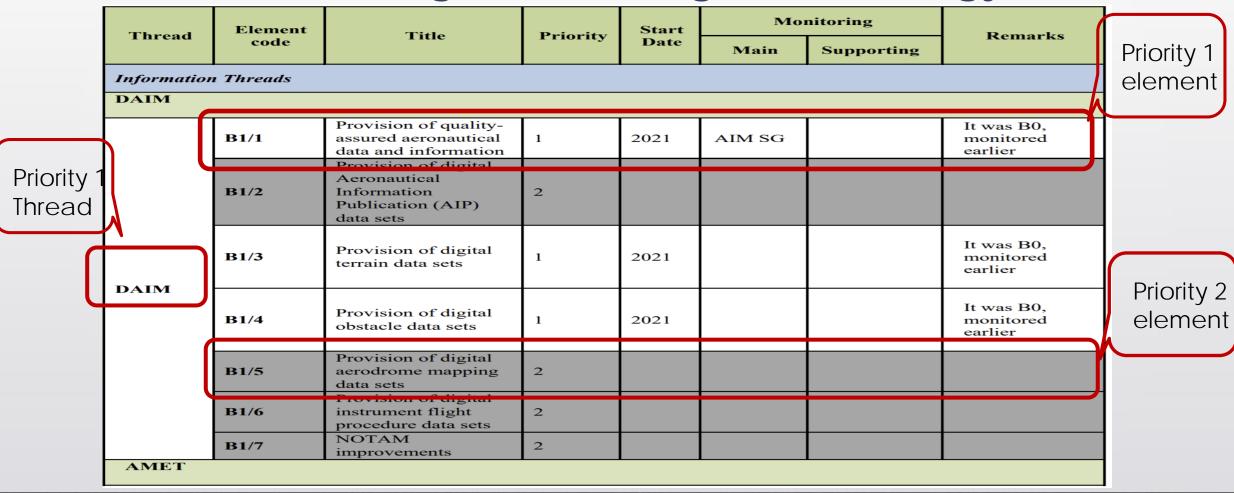
Status of Implementation of ASBU Threads/ Elements related to CNS

CNS SG/11

Oman - Muscat (16-19 May 2022)

Presented by the Secretariat

- MIDANPIRG/18 endorsed the Revised MID Region Air Navigation Strategy (ICAO MID 002) inline with the GANP 6th edition;
- Priority 1 ASBU Element: Elements that have the highest contribution to the improvement of air navigation safety and/or efficiency in the MID Region. These Elements should be implemented where applicable and will be used for the purpose of regional air navigation monitoring and reporting.
- Priority 2 ASBU Element: Elements recommended for implementation based on identified operational needs and benefits by States.
- Priority 1 Thread: Any Thread with at least one priority 1 element



		OLUMIN OLUMIN			
COMS					
COMS	B0/1	CPDLC (FANS 1/A & ATN B1) for domestic and procedural airspace	2		
	B0/2	ADS-C (FANS 1/A) for procedural airspace	2		
	B1/1	PBCS approved CPDLC (FANS 1/A+) for domestic and procedural airspace	2		
	B1/2	PBCS approved ADS-C (FANS 1/A+) for procedural airspace	2		
	B1/3	SATVOICE (incl. routine communications) for procedural airspace	2		

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NAVS						
NAVS B0/3	Aircraft Based Augmentation Systems (ABAS)	All States	Indicator: % of States requiring Aircraft Based Augmentation System (ABAS) equipage for aircraft with a max certificated take-off mass greater than 5,700 Kg to enable PBN Operations Supporting metric: Number of States requiring Aircraft Based Augmentation System (ABAS) equipage for aircraft with a max certificated take-off mass greater than 5,700 Kg to enable PBN Operations	70%	Dec 2021	
NAVS B0/4	Navigation Minimal Operating Networks (Nav. MON)	All States	Indicator: % of States that have developed a plan of rationalized conventional NAVAIDS network to ensure the necessary levels of resilience for navigation Supporting metric: Number of States that have developed a plan of rationalized conventional NAVAIDS network to ensure the necessary levels of resilience for navigation	70%	Dec 2022	

New Threads added

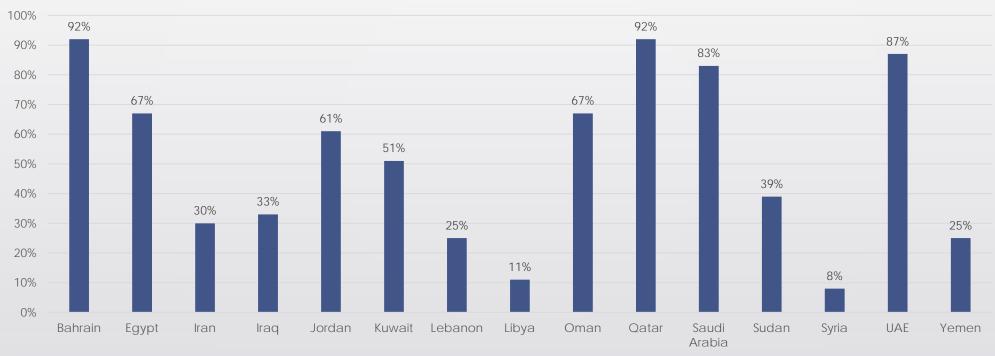
- ➤ Web-based report is https://www.icao.int/MIDANReport/Pages/default.aspx
 - ✓ increase users engagement;
 - ✓ improve information accessibility; and
 - ✓ increase visibility
- ➤ The MID Air Navigation Report 2021 has been developed based on:
 - ✓ States' replies
 - ✓ Outcome of relevant Sub-Groups
 - ✓ MID AN Report 2020
 - ✓ Regional Guidance materials/Doc

Demonstration





Overall Status of Implementation of priority 1 ASBU Threads/Elements in 2021 - by State



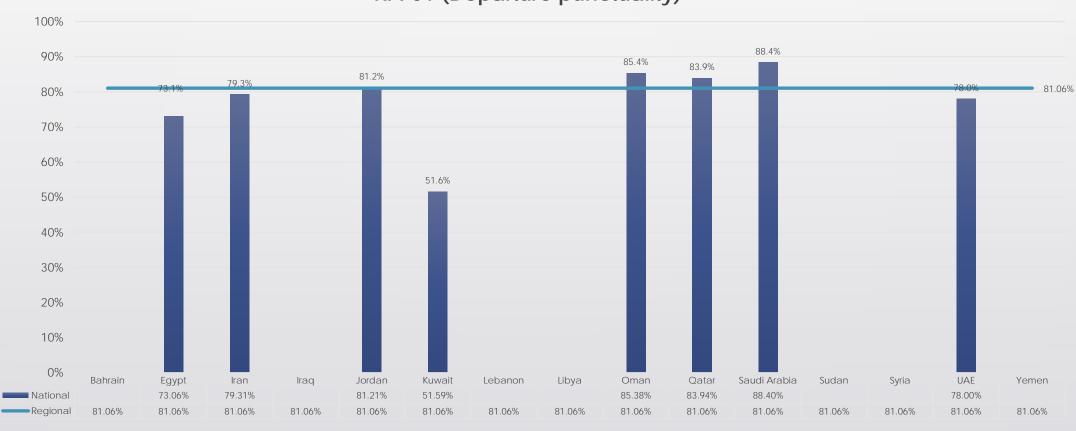
Environment Protection



The estimation has shown a **total of 46207.2 Mt to 96319.2 Mt** of fuel saving in the MID Region, as a result of the implementation of the APTA Thread

- MIDANPIRG/18 endorsed the measurement of initial list of Key Performance Indicators (KPIs) – KPI 01, KPI02, KPI13, KPI14
- month of June and July 2021 will be used for the collection of required data for measuring the selected KPIs
- Eight (8) States have been provided required data (Egypt, Iran, Jordan, Kuwait, Oman, Qatar, Saudi Arabia and UAE)
- The provided data covered seventeen (17) out of 57 international aerodromes in the MID Region, representing 29.8% (HECA, HEBA, HESH, HEGN, HELX, HESN, HEMA, OIIE, OJAI, OKBK, OOMM, OTHH, OEDF, OEJN, OEMA, OERK and OMDB.

KPI 01 (Departure punctuality)



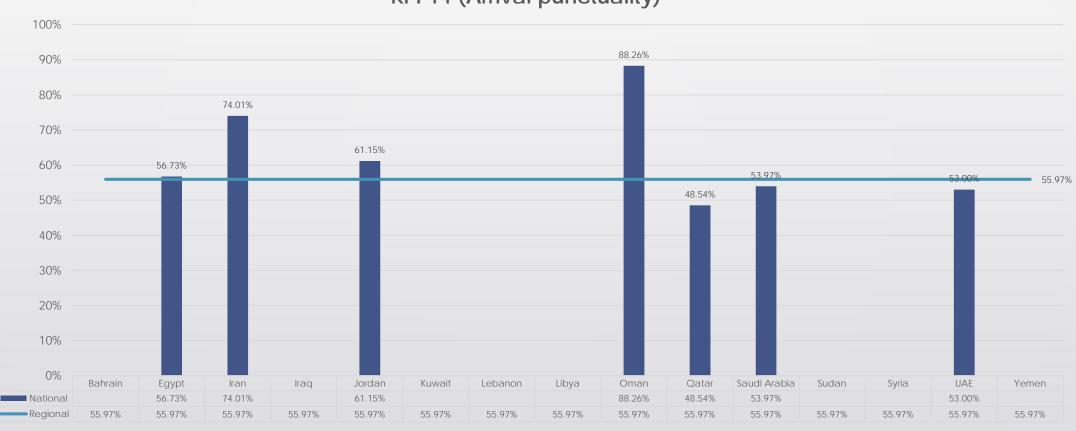




KPI 13 (Taxi-in Additional Time)



KPI 14 (Arrival punctuality)



STEP 1: DEFINE SCOPE, CONTEXT AND SET AMBITIONS

To reach a common agreement on the scope and (assumed) context of the regional air navigation system on which the performance management process will be applied.

The geographical scope is defined in Volume I and in particular in the following tables:

- Table GEN I-1 List of Flight Information Regions (FIR)/Upper Information Regions (UIR) in the Region
- Table ATM I-1 Flight Information Regions (FIR)/Upper Flight Information Regions (UIR) of the Region
- Table SAR I-1 Search and Rescue Regions (SRR) of the Region
- Table AOP I-1 International aerodromes required in the Region

• STEP 2: Know your System – SWOT Analysis



• STEP 3: QUANTIFY OBJECTIVES, SET TARGETS AND CALCULATE NEEDS (SMART Objective)

Select your State's Performance Objectives and associated KPIs

KPA: Efficiency

KPI 02: Arrival Punctuality

KPI 14: Departure Punctuality

- STEP 3 (cont'd)
- Measure the performance baseline for the selected KPIs

KPI 01: Arrival Punctuality

KPI 14: Departure Punctuality

• For example Egypt KPI baseline :

KPI 01: 73% KPI 14: 57%

• Identify the target performance (KPIs) – in 3 years

KPI 01: 90% KPI 14: 80%

- STEP 4: **SELECT SOLUTIONS**
- consider operational improvement within the ASBU framework as potential solution
- solution(s) could be ASBU or non- ASBU solution
- conduct CBA

ASBU SOLUTION	START YEAR	END YEAR

• STEP 5: **IMPLEMENT SOLUTIONS**

States to report on the status of solution implementation

ASBU SOLUTION	START YEAR	STATUS OF DEPLOYEMNT

- STEP 6: ASSESS ACHIEVEMENT
- Measure the actual achieved performance using the selected KPI(s) in step (3)
- Compare with the target(s) in step (3)
- find performance gaps and their causes and take corrective actions if required
- Update the baseline in step (3) -> to be used in next iteration of the performance management process.

Web-based MID AN Report 2022

MIDANPIRG CONCLUSION 19/6:

WEB-BASED MID REGION AIR NAVIGATION REPORT (2022)

That,

- a) States be urged to provide the ICAO MID Office with:
 - i) relevant data necessary for the development of the MID Region Air Navigation Report (2022) (Status of ASBU Implementation), by 1 December 2022:
 - ii) the data necessary for the measurement of the KPIs (01, 02, 13 and 14) for the period June & July 2022, by the 1 October 2022; and
- b) the MID Air Navigation Report (2022) be presented to the MIDANPIRG/20 for endorsement

Actions By the Meeting

The meeting is invited to review and update, as deem necessary, the status of Priority 1 ASBU Threads/Elements related to CNS and encourage States to provide Success Stories to be included in the Web-Based MID AN Report for 2022