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Agenda Item 9: Beijing Declaration

Where Does APAC Stand with the Beijing Declaration Commitments?

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Chief of ICAO Asia and Pacific Regional Sub-Office (APAC RSO)



Seoul, Republic of Korea, July 2022



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First Asia/Pacific Ministerial Conference on Civil Aviation

- ✈ Held in Beijing, China from 31 January to 1 February 2018.
- ✈ Organized by ICAO and hosted by the Civil Aviation Administration of China (CAAC).
- ✈ Attended by 32 Member States of the APAC Region, 4 Member States (France, Russian Federation, United Kingdom and United States) of other Regions and representatives of 6 international organizations.





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Highlights

- ✈ Main challenges in aviation safety, air navigation services and accident investigation in the Region were highlighted.
- ✈ Main outcome of the conference was the endorsement of the 'Declaration on Asia/Pacific Ministerial Conference on Civil Aviation'.
- ✈ Unanimously agreed by all the Delegations.





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Intended Benefits of the Declaration

- ✈ First high-level Regional Commitment on Safety & ANS
- ✈ Benchmark for States to assess progress
- ✈ Strong support to the Civil Aviation Authorities
- ✈ Demonstrate High level commitment to public, industry and investors



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Status of APAC States vis-à-vis Beijing Declaration Commitments

DGCA—57/DP/9/1

- ✈ 1. Aviation Safety
 - ✈ 2. Air Navigation Services
 - ✈ 3. Accident Investigation
- All details are given in the DP DGCA-57/DP/9/1

57th CONFERENCE OF
DIRECTORS GENERAL OF CIVIL AVIATION
ASIA AND PACIFIC REGIONS

*Incheon, Republic of Korea
4 – 8 July 2022*

AGENDA ITEM 9 : DECLARATION OF ASIA PACIFIC
MINISTERIAL CONFERENCE ON
CIVIL AVIATION – BEIJING

**WHERE DOES APAC STAND WITH THE BEIJING
DECLARATION COMMITMENTS?**

Presented by the ICAO Secretariat

SUMMARY

Through the adoption of the Beijing Declaration at the first APAC Ministerial Conference on Civil Aviation in January 2018, all the Delegations committed to improve the Aviation Safety and Air Navigation Services. This paper is giving information on the current implementation status of the States' commitments in the APAC region.



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Aviation Safety

a) USOAP Effective Implementation (EI)

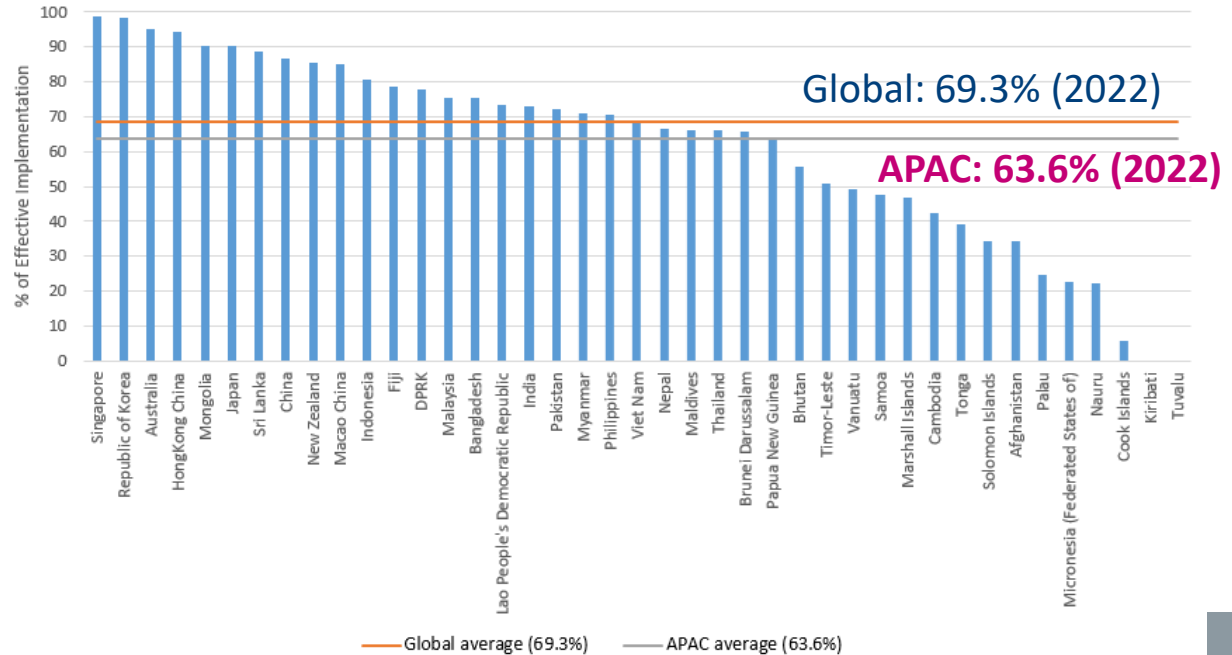


USOAP EI \geq global average by 2022



Indicator: National Effective Implementation percentage
Source: iSTARS (USOAP Data Tables Implementation Indicators)

USOAP Effective Implementation in APAC





Aviation Safety

a) USOAP Effective Implementation (EI)

Progress since DGCA56 in 2019:

✈ EI Global average:
from **68%** to **69.3%**

✈ EI APAC average:
from **63%** to **63.6%**

=> Commitment not met

State / EI %	Before	After	USOAP conducted	Trend
Afghanistan	-	34.17	2019	↑
Tonga	34.23	39.32	2019	↑
Fiji	63.95	78.72	2019	↑
Malaysia	74.97	75.44	2020	↑
Myanmar	70.67	71.06	2020	↑
Sri Lanka	88.4	88.7	2020	↑
Thailand	65.87	66.12	2021	↑
Pakistan	83.31	72.31	2021	↓



Aviation Safety

b) State Safety Programme (SSP)



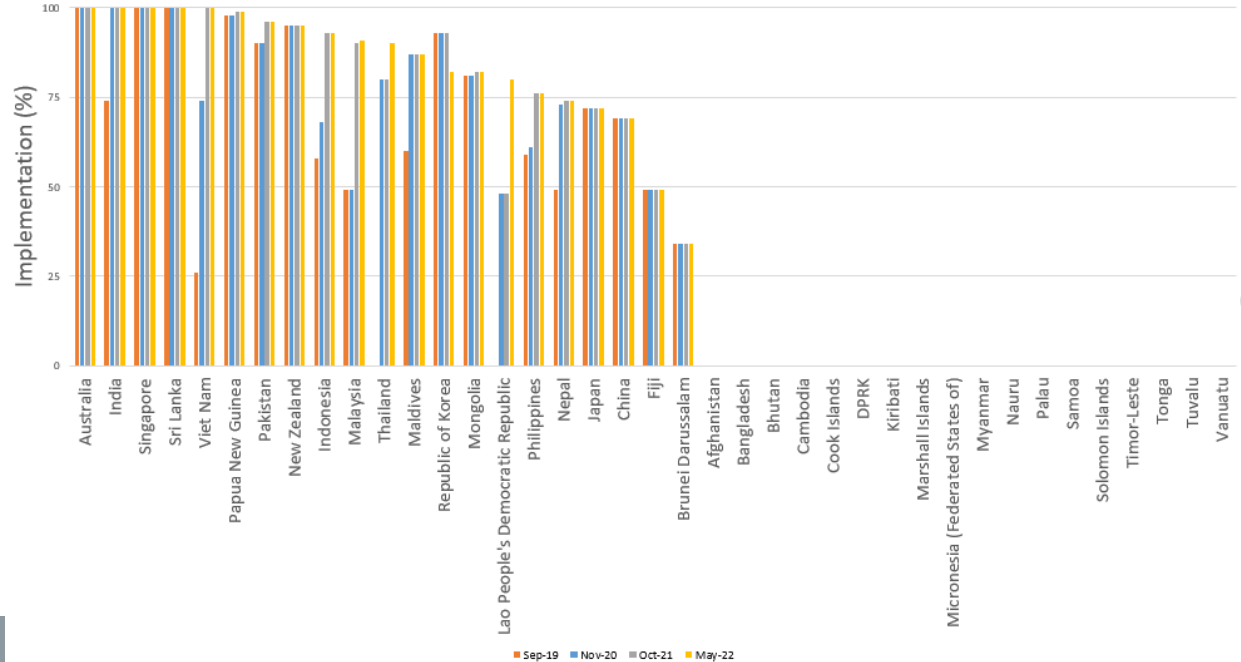
Implement an effective SSP by 2025



Indicator: National effective SSP implementation

Source: iSTARS (SSP Gap Analysis - SMM 4th Ed.),

APAC States having implemented SSP





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Aviation Safety

b) State Safety Programme (SSP)

- ✈ Situation in July 2022:
 - ✈ 5 States 100% completed (Australia, India, Singapore, Sri Lanka, Vietnam)
 - ✈ 16 States being in progress
 - ✈ Other States have not started



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Aviation Safety

c) Significant Safety Concerns (SSCs)



Endeavour not to have any Significant Safety Concerns (SSCs) under the USOAP Continuous Monitoring Approach (CMA), and to resolve any future SSCs within the time frame agreed with ICAO

One APAC State has a SSC in Air Navigation



Aviation Safety

d) Certification of international aerodromes

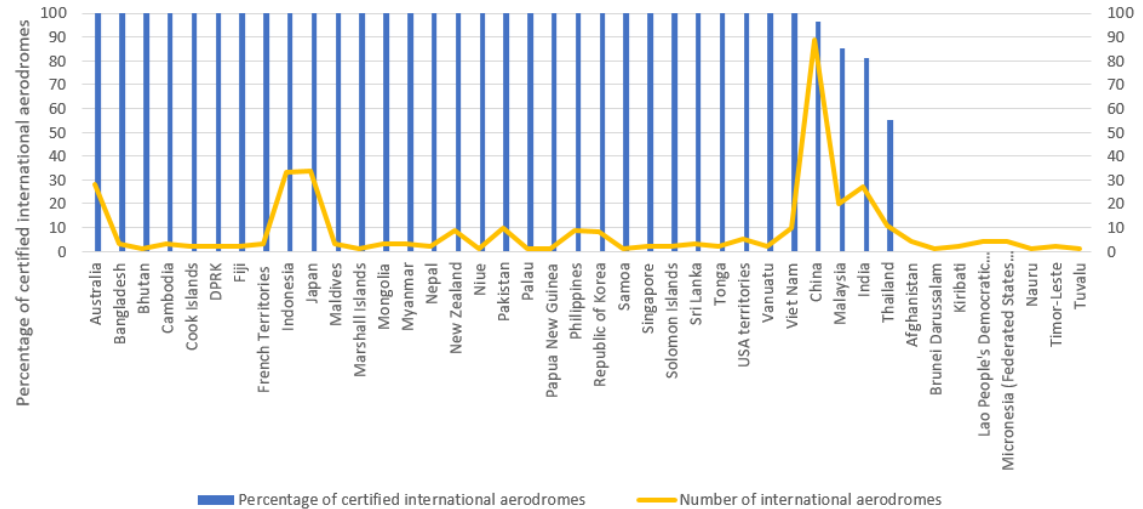


Certify all aerodromes used for international operations **by 2020**



Aerodromes Operations and Planning Sub-Group (AOP/SG/5)

Certified International Aerodromes in APAC



It has been improved to **90%** (320 aerodromes out of 355)



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Aviation Safety

d) Certification of international aerodromes

Among all the 355 international aerodromes, only 76% are listed in the APAC Air Navigation Plan (ANP)

Recommendation :

States are encouraged to submit Proposal for Amendment (PfA) to amend APAC ANP for this purpose.



Accident Investigation

e) Independent Aircraft Accident and Incident Investigation Authority (AAIAA)

- ✈ States are encouraged to establish the independent accident investigation authority **(AAIAA) by the target date of 2022.**
- ✈ Target has been added into the Asia Pacific Regional Aviation Safety Plan (AP-RASP) 2020-2022 on 24 Feb 2020:

- “States should establish an independent aircraft accident and incident investigation authority **(AAIAA) as required by Annex 13**, as well as related investigation system and procedures **by 2022**”

Air Navigation Services

a) Aeronautical Information Management (AIM) (1/3)



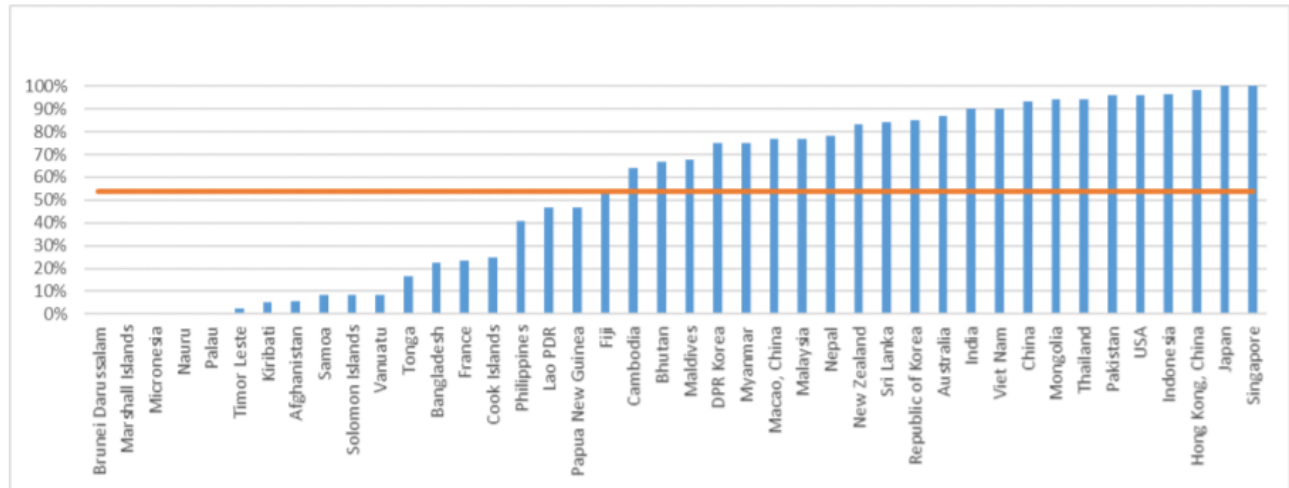
Transitioning from
AIS to AIM
by 2022
(Phase I and II)



Regional AIM Plan
Monitoring and
Reporting

📍 Phase I (Consolidation existing SARPS)

- immediate implementation
- current status = 55 % (54% in 2021)



Air Navigation Services

a) Aeronautical Information Management (AIM) (2/3)

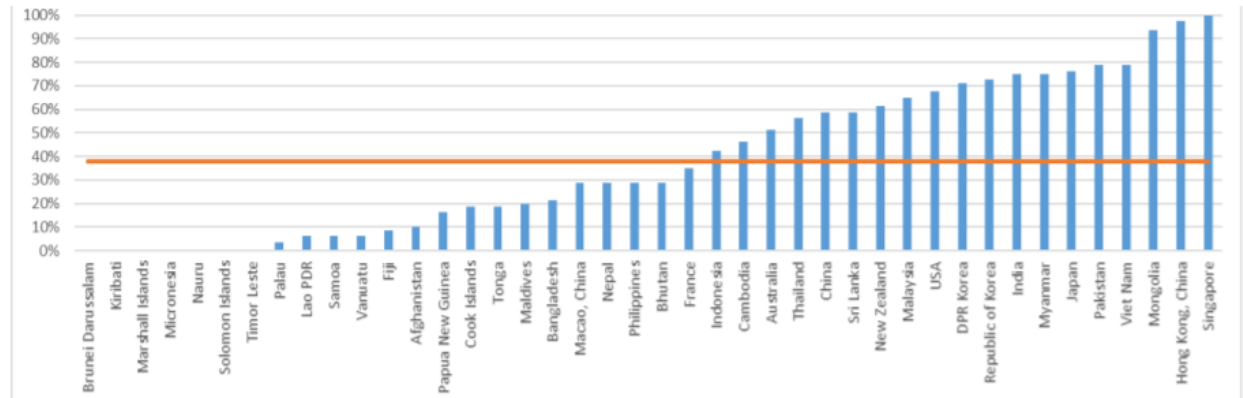


Transitioning from
AIS to AIM
by 2022
(Phase I and II)



Regional AIM Plan
Monitoring and
Reporting

- Phase II (Going Digital)
 - target November 2019
 - current status = 40% (38% in 2021)
- Overall Phase 1 & 2= 49% (48% in 2021)



Air Navigation Services

a) Aeronautical Information Management (AIM) (3/3)



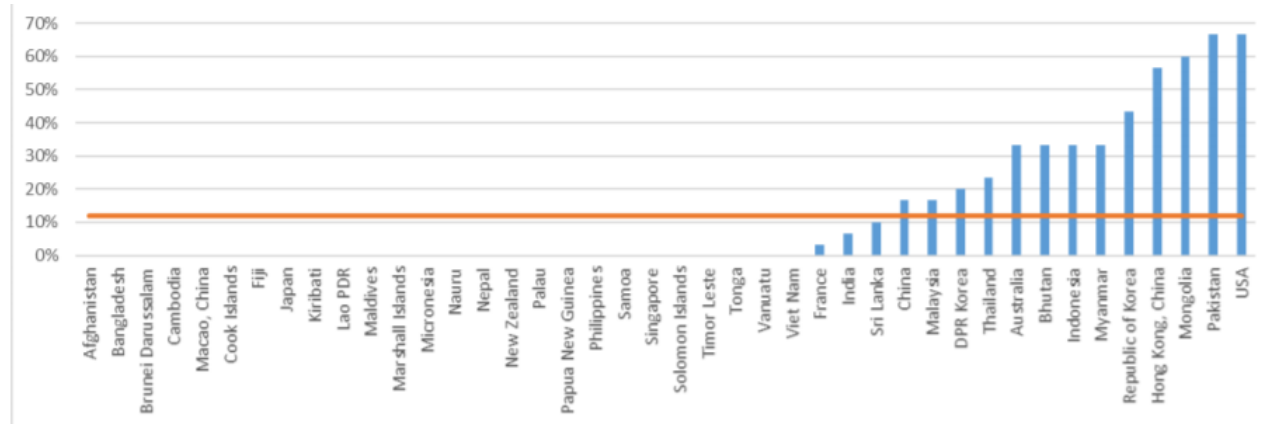
Transitioning from
AIS to AIM
by 2022
(Phase I and II)



Regional AIM Plan
Monitoring and
Reporting

🌐 Phase III (including SWIM-dependent AIM)

- Target November 2025
- current status = 13 % (12% in 2021)



Air Navigation Services

a) Aeronautical Information Management (AIM) (3/3)

Poor implementation of AIM across the APAC Region.

ICAO Regional Office remains very concerned by the widespread lack of State and ANSP organizational understanding of the safety-critical need for robust, quality-managed AIS/AIM implementation.



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Air Navigation Services

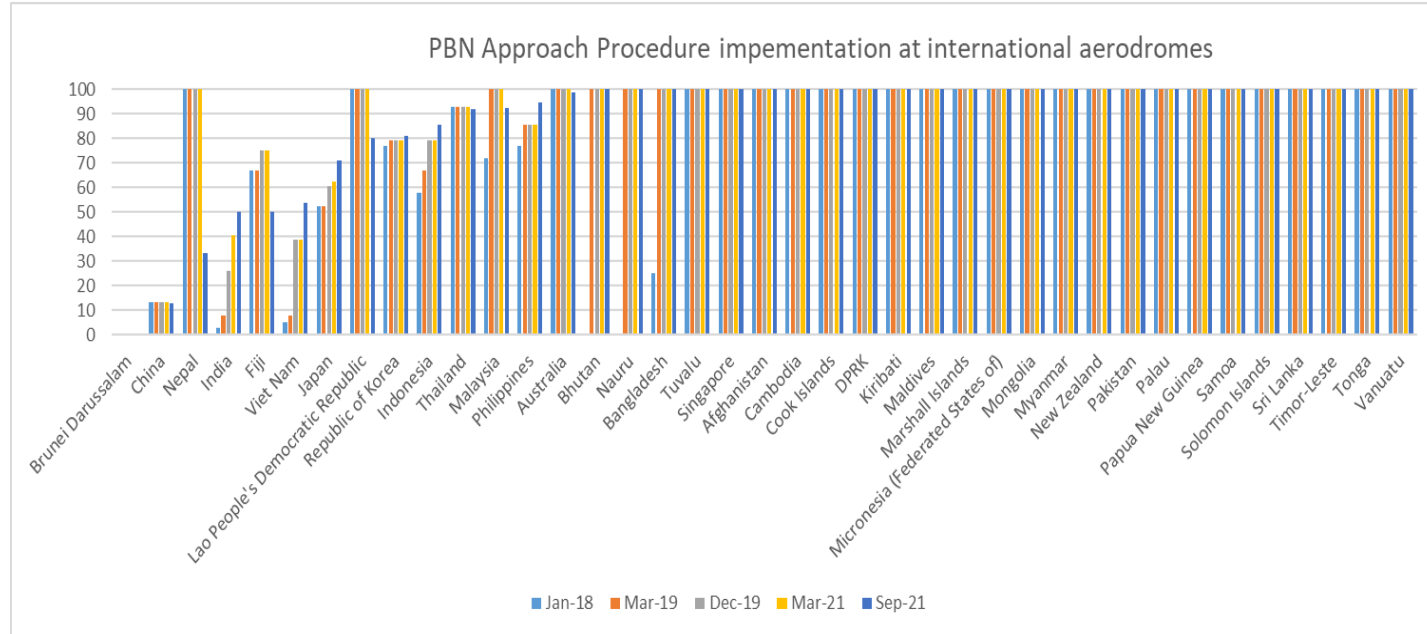
b) Performance Based Navigation (PBN)



PBN implementation by 2022



% PBN and %SID/STAR at intl runway ends iSTARs and Jeppesen

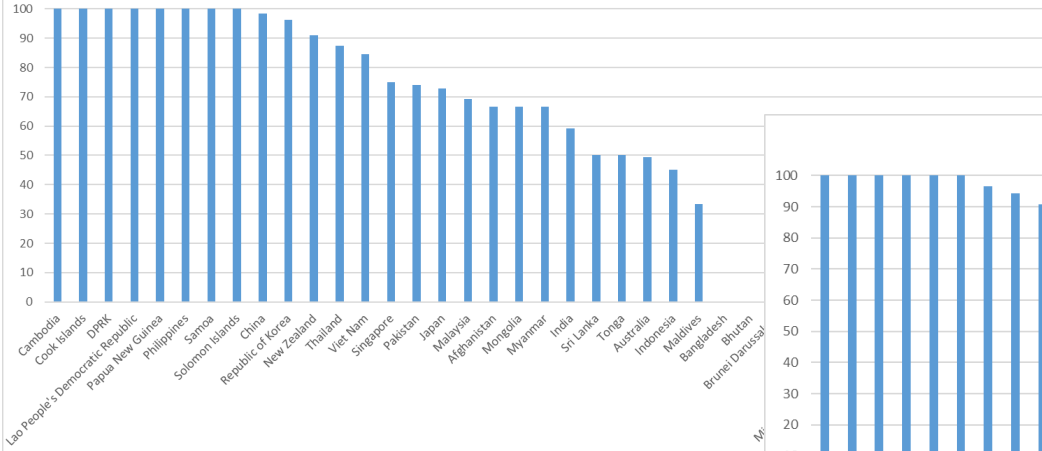


Air Navigation Services

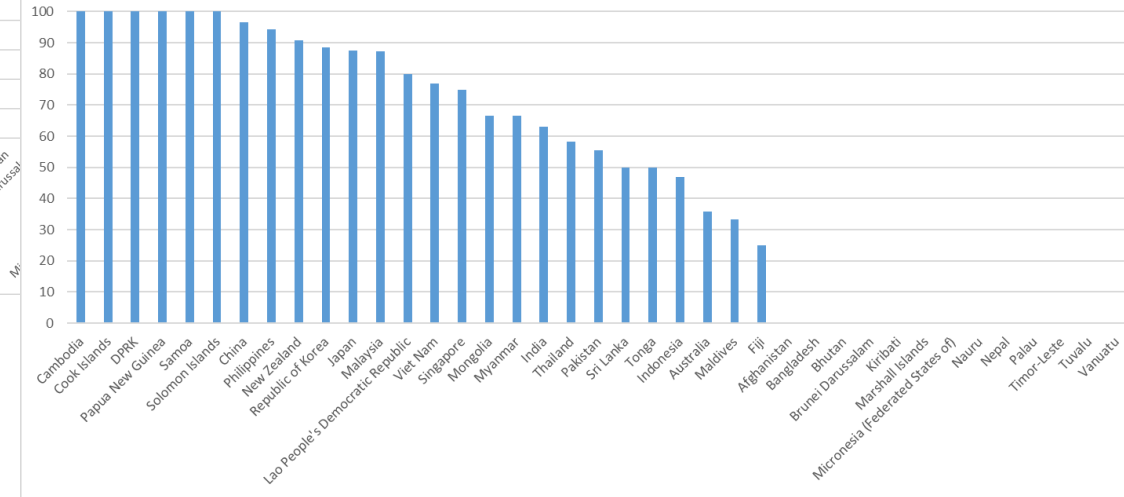
b) Performance Based Navigation (PBN)



PBN SID implementation at international aerodromes



PBN STAR implementation at international aerodromes





Air Navigation Services

c) Ground telecommunication infrastructure



Common ground/ground telecommunication infrastructure to support ANS applications by 2022



CNS Meetings

- ✈️ **14 States/Administrations** (compared to 11 last year) have joined Common aeronautical VPN (**CRV**) and implemented operations: Australia, Bhutan, China, Hong Kong China, Fiji, Japan, Malaysia, New Zealand, Philippines, PNG, Republic of Korea, Singapore, Thailand and USA;
- ✈️ **Additional 4 States** (India, Indonesia, Nepal, and Sri Lanka) have joined CRV, while installation is in progress



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Air Navigation Services

c) Ground telecommunication infrastructure



Common ground/ground telecommunication infrastructure to support ANS applications by 2022



CNS Meetings

- ✈ Aeronautical Message Handling System (AMHS) with File Transfer Body Parts (FTBP) function for IWXXM data
- ✈ 28 States/Administrations have implemented AMHS



Air Navigation Services

d) Civil Military Cooperation



An enhanced level of civil/military cooperation by 2022



Seamless ATM reporting (Nov. 2020)



Given that lack of civil/military cooperation is a significant factor in the Asia/Pacific's relatively poor ATM efficiency compared to more developed areas of the world, the regional progress is well behind expectation for these elements.



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Air Navigation Services

e) Surveillance capability



Enhanced surveillance capability including ADS-B technology by 2022



CNS meetings

31 States/Administrations (30 last year) installed ADS-B ground stations and

12 States (same) issued ADS-B mandate

8 States (same) used ADS-B for separation and others for awareness, gap filling and redundancy.

Air Navigation Services

f) Air Traffic Flow Management (ATFM) / Collaborative Decision Making (CDM)



ATFM/CDM
implementation for high
density airports by 2022



Regional ATFM Plan
Monitoring and Reporting,
APAC A-CDM Implementation
Survey and APA-CDM/TF/6
Meeting

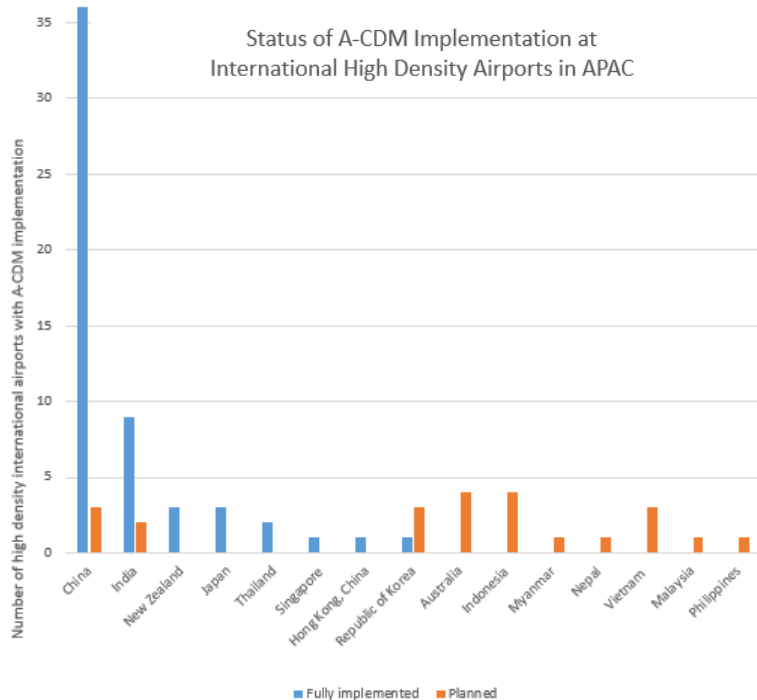
Two indicators have been selected:

- Number of international high density airports with Airport-CDM implemented, and
- High density FIRs and FIRs supporting Major Traffic Flows and high density aerodromes with ATFM/CDM implemented
 - High density airport = airport with 100,000 scheduled movement per annum or more (APAC Seamless ANS Plan)



Air Navigation Services

f) Air Traffic Flow Management (ATFM) / Collaborative Decision Making (CDM)



Total number of international high density airports = **73** (pre COVID-19)

56 of them (55 international + 1 domestic) had implemented A-CDM (49 last year)

23 have planned to implement A-CDM.

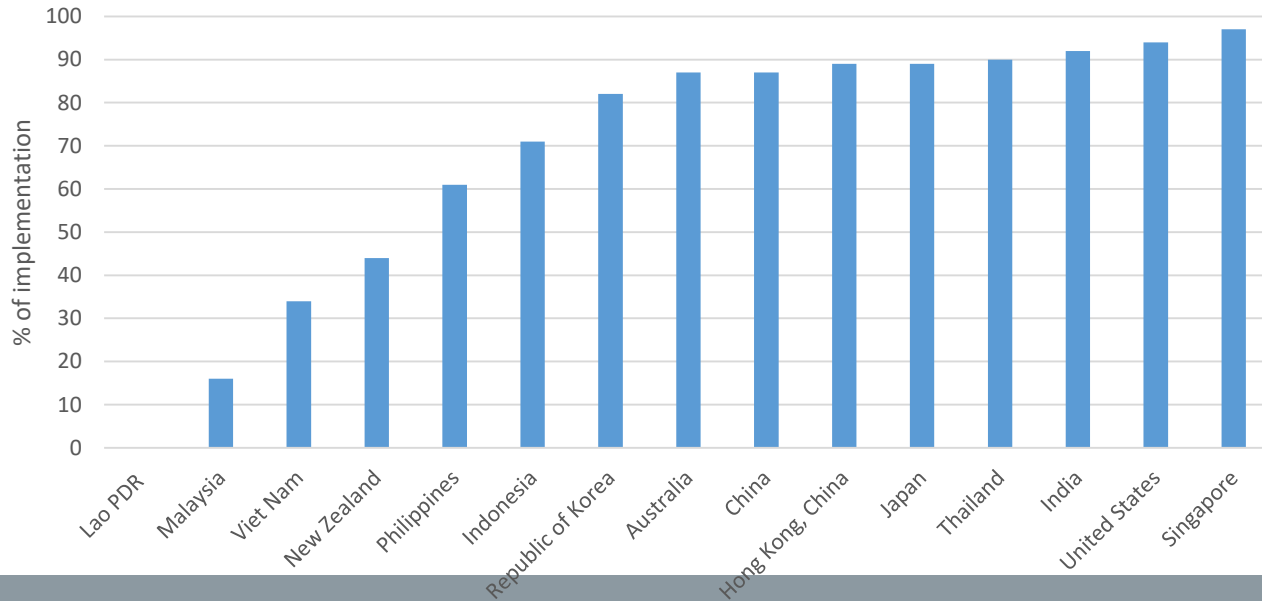


Air Navigation Services

f)

Air Traffic Flow Management (ATFM) / Collaborative Decision Making (CDM)

% of High Density FIRs supporting busiest APAC flows and High density aerodromes using ATFM/CDM





Air Navigation Services

g) National Air Navigation Plan



Include air navigation in national planning frameworks such as National Development Plans (NDPs) supported by National Air Navigation Plans by 2022

Few States have reported to the Regional Office having developed or commenced a National Air Navigation Plan (NANP)

- ❖ A template is now available on APAC eDocuments web-page, under the ATM section (Seamless ANS Plan sub-section).
- ❖ No common NANP reporting form due to one State's disagreement



Number of States reporting National Air Navigation Plan (NANP)



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Implementation of Beijing Declaration commitments

- ✈ ACTION BY THE CONFERENCE
- ✈ The Conference is invited to:
 - ✈ a) Note the information contained in the Paper;
 - ✈ b) Encourage States to expedite the certification of aerodromes used for international operations and not yet certified;
 - ✈ c) Encourage States to collaborate and rigorously work towards achieving the commitments of the Beijing Declaration.