



CNS Report

Civil Aviation Organization of
I.R.IRAN
CAO.IRI





Some Facts About IRAN

- Population: 79 million
- Area: 1,648,195 km²
- Located in ICAO MID Region, Neighborhood of EUR/NAT and APAC Regions





IRAN Aviation Structure





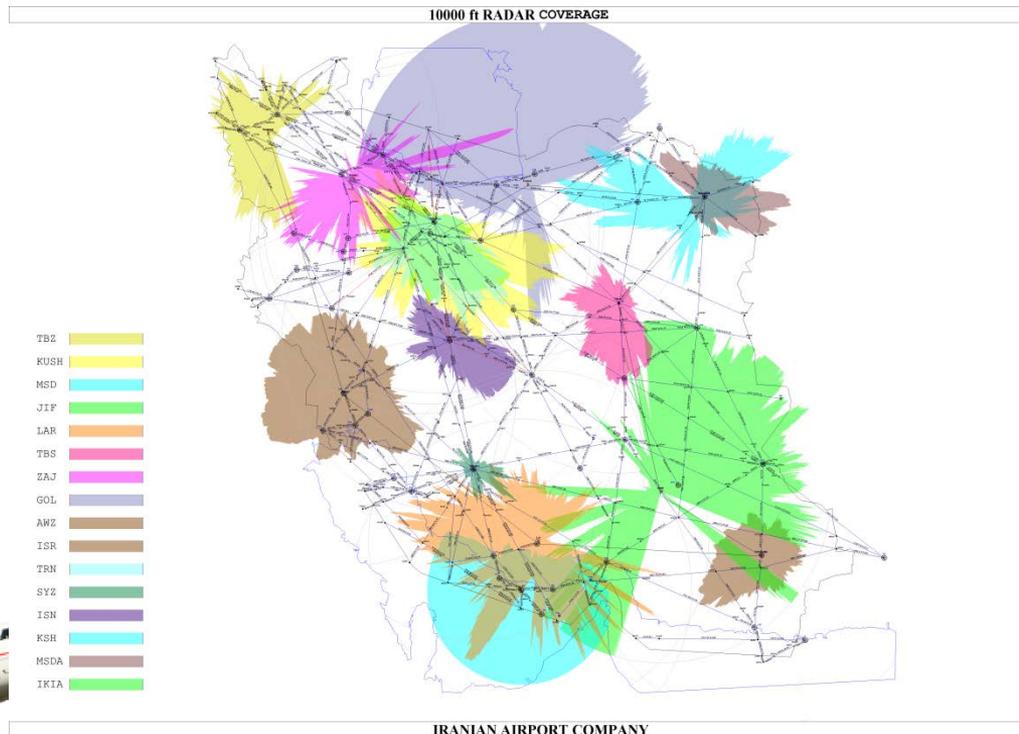
Iran Aviation, Facts & Figures

- 80 Airports
 - 9 International Airports
 - 56 Airports affiliated to IAC
- ~1100 daily over flights
- ~400 daily domestic flights
- 33 million passengers per year



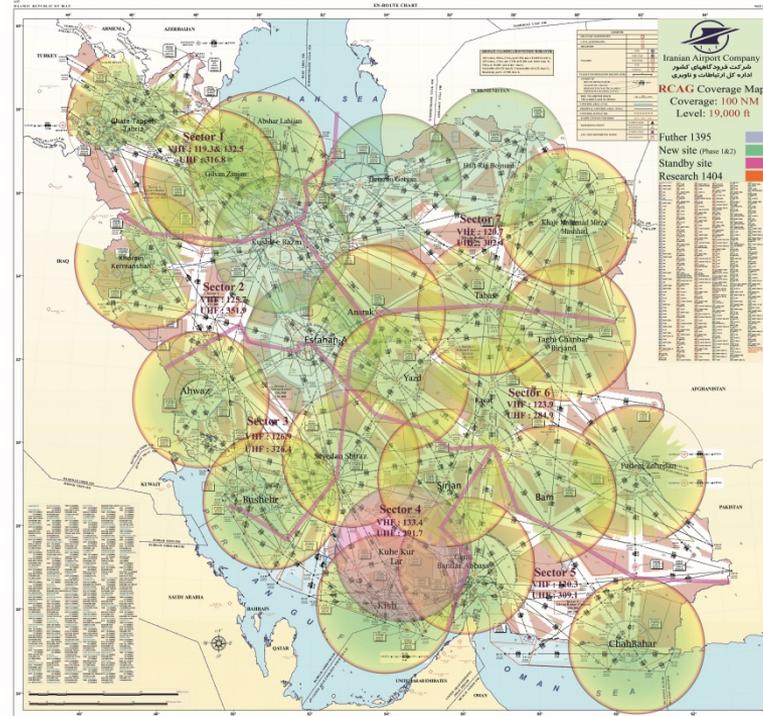


VHF Coverage, 10,000 FT





VHF Coverage, 19,000 FT

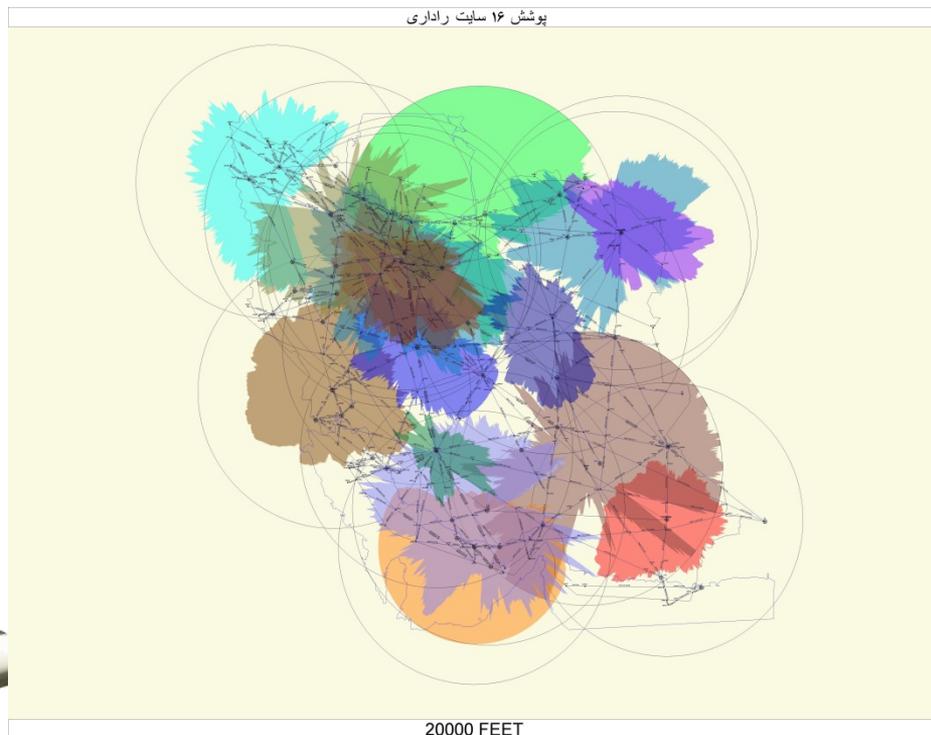


Design by RCAG Team : Mohammad Reza Bagheri Sanjari , Mehdi Taj , Hadi Tabasi



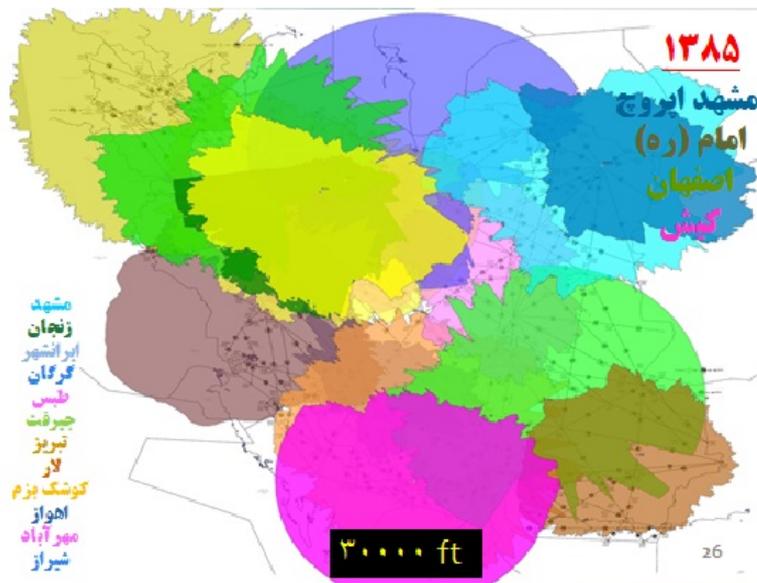


Surveillance Coverage, 20,000 FT





Surveillance Coverage, 30,000 ft





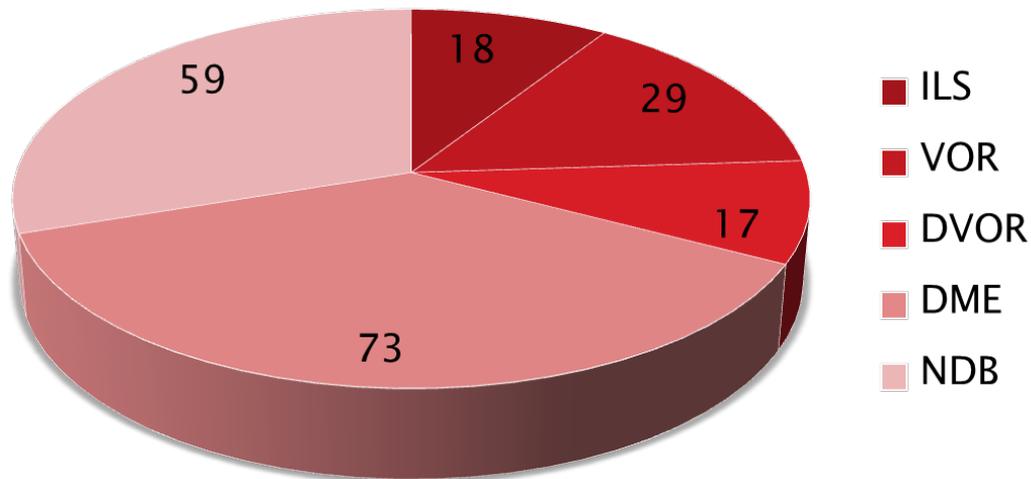
ADS-B

- Operational Tests will be start before 2017 in Tehran ACC





Conventional Navigation Aids





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





PBN- Enroute

- RNAV 5
 - 43 RNAV 5 ATS Routes Implemented
- RNAV 1
 - 5 RNAV 1 ATS Route Implemented





PBN- Approach

- LNAV/VNAN in the International Aerodromes
 - OIIE – Implemented
 - OIII – 26 MAY 2016 RWY 29 L
 - OIMM – 28 APR 2016
 - OIFM – 21 JUL 2016
 - OIKB – 28 APR 2016
 - OISS – 23 JUN 2016
 - OITT – 23 JUN 2016
 - OIZH – 26 MAY 2016
 - OIYY – 21 JUL 2016





PBN- SIDs/STARs

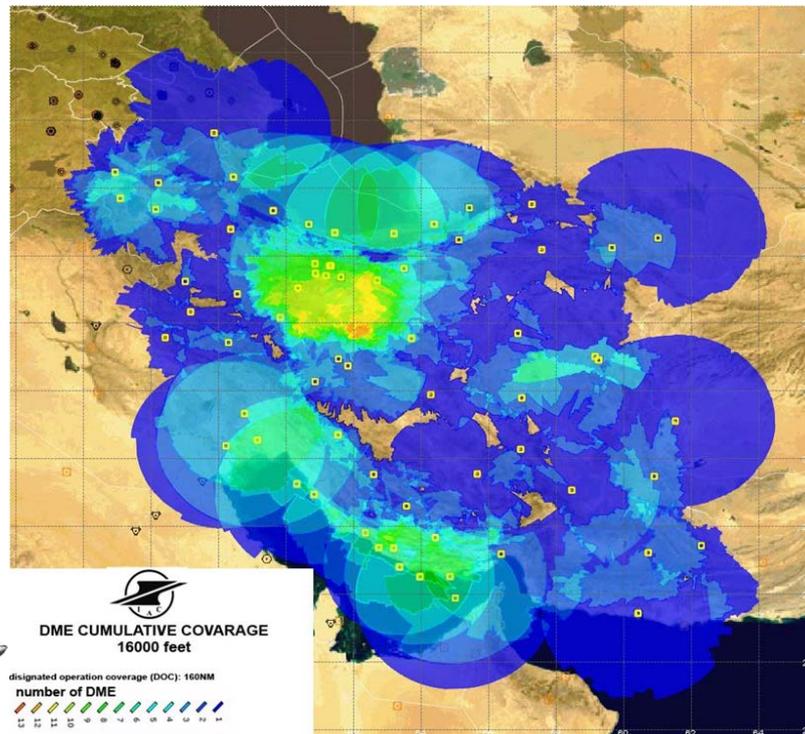
- International Aerodromes

- OIIE – Implemented
- OIII – 26 MAY 2016
- OIMM – 28 APR 2016
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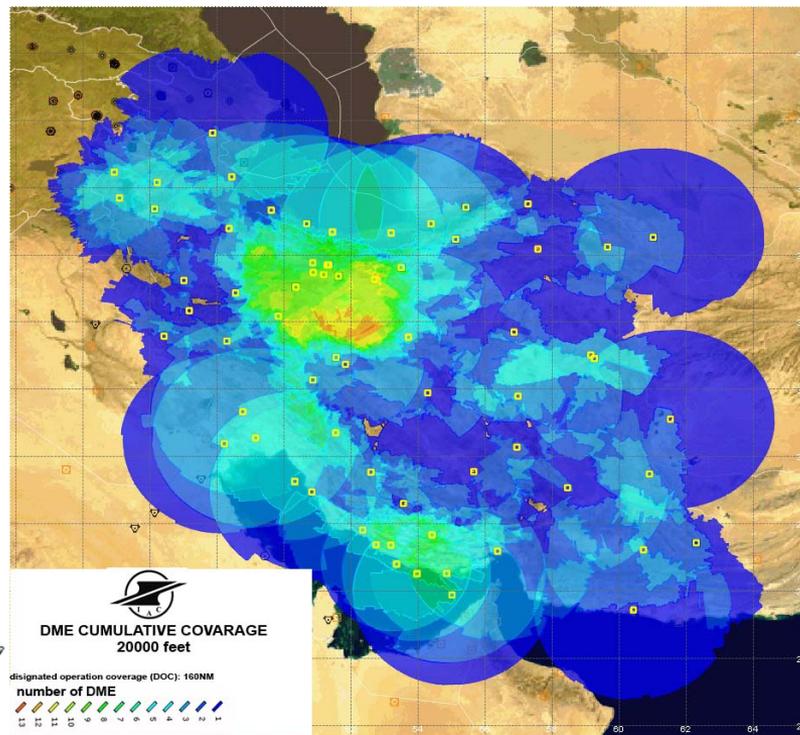


DME Coverage, 16,000 FT



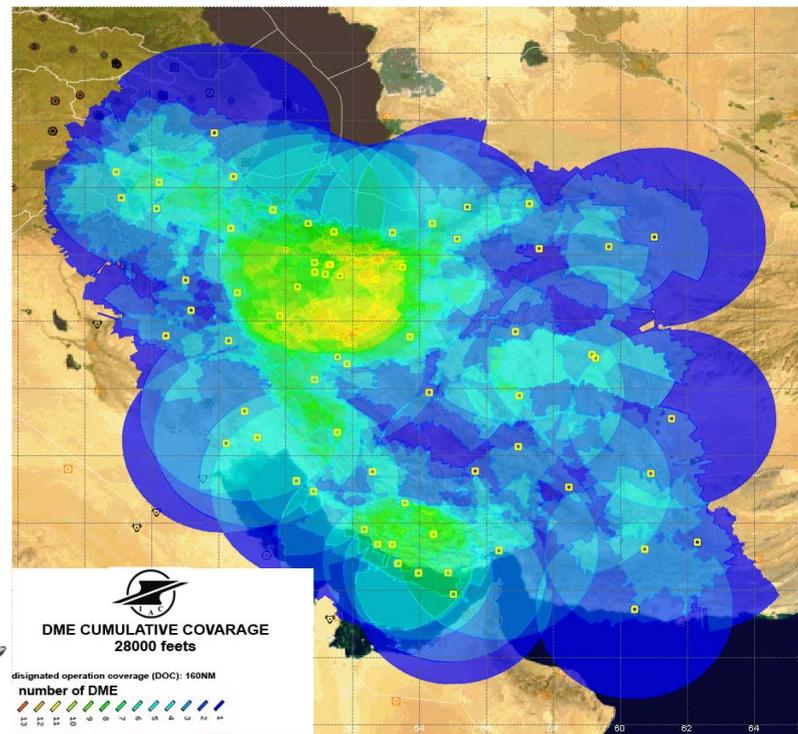


DME Coverage, 20,000 FT





DME Coverage, 28,000 FT





GNSS Augmentation

- No SBAS for Commercial Air Transport





ASBU- B0

B0 – FICE: Increased Interoperability, Efficiency and Capacity through Ground-Ground Integration

Elements		Status
AMHS capability	Having the AMHS capability	Equipment is ready, to be operational before 2018
AMHS implementation /interconnection	Having the AMHS implemented (interconnected with other States AMHS)	To be implemented by 2018
Implementation of AIDC/OLDI between adjacent ACCs	Tehran ACC having implemented at least one interface to use AIDC/OLDI with a neighboring ACCs	Implemented



ASBU- B0

B0 – ACAS: ACAS Implementation

Elements

Status

Avionics

requiring carriage of ACAS (TCAS v 7.1) for aircraft with a max certificated take-off mass greater than 5.7 tons

To be implemented in FIR by 2017,
No new aircraft registration without TCAS V 7.1





Miscellaneous

- Flight Calibration In IRAN
 - 50 years history
 - Risk management approach in lack of services
 - Outsourcing the services
 - New aircraft is operational, operated by service provider
 - King air 300, 2013, Aerodata latest technology
 - Ready to provide services to other states





EP-BAA, entering into services





Miscellaneous

- CNS Safety Oversight
 - Issuance of Approval for Service providers base on:
 - Acceptance of established quality system
 - Equipment design, manufacturing, maintenance and operation
 - Management system
 - Qualification of personnel
 - SOPs
 - Performance indicators
 - Oversight activities





Challenges

- Regulatory issues:
 - Lack of guidance material regarding management system specifications
 - Lack of guidance regarding equipment manufacturing certification
 - Oversight guidelines





Action by the meeting

- The meeting is invited to:
 - a) Note the information contained in this presentation;
 - b) Note the updates provided regarding the status of CNS implementation in Iran; and
 - c) Note the experience and capability of Iran in providing NAV AIDs flight check services to other States.





Thank You

