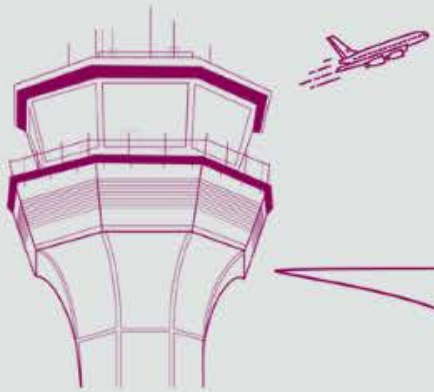


Insert here the  
name/LOGO of your  
State/ORG



# ATM SG/8

The MIDANPIRG Air Traffic Management Sub-Group, Eighth Meeting

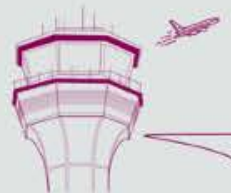
Amman, Jordan 7 - 10 November 2022



## Eighth MIDANPIRG Air Traffic Management Sub-Group Meeting

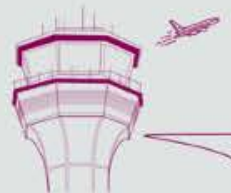
## ATM SG/8

## Amman, Jordan, 7 – 10 November 2022



# Agenda

1. Follow-up on MIDANPIRG/19 Conclusions and Decisions relevant to ATM/SAR
2. Planning and implementation issues related to ATM/SAR
  - Updates from MID States on ATM/SAR Implementation
  - ATS Route Network, RDWG and ATS Route Catalogue
  - Regional Contingency plans
  - MID ATFM Plan (MID Doc 014)
  - **FWC2022 progress**
  - RVSM implementation and monitoring
  - Airspace users' perspective
  - Other ATM issues (CMC/FUA, MID Doc 004: HLAC, etc.)
  - SAR Implementation issues
3. MID Air Navigation Priorities and Targets related to ATM/SAR
4. Air Navigation Deficiencies in the ATM/SAR fields
5. Future Work Programme
6. Any other Business



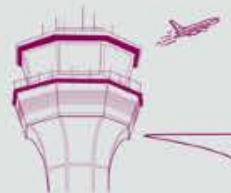
## Table of Contents:

- Facts and Forecasts statistics
- History of MID FWC 2022 TF
- Progress and current status
- Activities tracker and summary
- Next steps



# FWC2022 TF

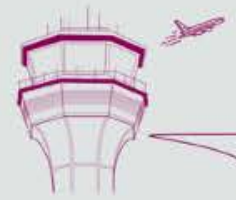
## FIFA World Cup 2022 Task Force



## FIFA World Cup 2022

Facts and Forecasts statistics

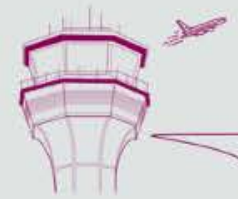




## FIFA World Cup 2022: Facts and Forecasts statistics

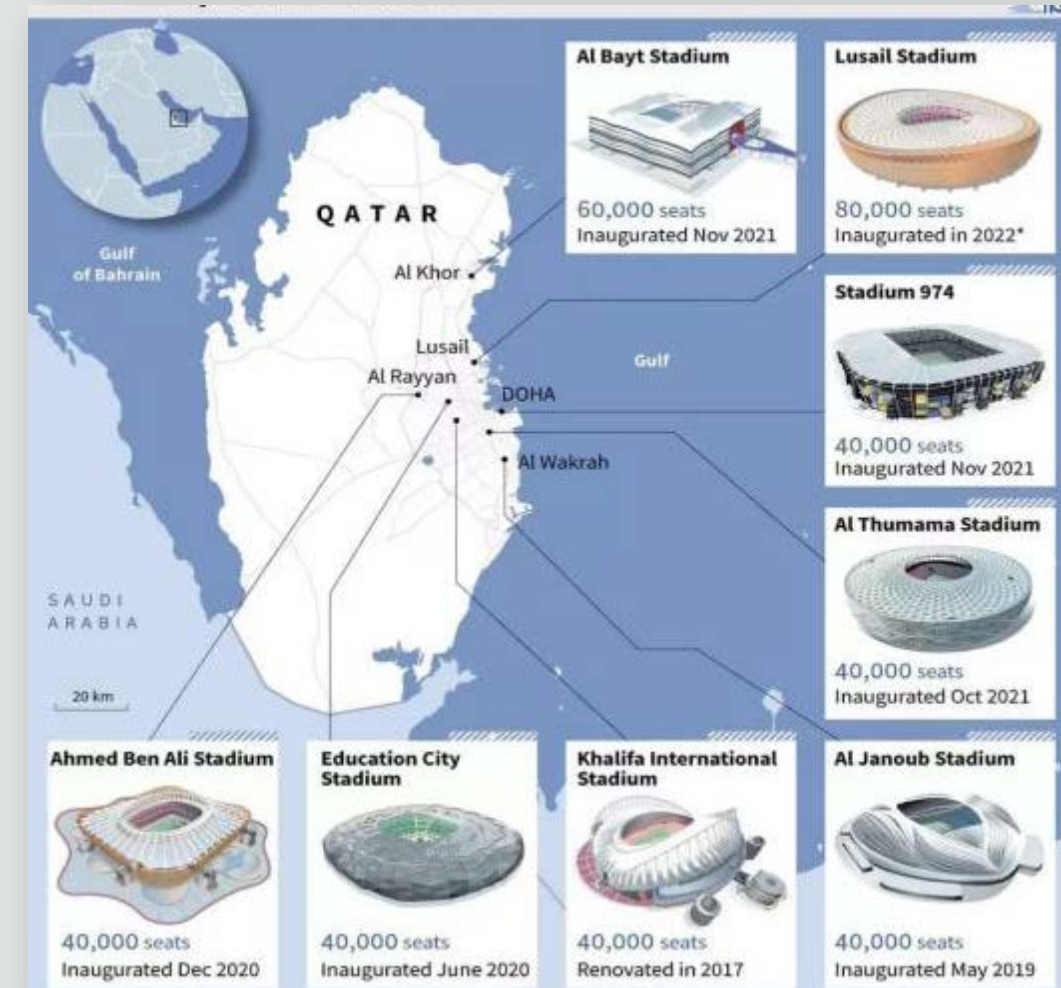
- The first time that the tournament is hosted in the Middle East Region.
- The tournament will take place during the period of 20 November – 18 December 2022.
- 1.8 Million Visitors are expected to the tournament including fans, event workforce and FIFA constituent groups.
- 500,000+ visitors will arrive to Qatar on the busiest days.

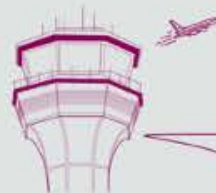




## FIFA World Cup 2022: Facts and Forecasts statistics

- Eight (8) stadiums with capacities ranging from 40,000 to 80,000 spectators.
- 64 games of 32 teams are played in small geographical area with only 55KM between most distant stadiums.

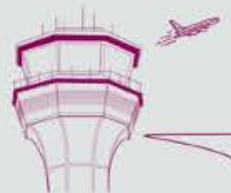




## Forecasted Air Traffic movements

- Number of Air Traffic Movements are expected to be around 1000 movement per day on average; and
- a maximum of 1600 movements on peak days.



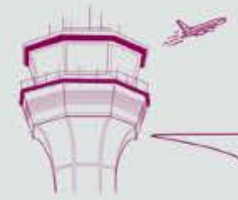


## FIFA World Cup 2022

History of MID FWC 2022 TF



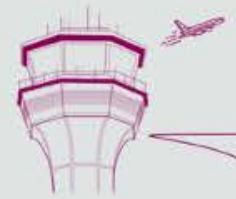




## FIFA World Cup Task Force history

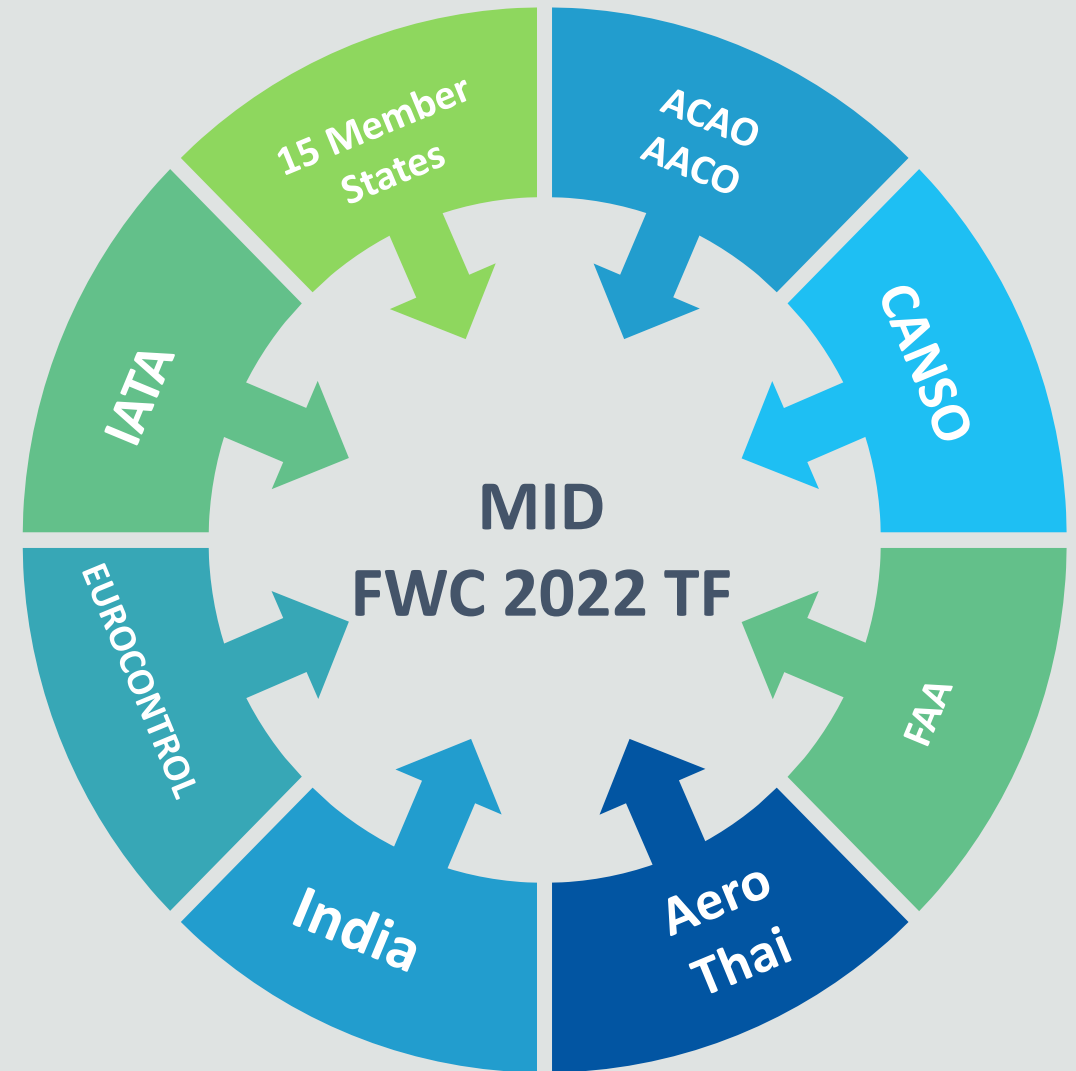
MIDANPIRG/16 (Kuwait, 13-16 February 2017) established FIFA World Cup Task Force in order to monitor the progress of the support to the FWC implementation within Qatar and within the MID Region and to accommodate the FWC related traffic demand in a cooperative and collaborative manner.

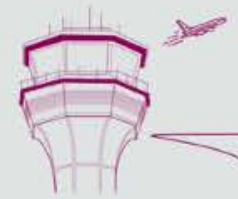




## FIFA World Cup Task Force History (continue)

- Collaborative Action plan was developed on regional level to reach a sufficient coordination between the Air Navigation Service Providers (ANSPs), airspace users and regulators
- The coordination at local, regional and inter-regional levels to accommodate safely and efficiently the expected significant increase of traffic
- To reach a defragmented approach from an operational perspective to achieve (gate-to-gate, city pairs, and an oriented track system) which leads to more than optimum efficiency of the operations of air traffic movements



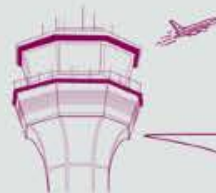


## FIFA World Cup Task Force History (continue)

- The FWC2022 event will require introduction of airspace enhancements and implementation of ATFM regulation measures
- Enhancement projects were initiated by the results of the MID RVSM Airspace Assessment developed by the MIDRMA
- MIDANPIRG/19 (Riyadh, 2022) agreed to the checklist to harmonize the implementation in the Region

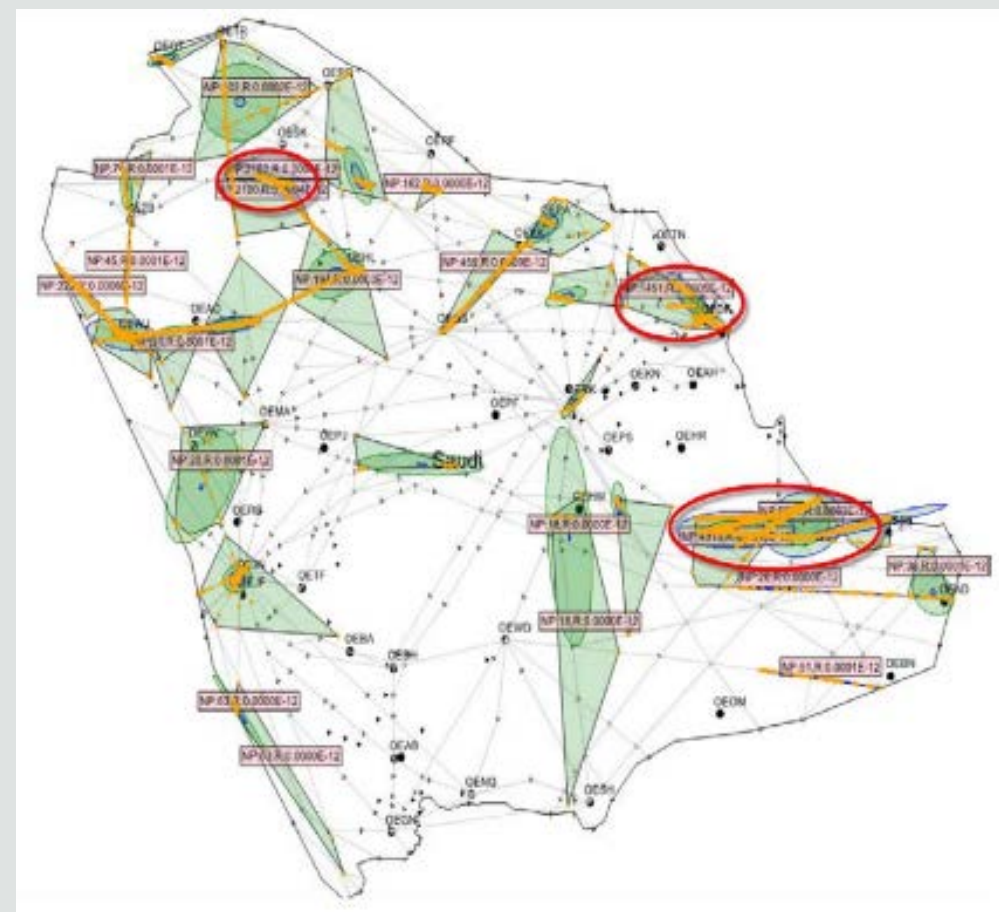
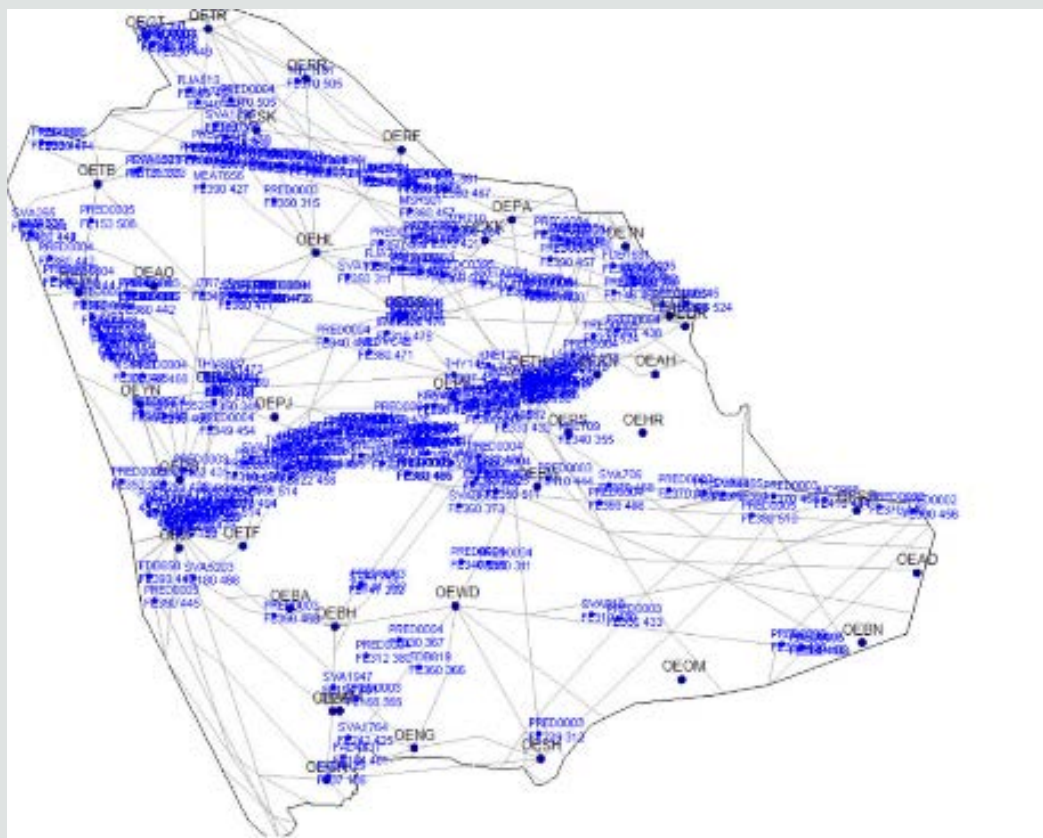
FWC 2022 Operational Process Road Map Checklist

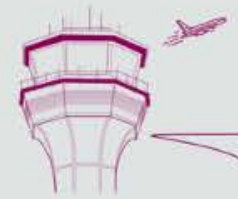
Key Activity	Reference/Sub-activities	Discussion / Support	Target Effective Date	Status	Effective Date
<b>2 Airspace management:</b>					
2.1 Temporary 5000 TMA	5000 TMA	Agreed	End Feb 2022	Completed	8 Sep 2022
2.2 5000 TMA implementation	5000 TMA	Agreed	End Feb 2022	Completed	Aug 2022
2.3 5000 TMA implementation	5000 TMA	Agreed	End Feb 2022	Completed	6 Oct 2022
2.4 5000 TMA	5000 TMA	Agreed	End Feb 2022	Completed	8 Sep 2022
2.5 5000 TMA	5000 TMA	Agreed	End Feb 2022	Ongoing	TBC
<b>3 ATFM implementation:</b>					
3.1 ATFM implementation	ATFM	Agreed	Apr 2022	Completed	8 Sep 2022
3.2 ATFM implementation	ATFM	Agreed	Apr 2022	Completed	8 Sep 2022
3.3 ATFM implementation	ATFM	Agreed	Apr 2022	Completed	8 Sep 2022
3.4 ATFM implementation	ATFM	Agreed	Apr 2022	Completed	8 Sep 2022
3.5 ATFM implementation	ATFM	Agreed	Apr 2022	Completed	8 Sep 2022
<b>4 Temporary Airspace:</b>					
4.1 Temporary Airspace	Temporary Airspace	Agreed	End Feb 2022	Completed	8 Sep 2022
4.2 Temporary Airspace	Temporary Airspace	Agreed	End Feb 2022	Completed	8 Sep 2022
4.3 Temporary Airspace	Temporary Airspace	Agreed	End Feb 2022	Completed	8 Sep 2022
4.4 Temporary Airspace	Temporary Airspace	Agreed	End Feb 2022	Completed	8 Sep 2022
4.5 Temporary Airspace	Temporary Airspace	Agreed	End Feb 2022	Completed	8 Sep 2022



## FIFA World Cup Task Force History (continue)

- Example of the assessment results:

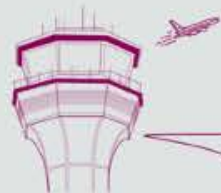




## FIFA World Cup 2022

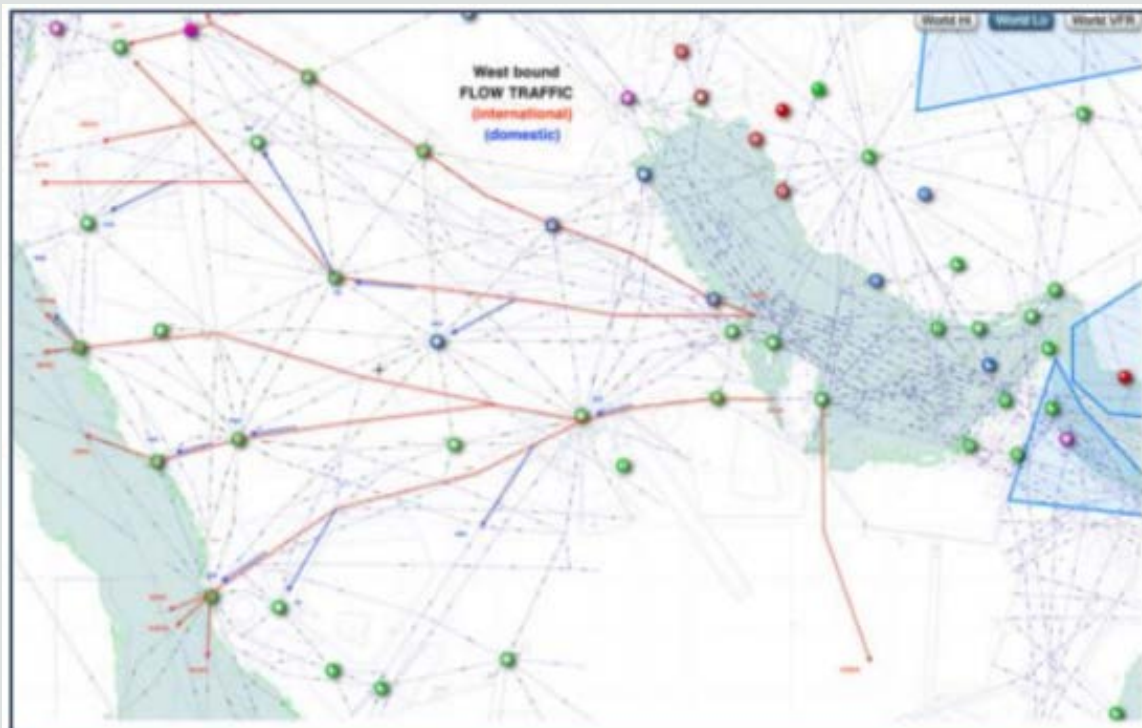
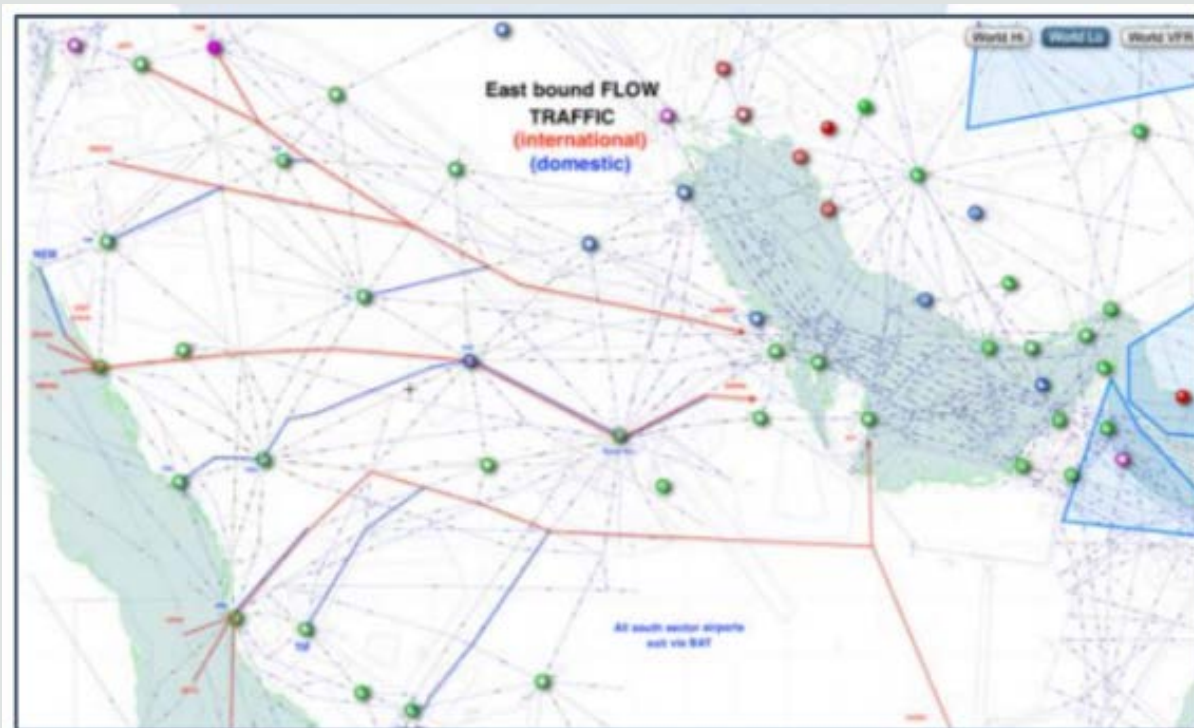
Progress and current status:  
Airspace enhancements projects

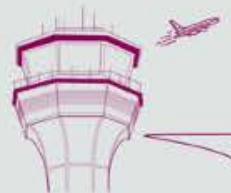




## FIFA World Cup Task Force: Airspace enhancements projects within the Region

- Example of the assessment results:





## FIFA World Cup Task Force (continue)

- Example of the assessment results:

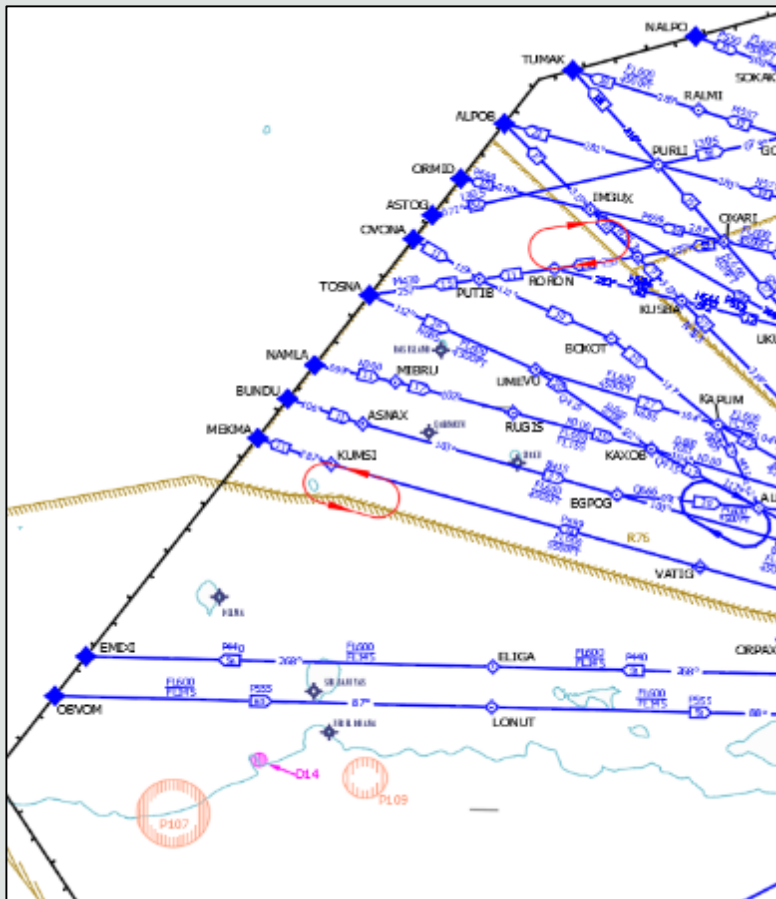
### Conditional ATS Routes

OER41: 0400 to 1000 and from 1430 to 1730 and 24/7 over BAT  
M430, Z511, L681, N697, T142, M440, Y432, and N316

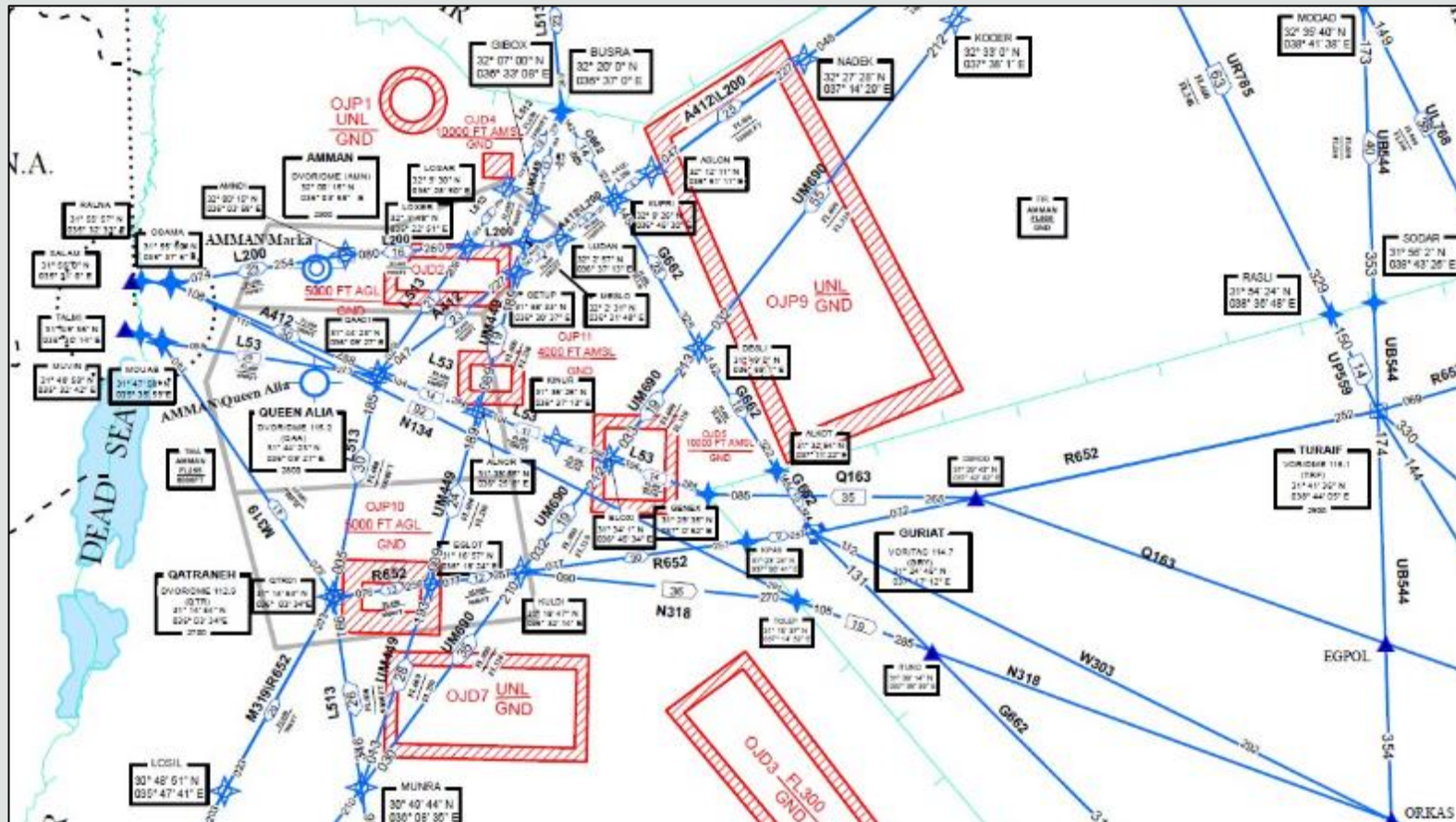
Items	Z511/L681	M430	T142	N316	N697	M440	Total
Saving Milage (nm)	19	23	38	24	17	27	148
Saving Fuel (kg)	228	276	456	288	204	324	1776
CO <sub>2</sub> Emission Reduction (kg)	718	869	1436	907	642	1023	5595



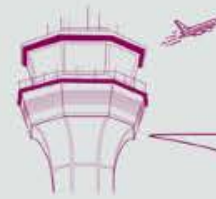
## Emirates FIR



## Amman FIR



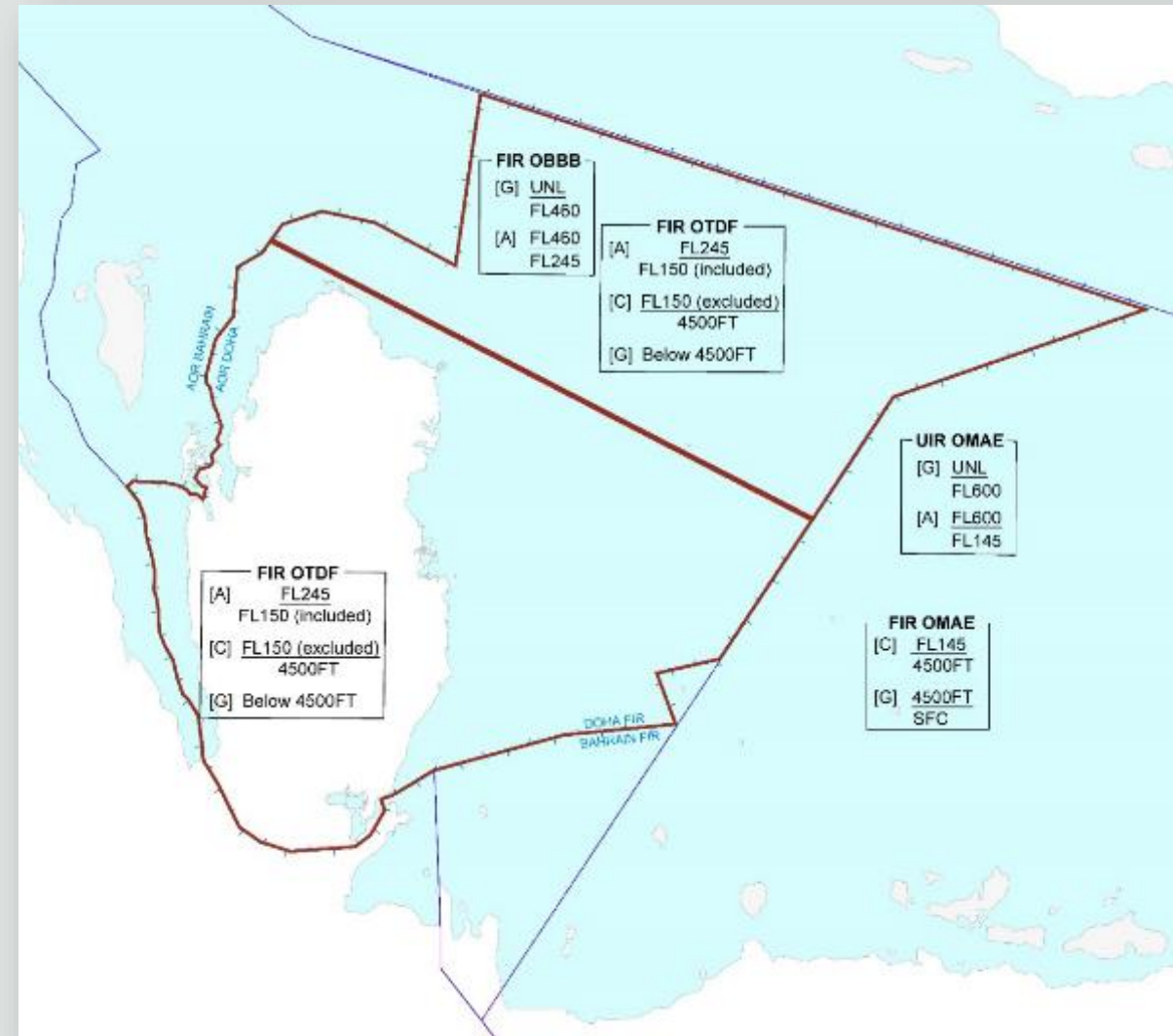


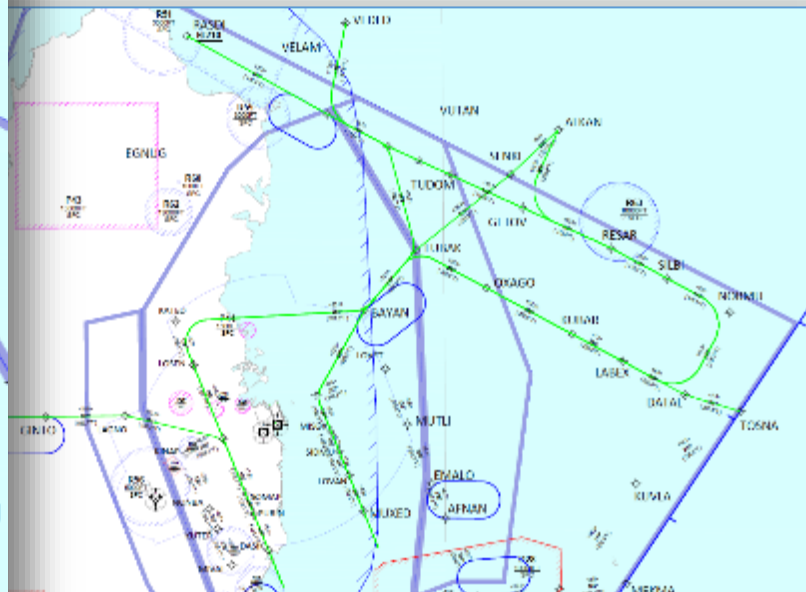
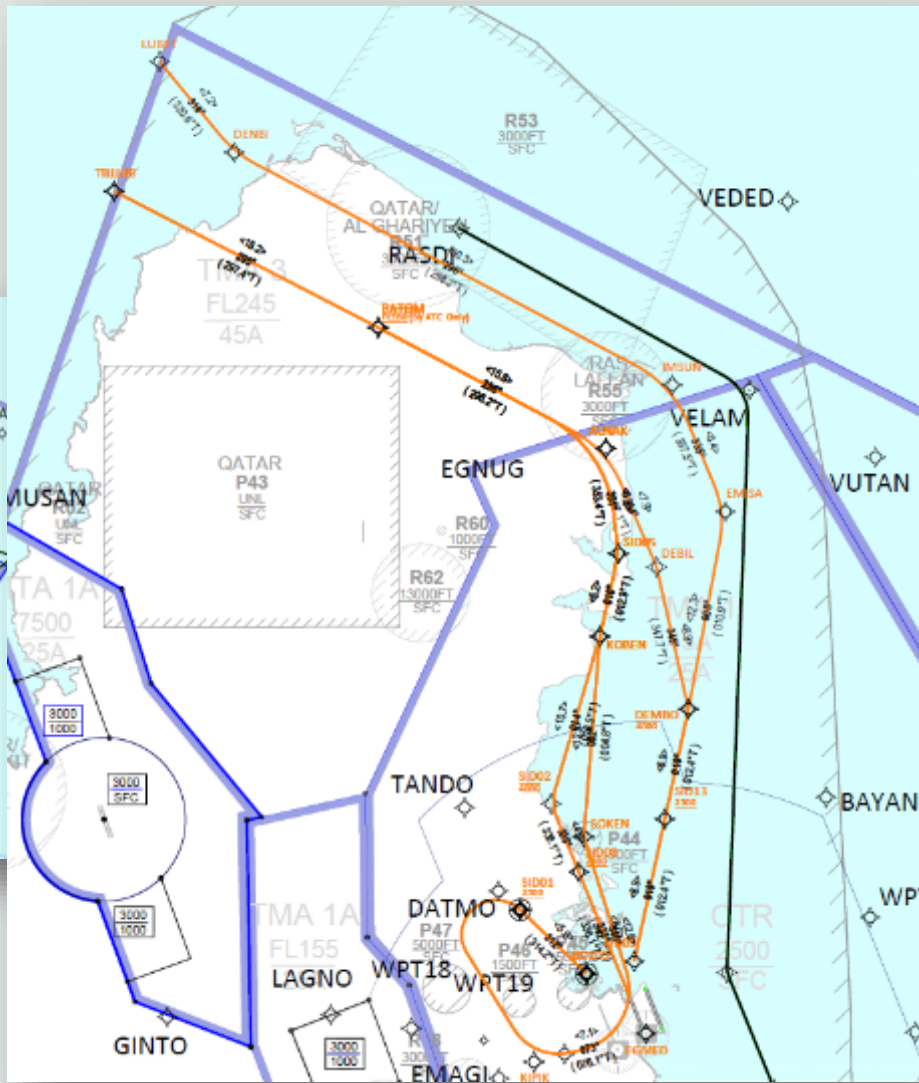
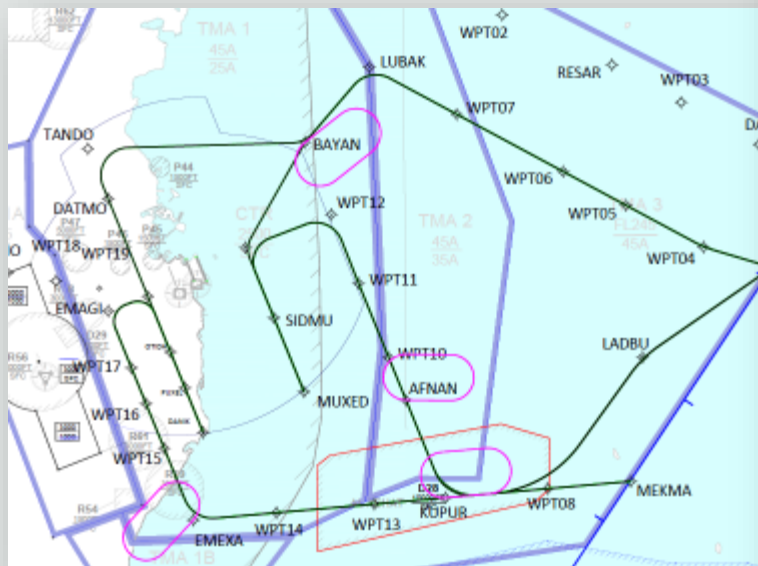
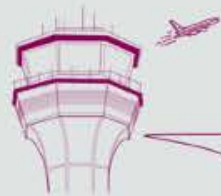


## FIFA World Cup Task Force: Airspace enhancements projects within Qatar

Since Sept 8<sup>th</sup> Qatari airspace Structure was amended to accommodate increased traffic flows:

- Entry/exits points remain the same
- LoA levels remain the same
- Use of lateral holding techniques (trombones) to manage traffic flows
- Redesign of STARs to feed each runway at both OTHH and OTBD
- STAR commencing at entry point and options for each runway
- Peak-period SIDs to manage exceptional outbound flow



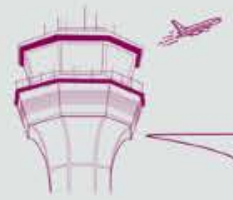




## FIFA World Cup 2022

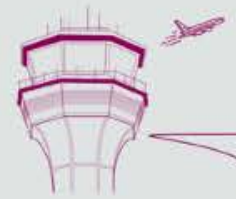
Progress and current status:  
ATFM implementation





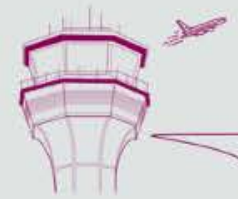
## Doha ATFM unit: Operations

- commenced on the effective date of AIRAC cycle of 8 September 2022, in conjunction with new Airspace Enhancements.
- ATFM conference calls are conducted Daily at 0800 UTC.
- Daily ADP sent at 1000 UTC through the online tool and email.
- Increases planning ability as more airlines are uploading Schedules.



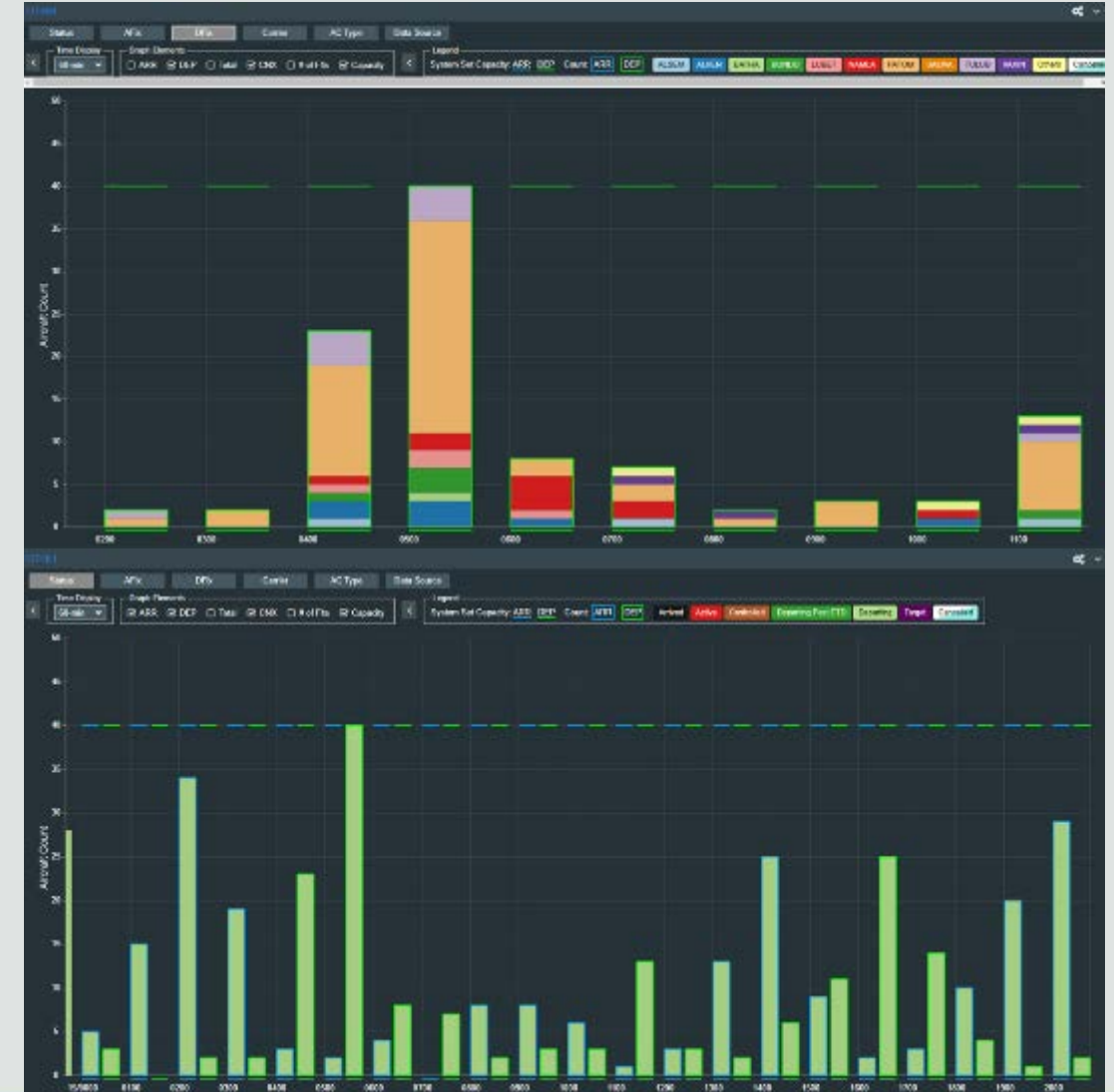
## FWC 2022 ATFM Training

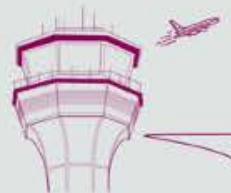
- ICAO MID facilitated arrangements for the training on regional level.
  - 70 participant from 10 States received the training during March 2022, on the principles of ATFM and on using Qatar ATFM Web portal.
- In addition, and in coordination with IATA, separate training was delivered
  - 250+ participants from 36 airlines based in 28 States, with focus on MID Region operators, planning to operate to/from OTHH and OTBD. Representing a diverse of mix operations models: Legacy, Charter, Cargo and General/Business aviation.



## FWC 2022 Concept

The FWC 2022 Concept was based on the MID Region ATFM Plan which was endorsed by the MIDANPIRG. Aiming to provide operational information required for planning for the significant traffic rush towards OTxx. To enable resource planning for 5 days in advance. Airline schedules are uploaded for a rolling 6-day period.

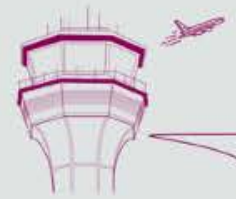




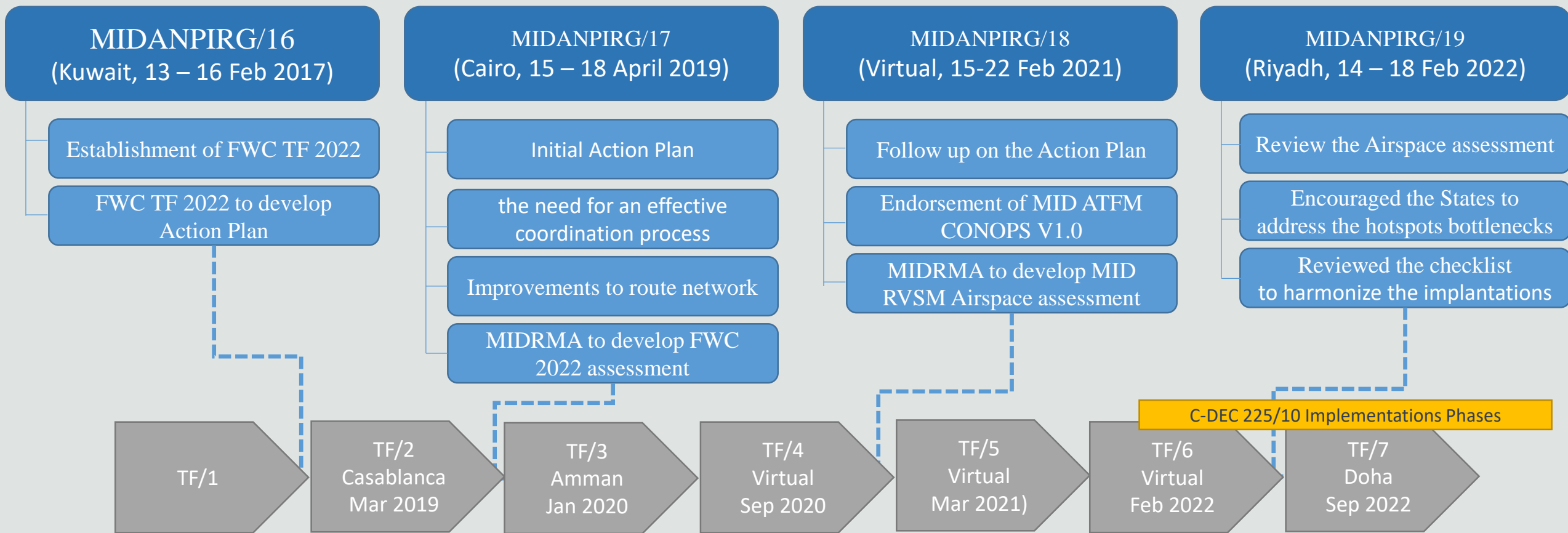
## FIFA World Cup 2022

Activities summary and tracker

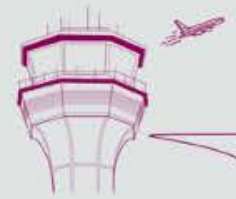




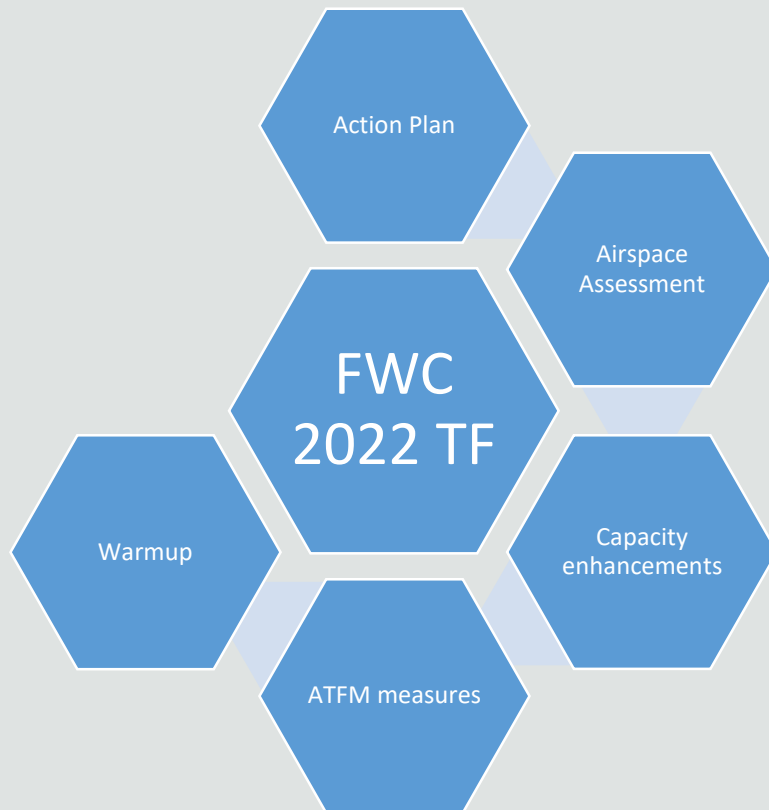
## FWC 2022 activities summary and tracker



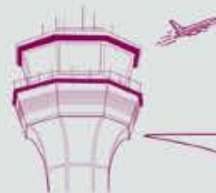




## FWC 2022 activities summary and tracker



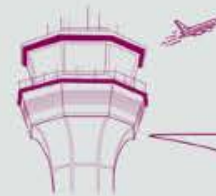
FWC TF	MIDANPIRG/16 2017 •Coordinating on regional level
Action Plan	Main activities, roadmap, data collection and analysis tasks •Timelines and task assignments
MIDRMA	MID RVSM Airspace Assessment •Identifying Hotspots, bottlenecks
IFPs and ENR	New SIDs STARS, Parallel Approaches within Doha TMA •Other Airspace Enhancement projects within the region Egypt, Jordan, Kuwait, Saudi Arabia,
GDP/CTOT Programme	Web-based Tool implemented by Qatar •Familiarization and training
Coordination	With States and ANSPs •IATA and Airspace users and other Stakeholders
Trial period	Dry run of the ATFM and coordination meetings •Daily coordination Meeting



## ICAO MID FIFA World Cup TF meetings

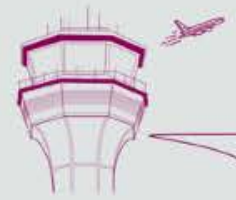
31 March 2022





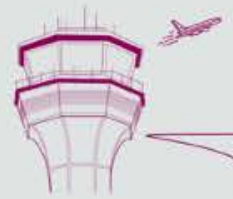
## ICAO MID FIFA World Cup TF meetings March – September 2022





## FWC 2022 TF Outcomes

- Collaboration between MID States will be the key factor to the successful management of Air Traffic during the event.
- Coordination with the Airspace users / Air Operators and ANSPs will continue to be essential.
- For these purposes, and after implementing all the enhancements projects presented in the slides above, and in the absence of a centralized management unit similar to the Eurocontrol Network Manager or FAA Command center; the TF agreed with the States/ANSPs and airspace users utilizing the tools available to exchange the plans and concerns.

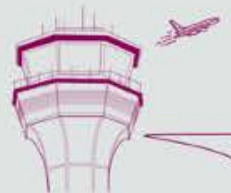


## Action by the meeting:

- The meeting is invited to:
  - a) note the progress made by the MID FWC 2022 Task Force, and
  - b) continue the support provided to the FWC 2022 Activities during the coming short period.



ICAO MID



# ATM SG/8

The MIDANPIRG Air Traffic Management Sub-Group, Eighth Meeting

Amman, Jordan 7 - 10 November 2022



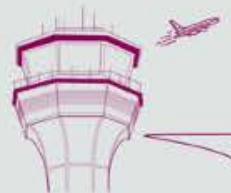
# FWC2022 TF

FIFA World Cup 2022 Task Force

# Thank You



ICAO MID



# ATM SG/8

The MIDANPIRG Air Traffic Management Sub-Group, Eighth Meeting

Amman, Jordan 7 - 10 November 2022



# THANK YOU

