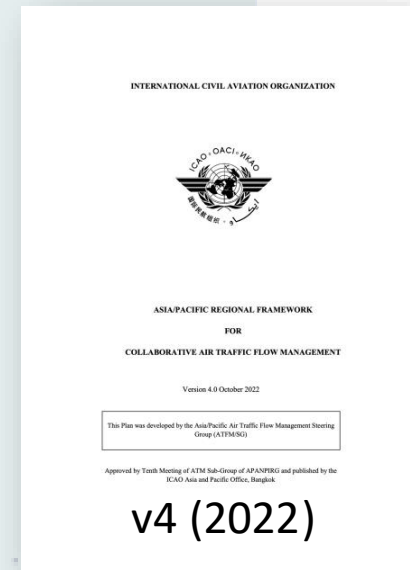
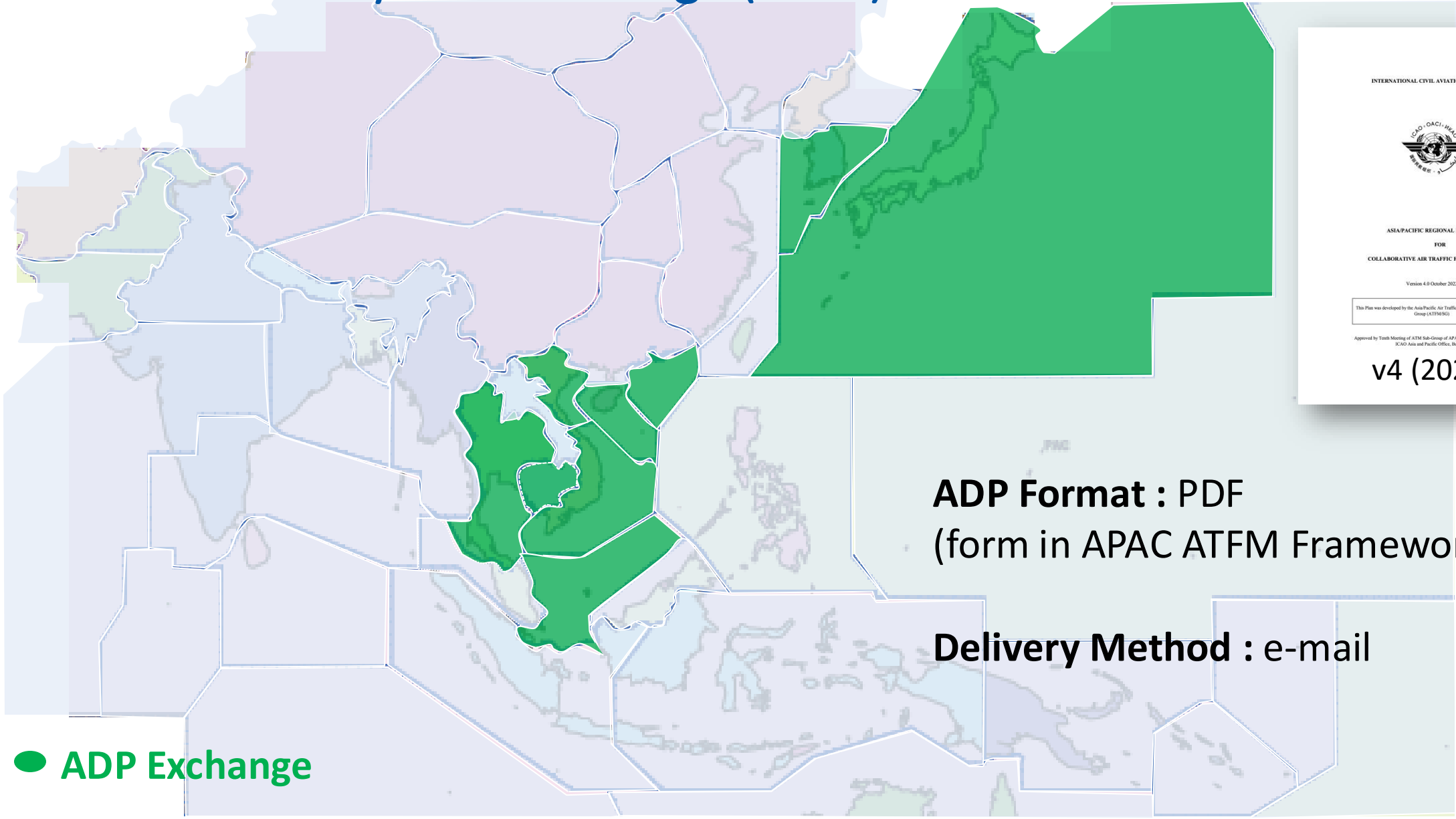
**v4 (2022)**

# Known ATFM Measure Origination (2024)



● Known ATFM Measure Origination (17)

# APAC ATFM Daily Plan Exchange (2024)



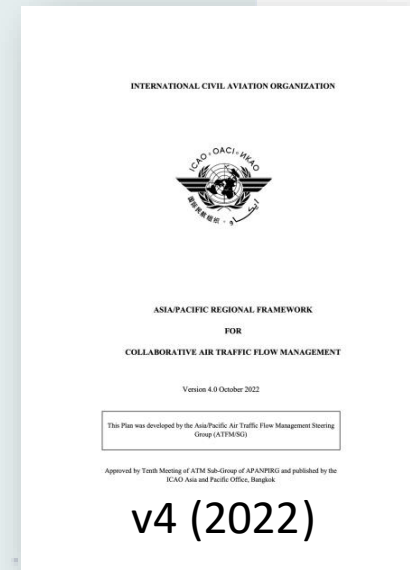
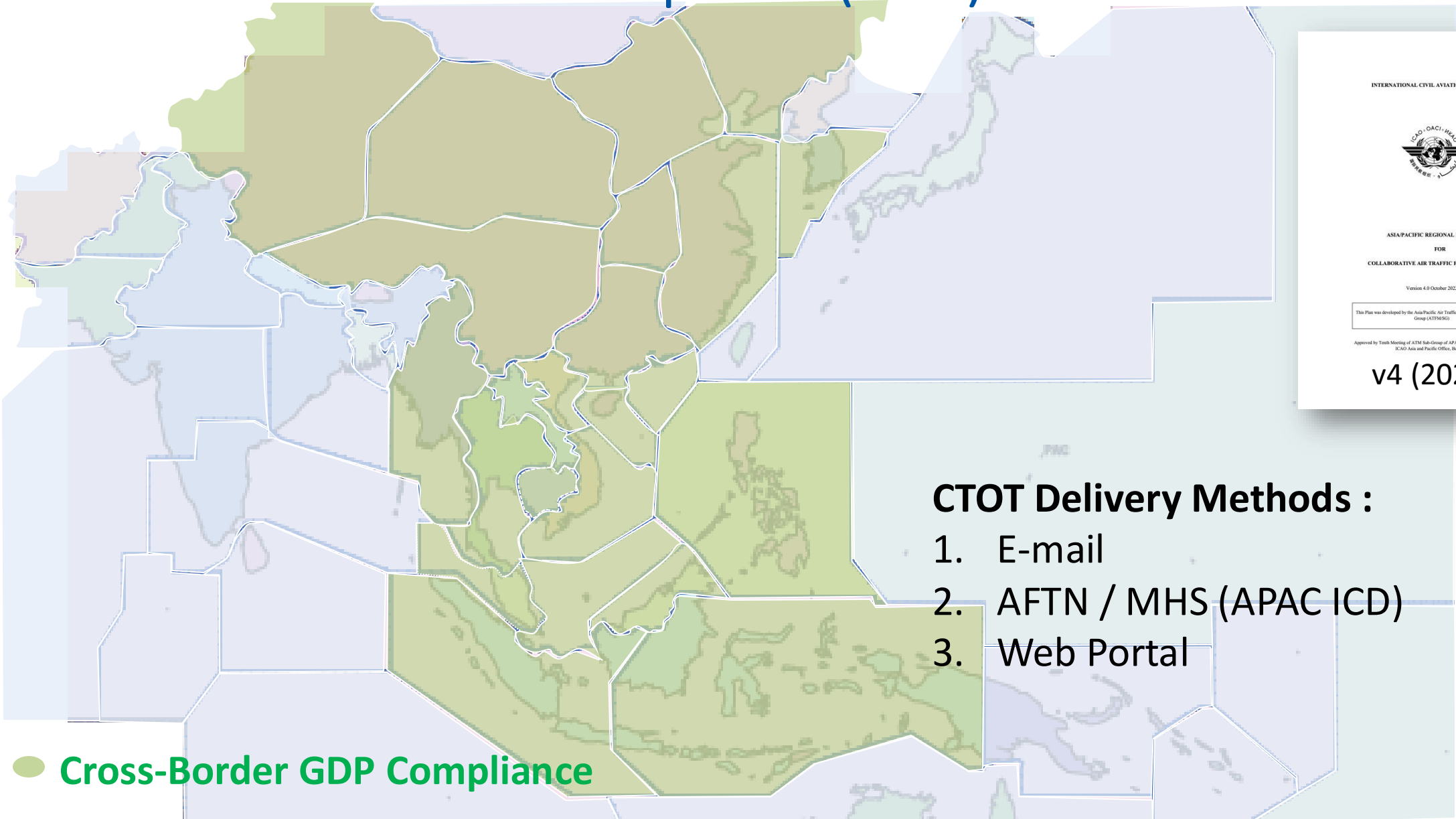
**ADP Format : PDF**  
(form in APAC ATFM Framework)

**Delivery Method : e-mail**



● **ADP Exchange**

# APAC Cross-Border GDP Compliance (2024)

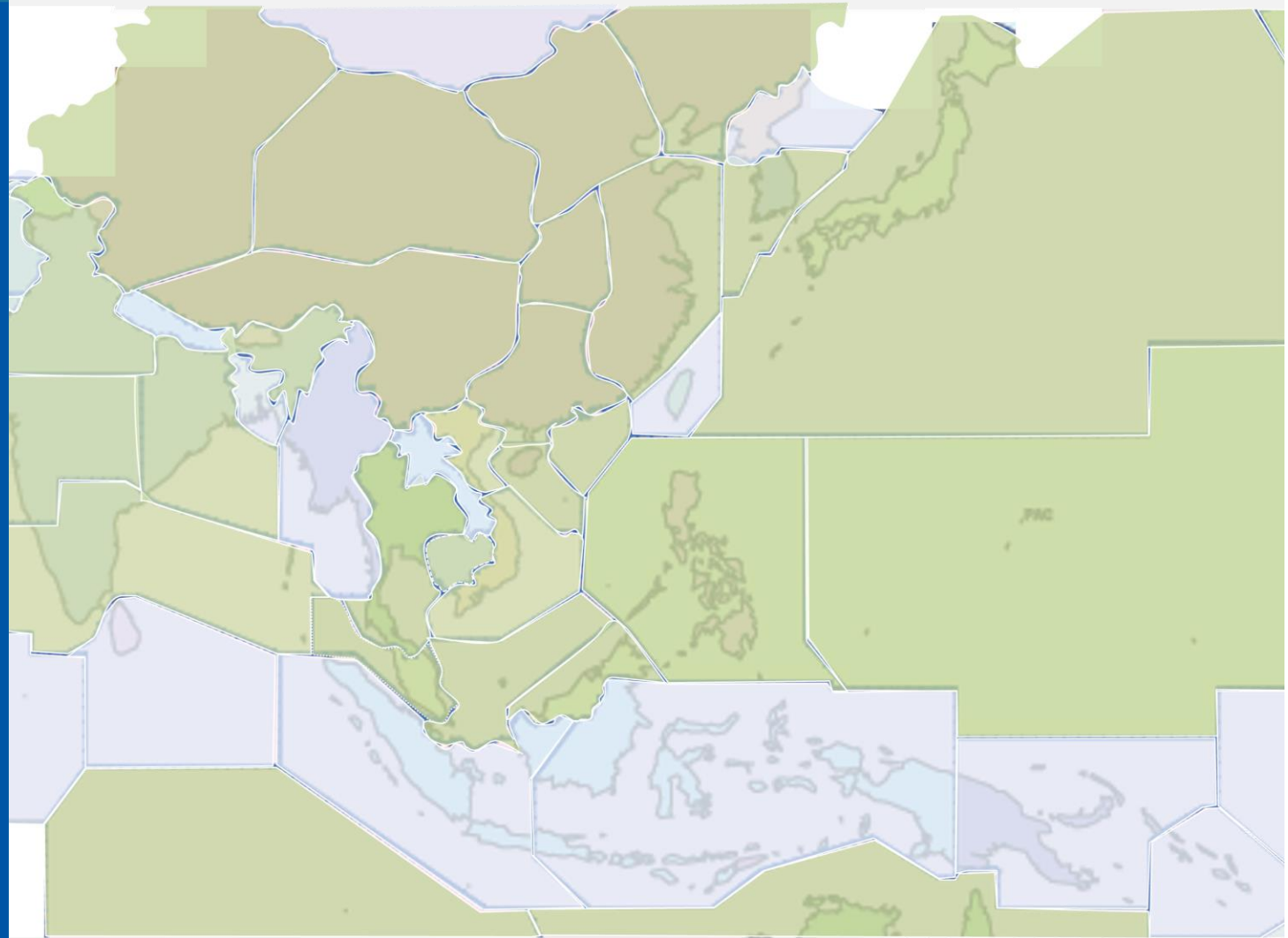


## CTOT Delivery Methods :

1. E-mail
2. AFTN / MHS (APAC ICD)
3. Web Portal

# 4 APAC ATFM Observations

2025



## APAC ATFM – Challenges



State/Administration  
Status Reporting



ATFM Measure  
Compliance



Conflicting ATFM  
Measure & Transparency



Post-Operations  
Analysis



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# Thank You

