



PBN IMPLEMENTATION IN JORDAN



Prepared by

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AIR TRAFFIC MANAGEMENT

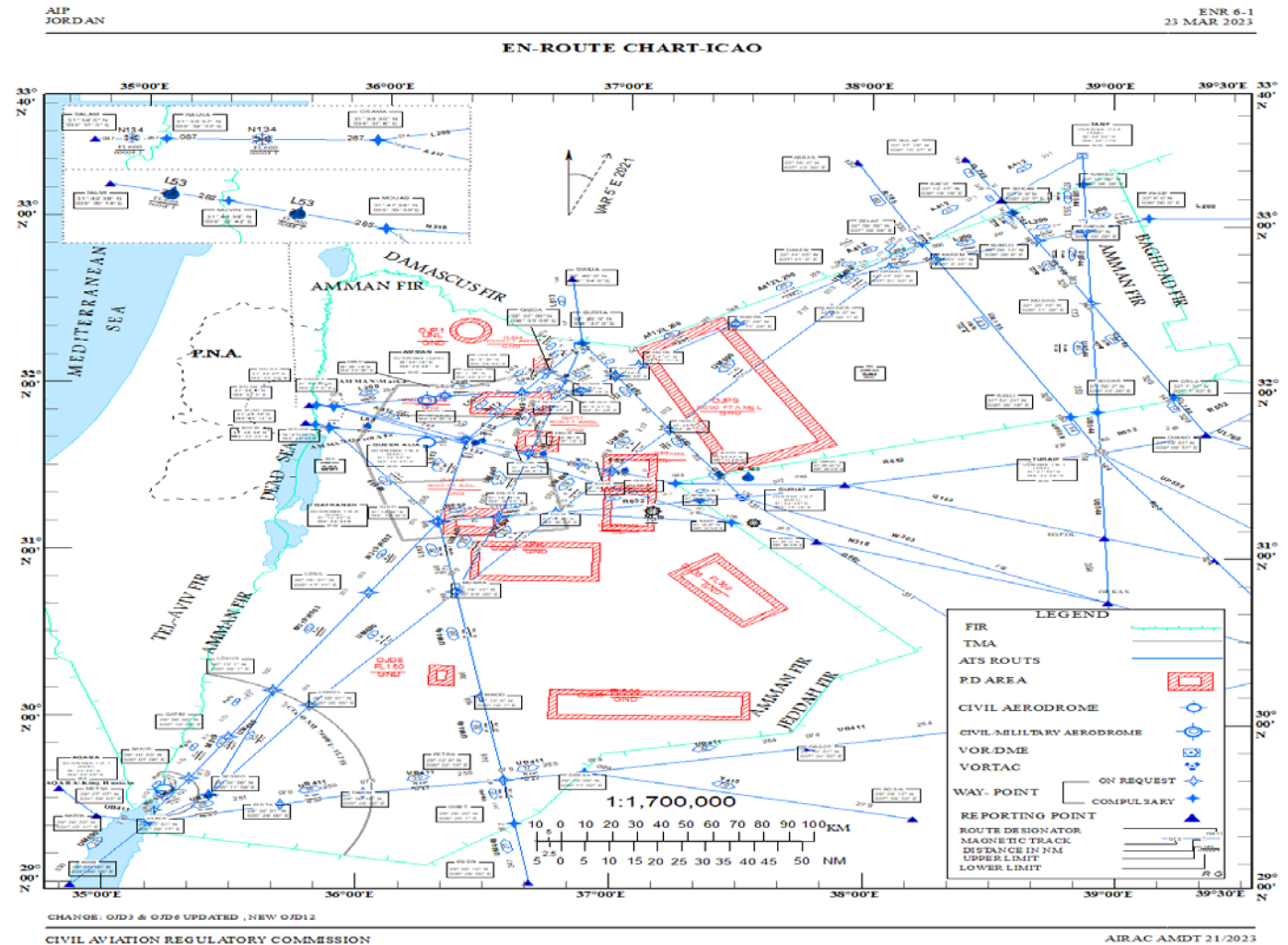
JORDAN

**PBN SG/8 Meeting
(Doha, Qatar, 12 - 13 December 2023)**

AIRSPACE OVERVIEW

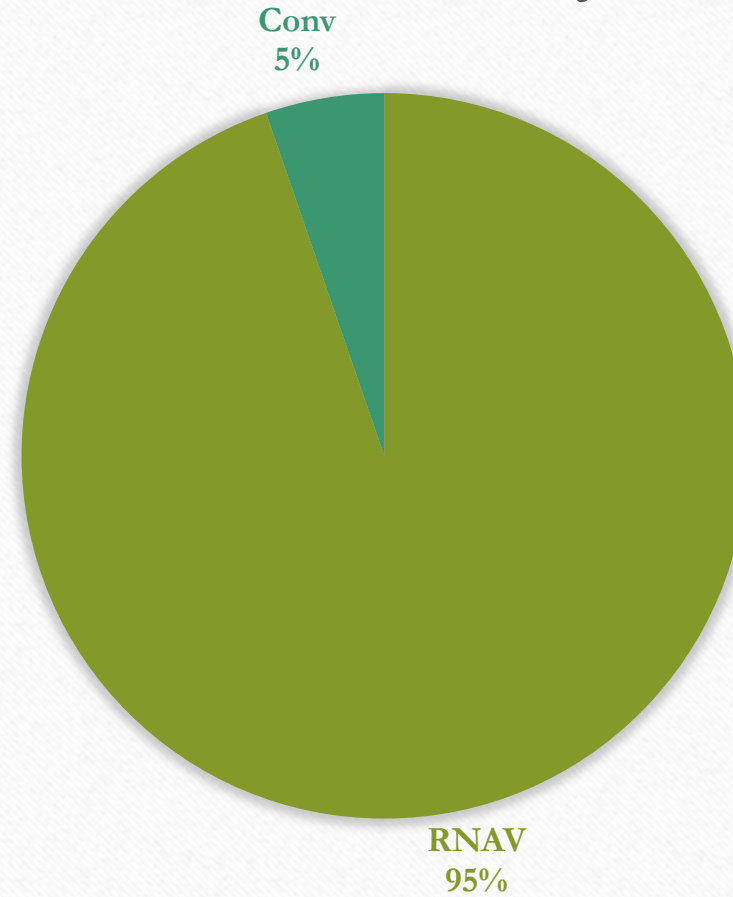
Jordanian airspace is divided into several sectors.
The exact number of sectors may vary based on current air traffic and operational requirements.

Upper East
Lower East
West
Terminal Control Areas (TMA)
Aqaba sector



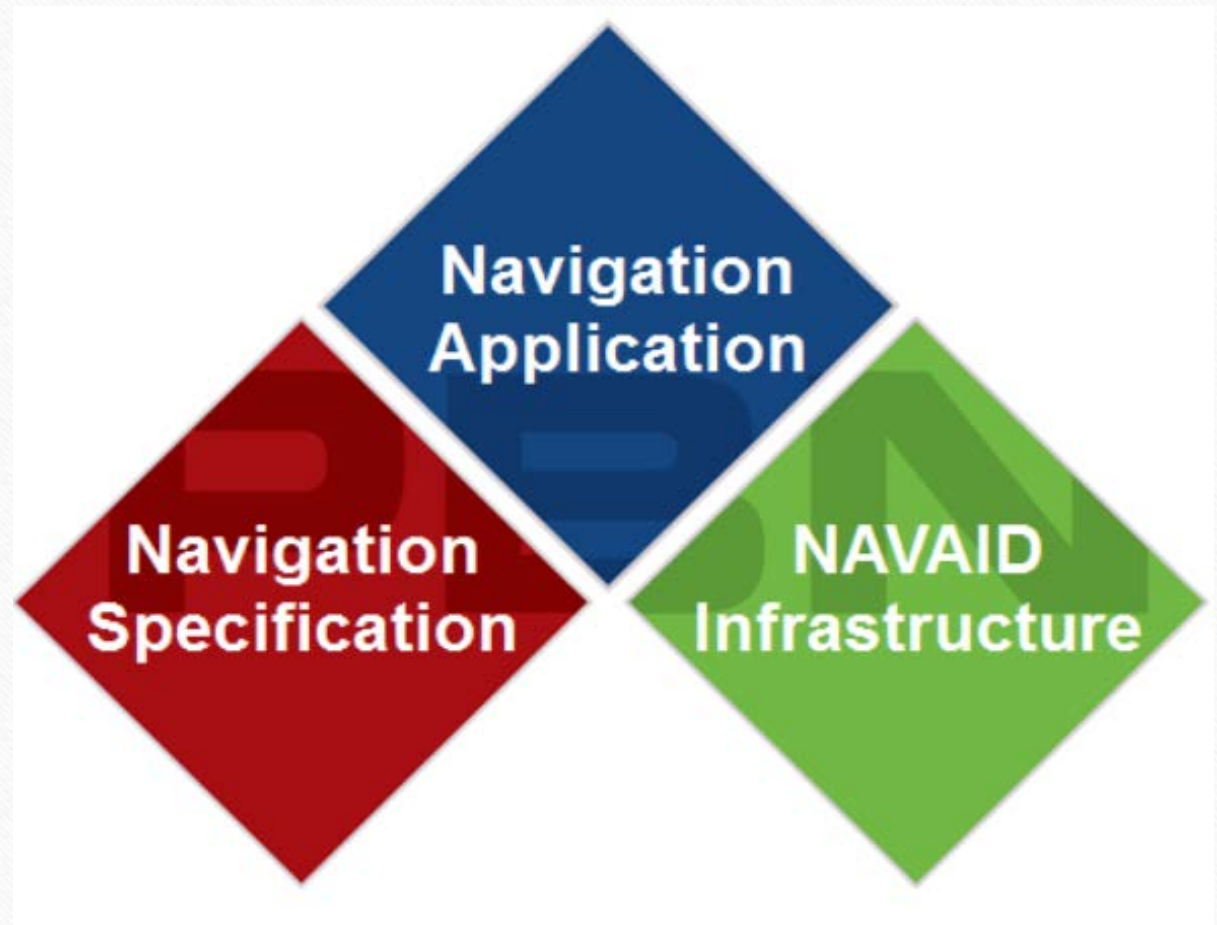
MOST OF THE AIRTRAFFIC
ARE LEANING TOWARDS
PBN THAN THE
CONVENTIONAL (GROUND
BASED PROCEDURES)

GNSS VS CONV OJAI



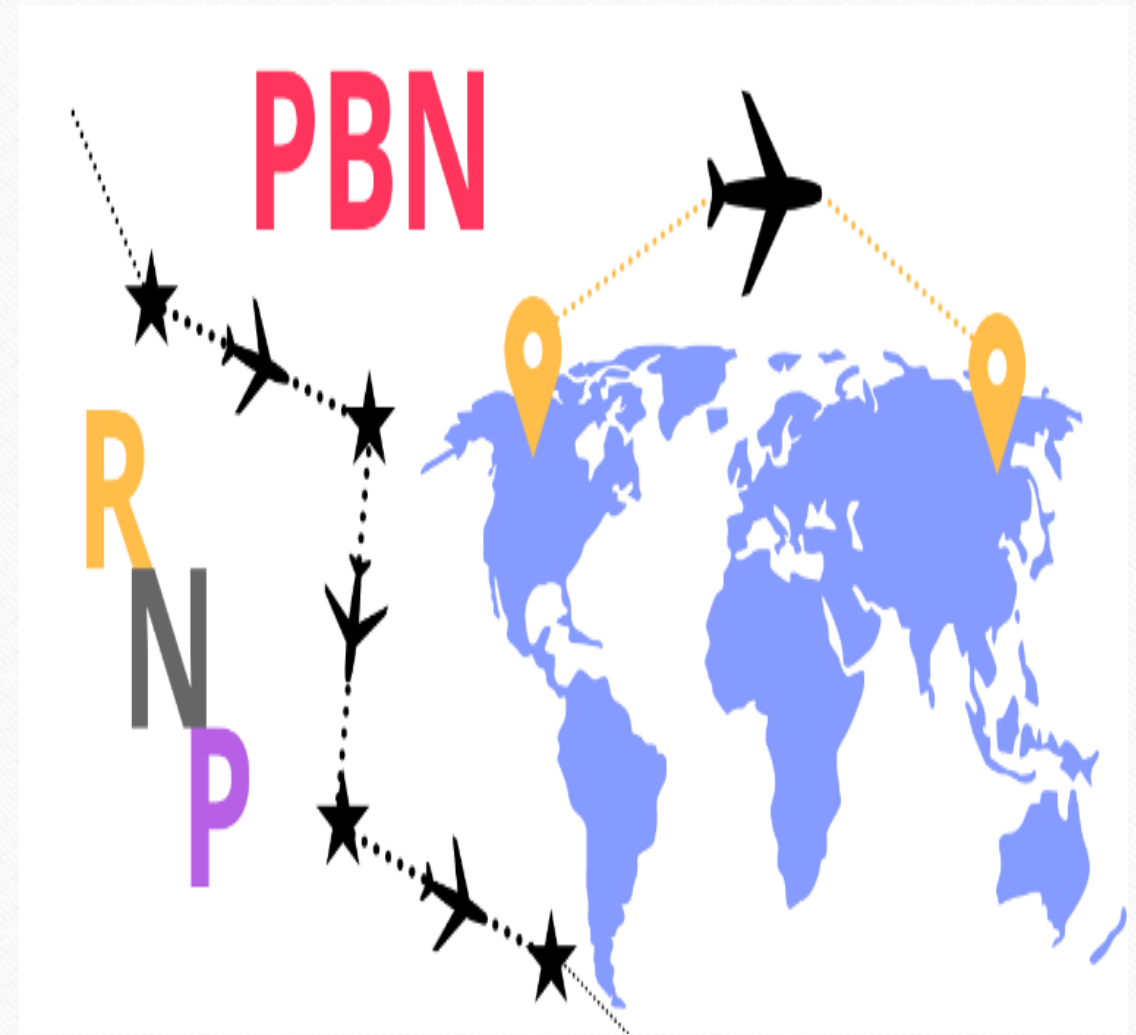
NAVIGATION SPECIFICATION

- RNAV 5 (GNSS) EN-ROUTE
- RNAV 1 (GNSS) TMA
- RNP APCH



PBN PROCEDURE IN JORDAN

- PBN IN JORDAN WAS PLANNED WITHIN A STRATIGY TO IMPLEMENT THROUGHOUT THREE STAGES
- 2009-2010 NEAR TERM
- 2011-2015 MID TERM
- 2016-2025 FAR TERM



PRESENT IFP

OUR PBN PROCEDURE HAS STARTED
IN 2012 SINCE THEN THE PBN IFP
HAS PASSED THROUGH MULTIPLE CHANGES
AND UPDATES TILL 2017 DUE TO

- NEW AIRPORT CONSTRUCTION
- NEW ROUTES NEEDED
- NEW PROCEDURE HAS BEEN CREATED
- TRANSITION APPROACHES HAVE BEEN CREATED



NEW IFP PROJECT 2023-2024

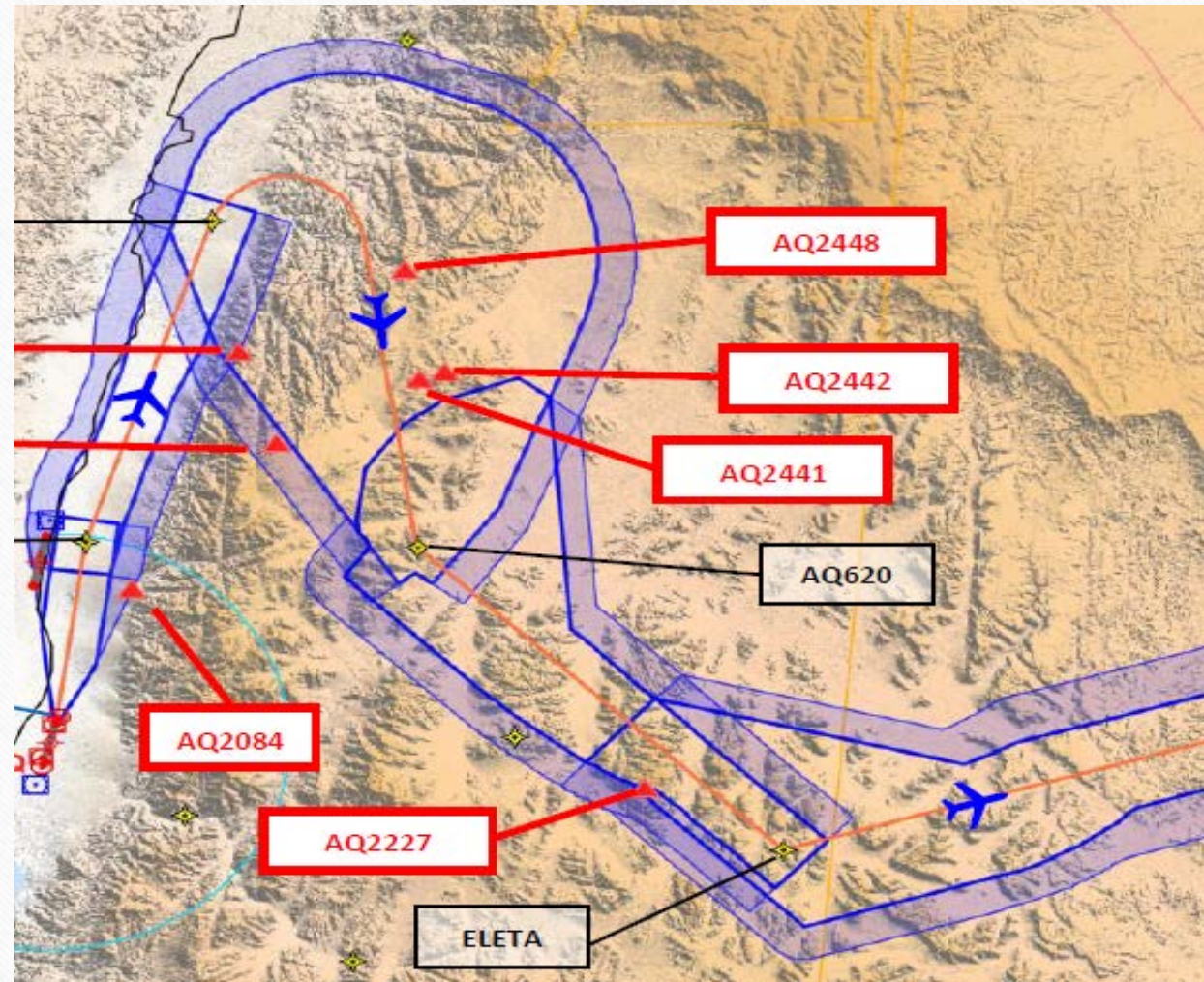
DUE TO

- NEW AIRPORT CONSTRUCTIONS AGAIN
- DECOMESIONING OF SOME OF THE NAV AIDS
- MULTIPLE UN NEEDED PROCEDURES
- MILITARY AREAS HAVE BEEN CHANGED
- AQABA AIRPORT CHALLENGES
- ATFM



NEW IFP PROJECT

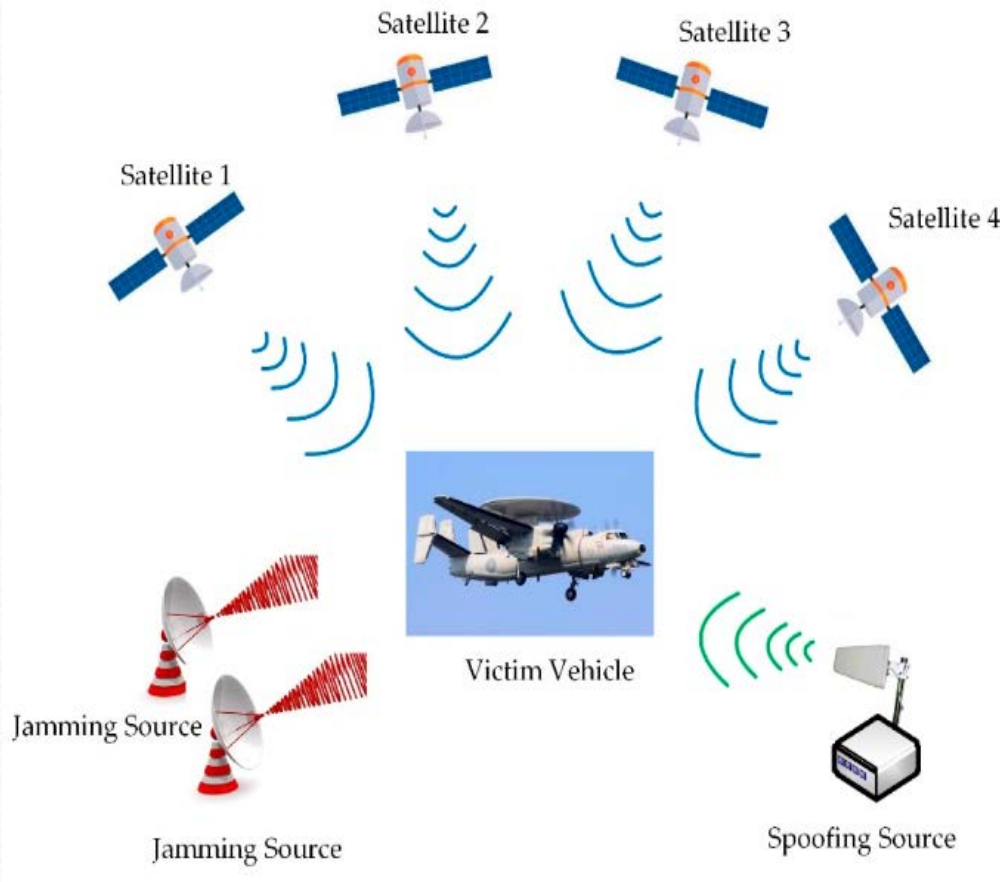
- REVIEWING AND UPDATING EXISTING IFPS TO ALIGN WITH INTERNATIONAL STANDARDS.
- ENHANCING NAVIGATION ACCURACY
- INCREASING THE CAPACITY AND EFFICIENCY OF AIRSPACE UTILIZATION.
- ENSURING COMPLIANCE WITH THE LATEST TECHNOLOGIES AND REGULATIONS.
- SEGRATED SID AND STAR
- CDO CCO SUPPORT



CHALLENGES AND FUTURE DEVELOPMENTS



GNSS INTERFERENCE



PROSPECTIVE PROJECTS

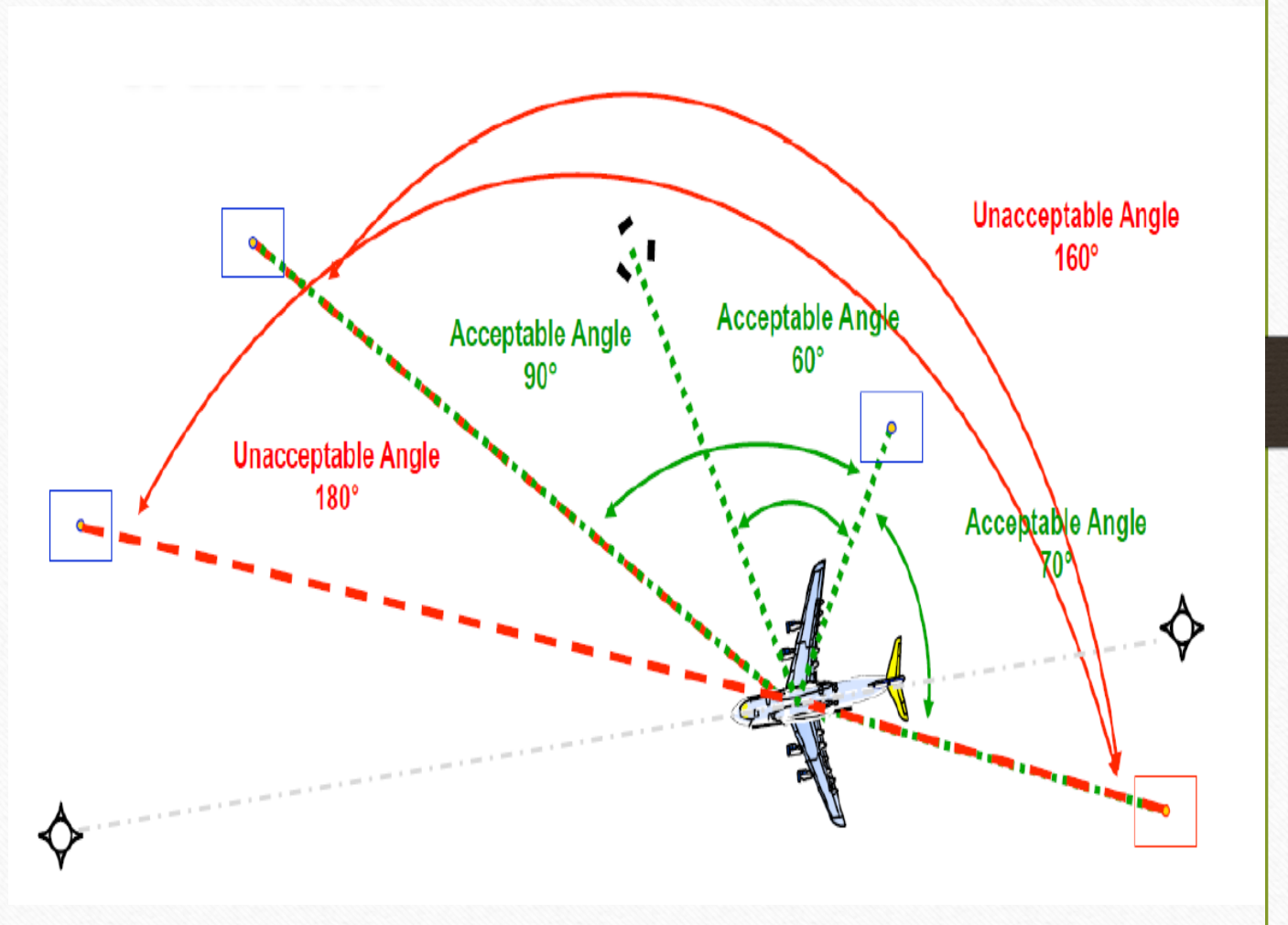
- MLAT (MULTI-LATERATION RADAR)

MLAT PROJECT IN AQABA AREA WHERE
RADAR SERVICE IS NOT AVAILABLE
BELOW FL150



DME – DME

- GNSS systems can be susceptible to interference or signal degradation.
- DME-DME offers redundancy, ensuring navigation remains reliable even in challenging conditions.



Thank you

A logo consisting of the letters 'Q', '&', and 'A' in a bold, sans-serif font. The 'Q' and 'A' are black, while the ampersand is red. The logo is set against a white background with a light gray checkerboard pattern.

Q & A