PBN IMPLEMENTATION

IN THE ISLAMIC REPUBLIC OF IRAN

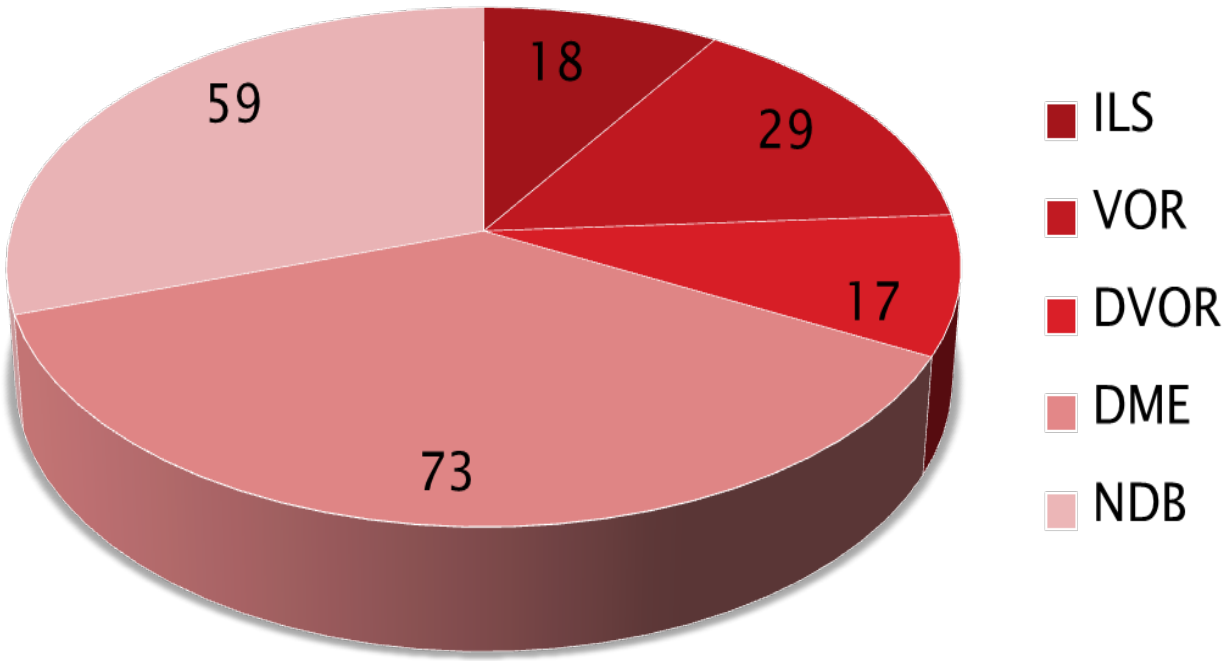
PBN SG/2

(Sharm El Sheikh, Egypt, 22-25 February 2016)

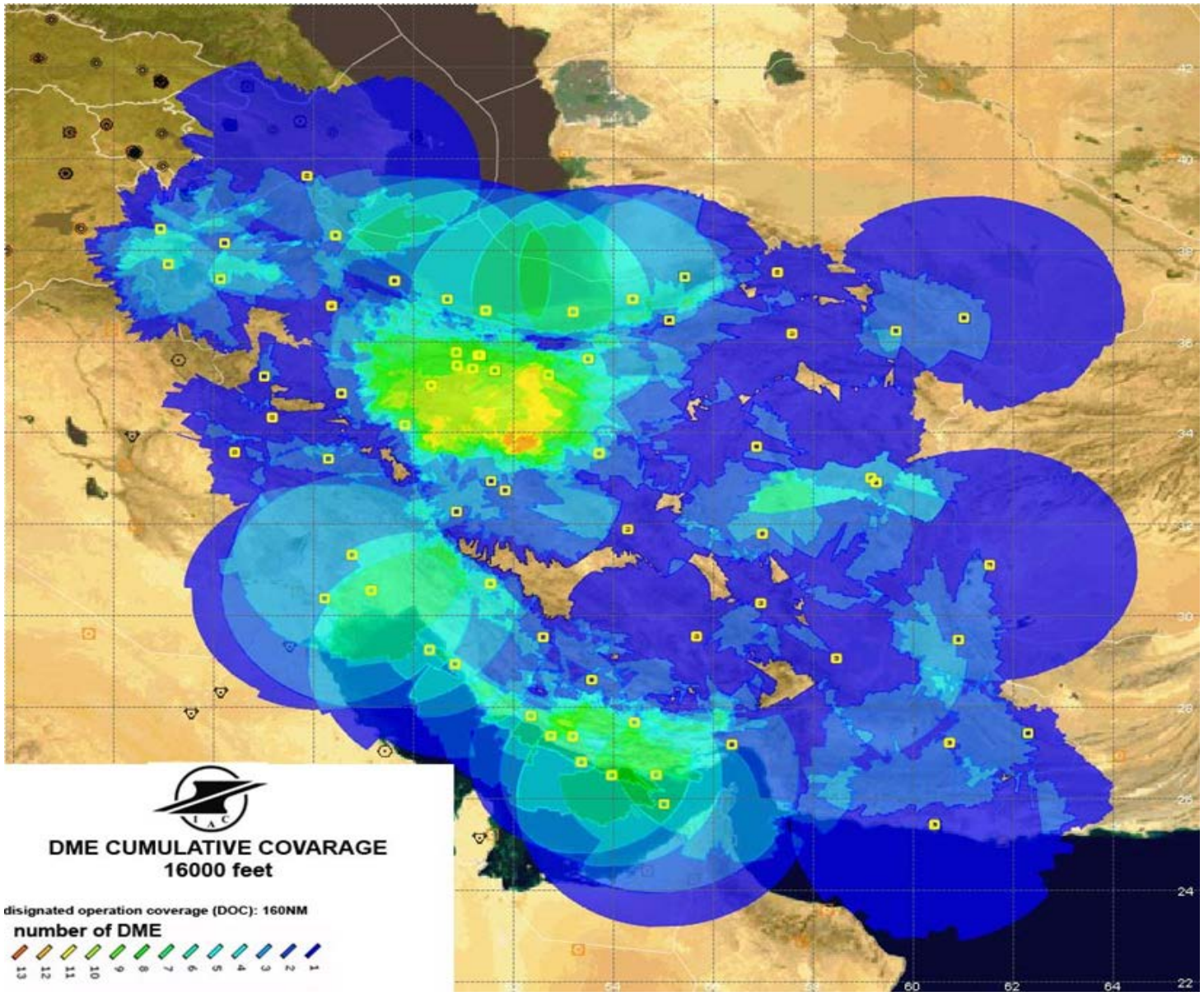
Current Status (Conventional SIDs/STARs/IAPs)

- 48 ILS CAT I IAP
- 1 ILS CAT II IAP
- 120 VOR/DME IAP
- 84 VOR IAP
- 51 NDB/DME IAP
- 96 NDB IAP
- 630 STARs
- 720 SIDs

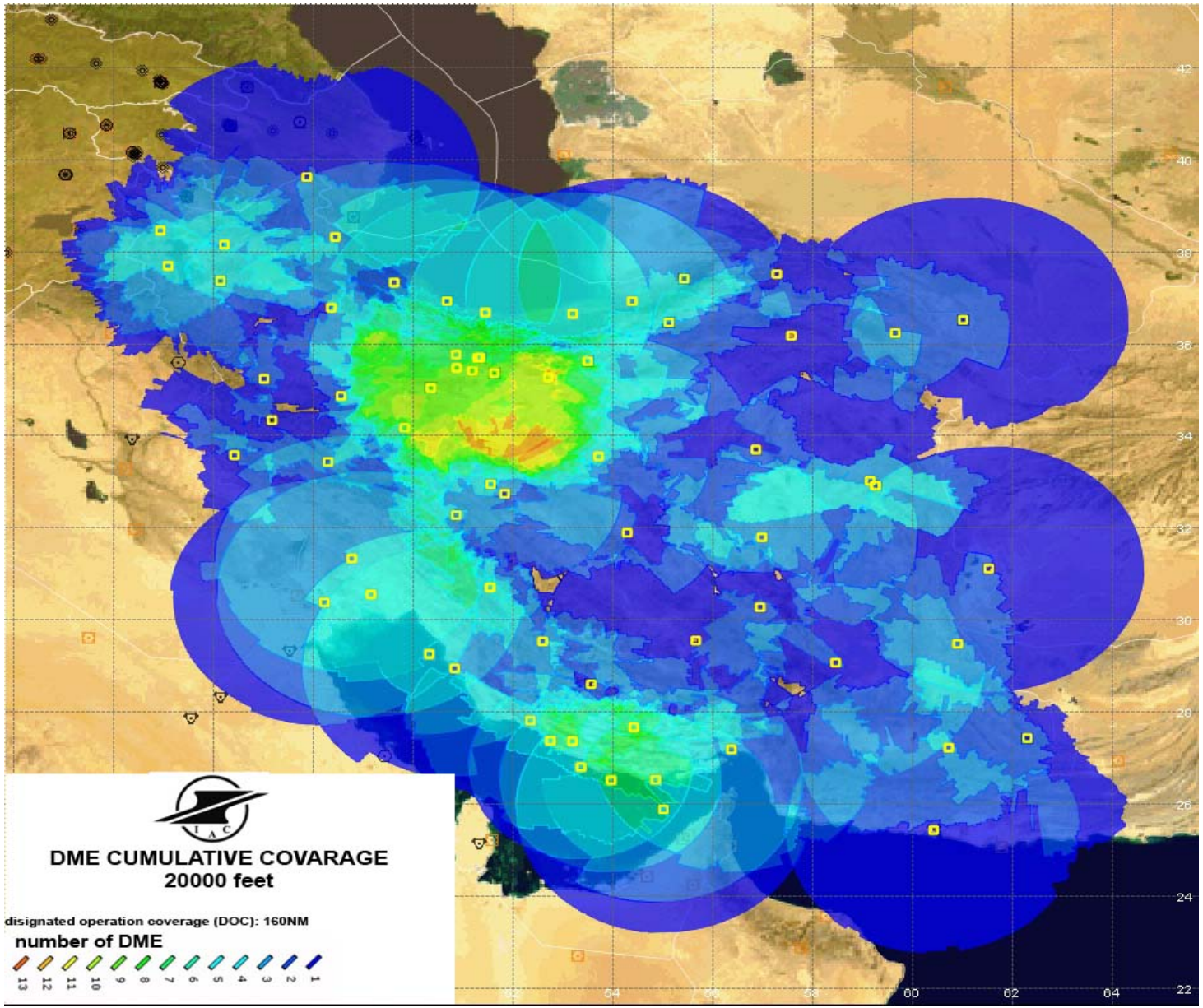
Navigation Infrastructure (Conventional NAV AIDs)



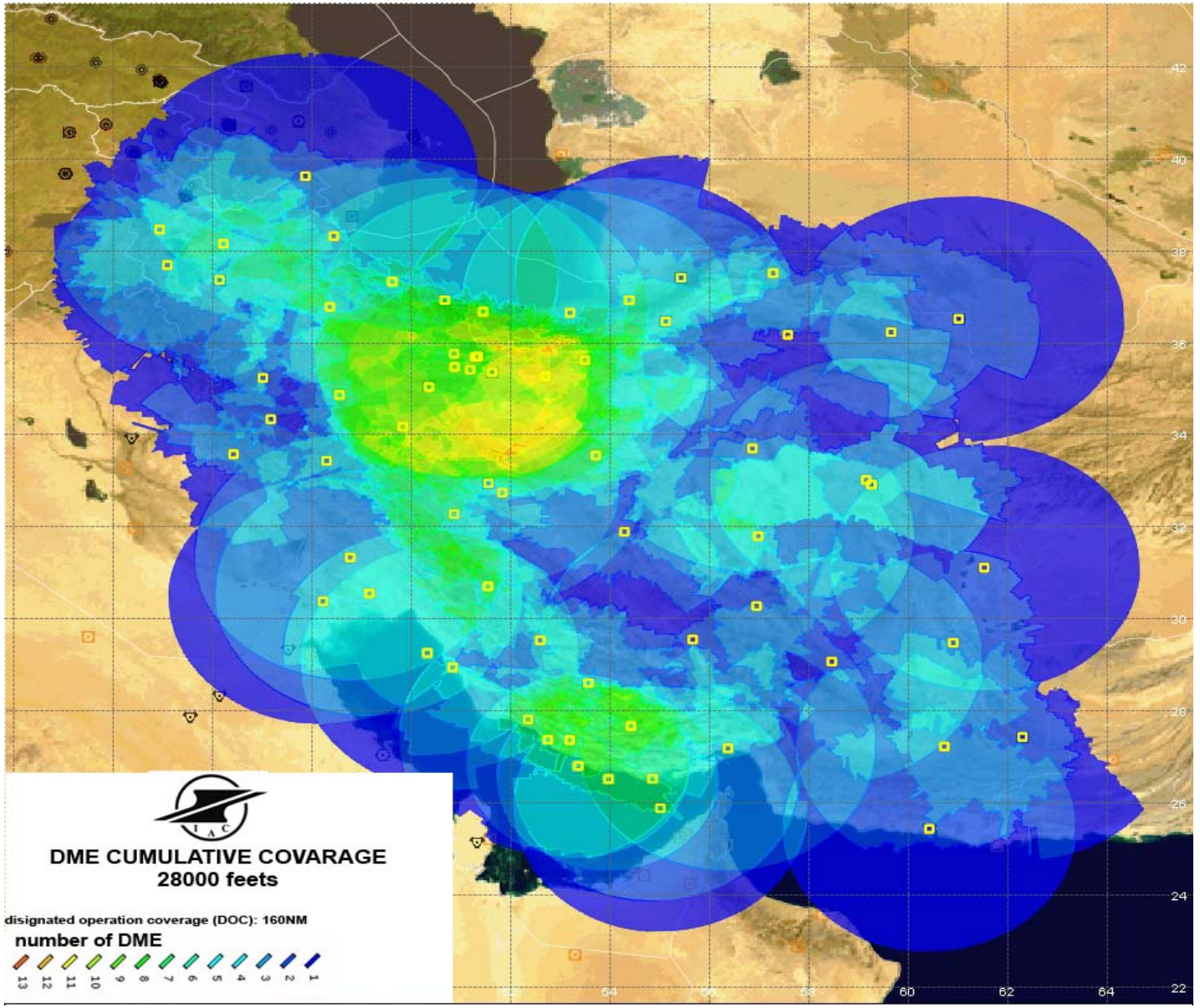
DME Coverage – 16000 FT



DME Coverage – 20000 FT



DME Coverage – 28000 FT



PBN Implementation

Current Status

Enroute

- **RNAV 5**
- **43** RNAV 5 ATS Routes Implemented

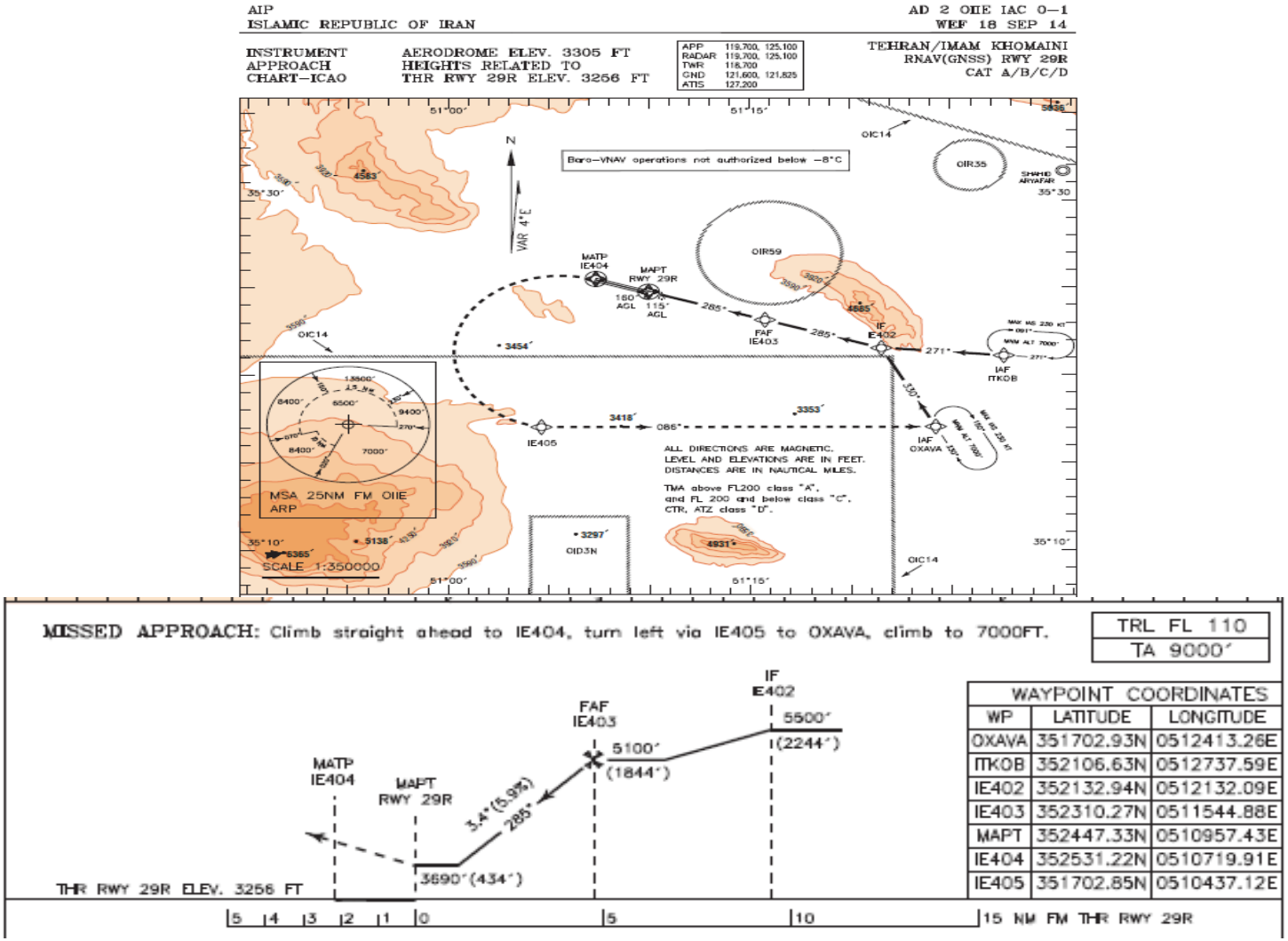
- **RNAV 1**
- **5** RNAV 1 ATS Route Implemented
  - M324 and M318 (already implemented)
  - M317, UL223 and UT36 (WEF 3 March 2016)

Approach

LNAV/VNAN in the International Aerodromes

- OIIE – Implemented
- OIII – 26 MAY 2016 RWY 29 L
- OIMM – 28 APR 2016
- OIFM – 2 1 JUL 2016
- OIKB – 28 APR 2016
- OISS – 23 JUN 2016
- OITT – 23 JUN 2016
- OIZH – 26 MAY 2016
- OIYY – 21 JUL 2016

OIIE Baro-VNAV (Implemented)



SID / STAR

International Aerodromes

- OIIE – Implemented
- OIII – 26 MAY 2016
- OIMM – 28 APR 2016
- OIFM – 2 1 JUL 2016
- OIKB – 28 APR 2016
- OISS – 23 JUN 2016
- OITT – 23 JUN 2016
- OIZH – 26 MAY 2016
- OIYY – 21 JUL 2016

Iran PBN Implementation Plan

Near Term (2013 – 2018)

Phase of Flight	Navigation Specification	Places
En - route	RNAV5 & RNAV1	Tehran FIR (Above FL 200)
TMA	RNAV1 in Surveillance Environments RNP1 in Non- Surveillance Environments	Int. Airports
Approach	RNP APCH with Baro-VNAV	Int. Airports

Mid Term (2018 – 2023)

Phase of Flight	Navigation Specification	Places
En - route	RNAV5 & RNAV1	Tehran FIR (At or Above FL 200)
TMA	RNAV1 in Surveillance Environments RNP1 in Non- Surveillance Environments	Domestic Airports
Approach	RNP APCH with Baro-VNAV	Domestic Airports
	In case of operational benefits, commencement of RNP AR study phase	Int. Airports

Long Term (2023 – 2028)

- **Enroute**:

  RNAV 5 & RNAV 1 at or above FL160
- **TMA**:

  Fully completed
- **Approach**:

  GLS for Int. Airports

Training

- **ATC**: Under planning
- **Procedure Designers**: 3 officers were trained in SAA

Challenges

- Data gathering
- Data validation
- Flight Validation

Thank
you