



Efforts to Develop Air Navigation Services in Libya

CNS/ATM Modernization and ICAO Alignment (2023–2026)

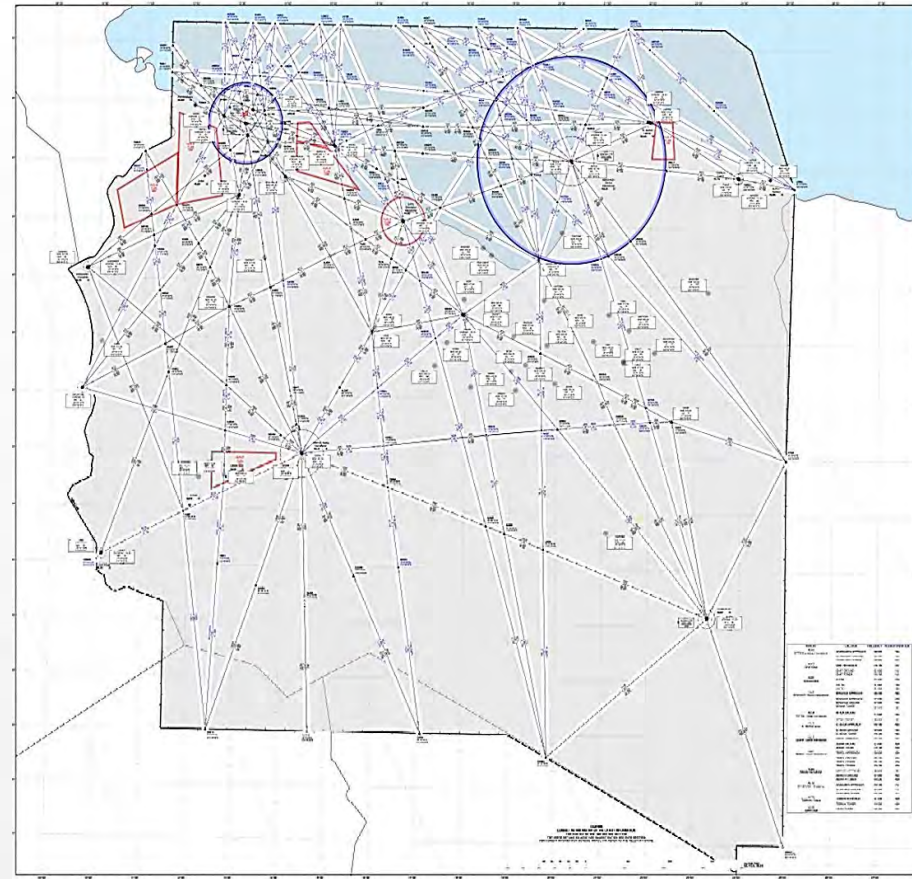


Prepared by : ANS TF

Tripoli FIR – Libyan Airspace



- ❑ Strategic FIR linking EUR, AFI, and MID regions.
- ❑ Supports shortest routing for intercontinental traffic.
- ❑ Growing role in regional traffic.
- ❑ Potential contribution to global ATM network efficiency.



Regulatory & Governance Framework



- LYCAA responsible for State civil aviation oversight and ANS development.
- Compliance with ICAO provisions.
- Implementation of ANSP SMS.
- Alignment with ICAO GANP and RANP objectives.

ICAO: Annexes.

Introduction

- ICAO SARPS (Standards and Recommended Practices) for each area of ICAO responsibility are contained in 19 Annexes.
- Each Annex deals with a particular subject area. All are subject to regular amendment and the detail in respect of many of them is contained in publications in the numbered ICAO Document Series.

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Operational Recovery and Performance Indicators



- 15,726 overflights safely handled during 2025.
- Progressive return of major international operators.
- Effective handling of traffic diversions caused by airspace closures in 2026.
- Demonstrated operational resilience and Airspace capacity



Current CNS Infrastructure Status



- ✓ En-route and terminal VOR/DME and D-VOR/DME network operational.
- ✓ ILS CAT I system is operational at Mitiga, Misrata, Benina, and Al Abraaq.
- ✓ NDB facilities maintained for contingency and domestic operations.
- ✓ NAVAID Flight calibration ongoing.



Surveillance and Situational Awareness



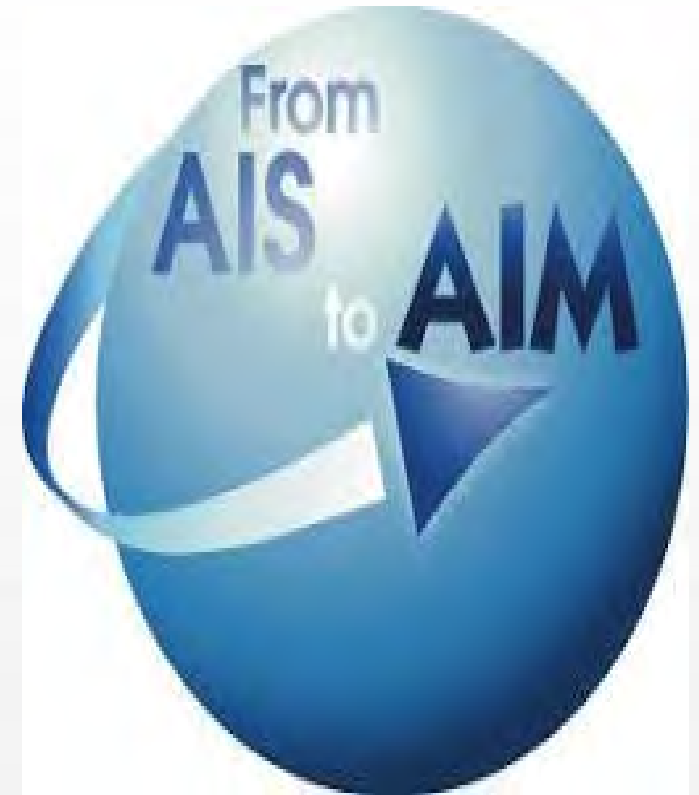
- ✓ ADS-B stations in Benghazi, Misrata and Tripoli installed with ATM System (Thales) pending for project completion and regulatory approval by LYCAA.
- ✓ Phased operational integration into ATM environment.
- ✓ Radar modernization project under procurement of 3 PSR/SSR stations with Indra company.
- ✓ Enhanced FIR visibility and coordination with adjacent FIRs, Letter of Agreements (5 out of 6).

Adjacent FIR	Status of ATC LoA	Remarks
Cairo	✓	Updated 2022
Malta	✓	Updated 2025
Tunis	✓	Updated 2025
Algiers	✓	expected 2026
N'Djamena	✓	Updated 2025
Khartoum	✓	2008

Information management



- Transition from AIS to AIM in accordance with ICAO Annex 15.
- Fully AMHS Implemented.
- Certified personnel trained according to ICAO supervision.
- Preparation for digital aeronautical data management.
- Foundation for future SWIM-enabled environment.



contribution of Libyan Airports



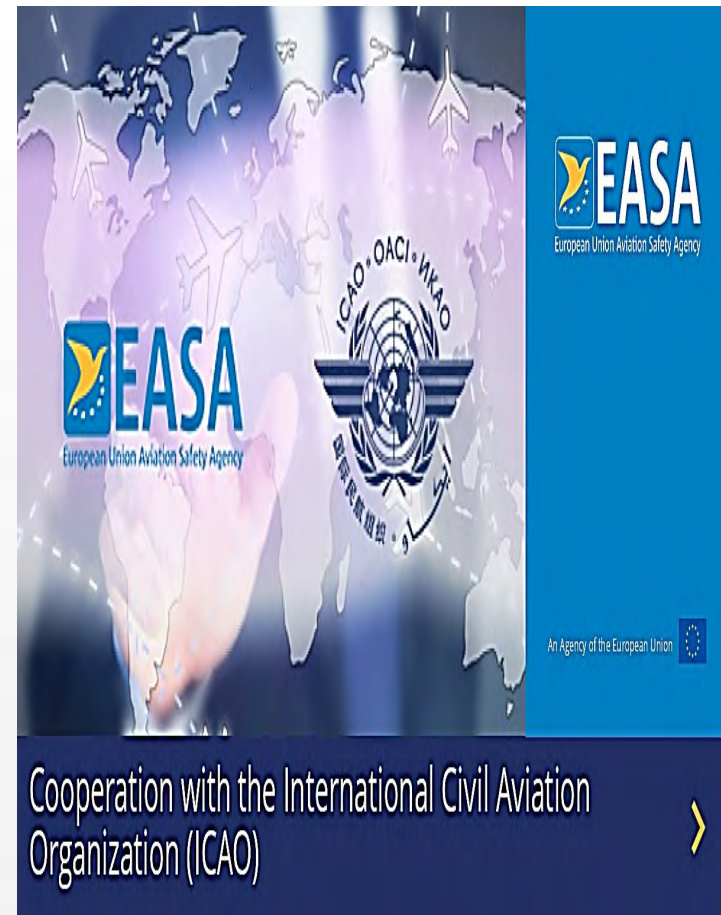
- Libyan airports play an important role in supporting and enhancing air traffic by undergoing continuous development in line with international standards and regulations.
- These efforts contribute to improving safety, operational efficiency, and connectivity at both regional and international levels.



Operational Constraints



The challenges facing air navigation in Libya include flight restrictions imposed by some countries, in addition to operational and regulatory constraints that impact air traffic flow and connectivity.



Proposal LYCAA Solutions



- Strengthening safety oversight.
- Enhancing cooperation and transparency.
- Upgrading air navigation services and infrastructure
- Capacity building and training programs.
- Sharing safety performance data and risk assessments.
- Enhancing international (ICAO) and regional (MID Office) cooperation, including diplomatic engagement with states concerned by the imposed restrictions.

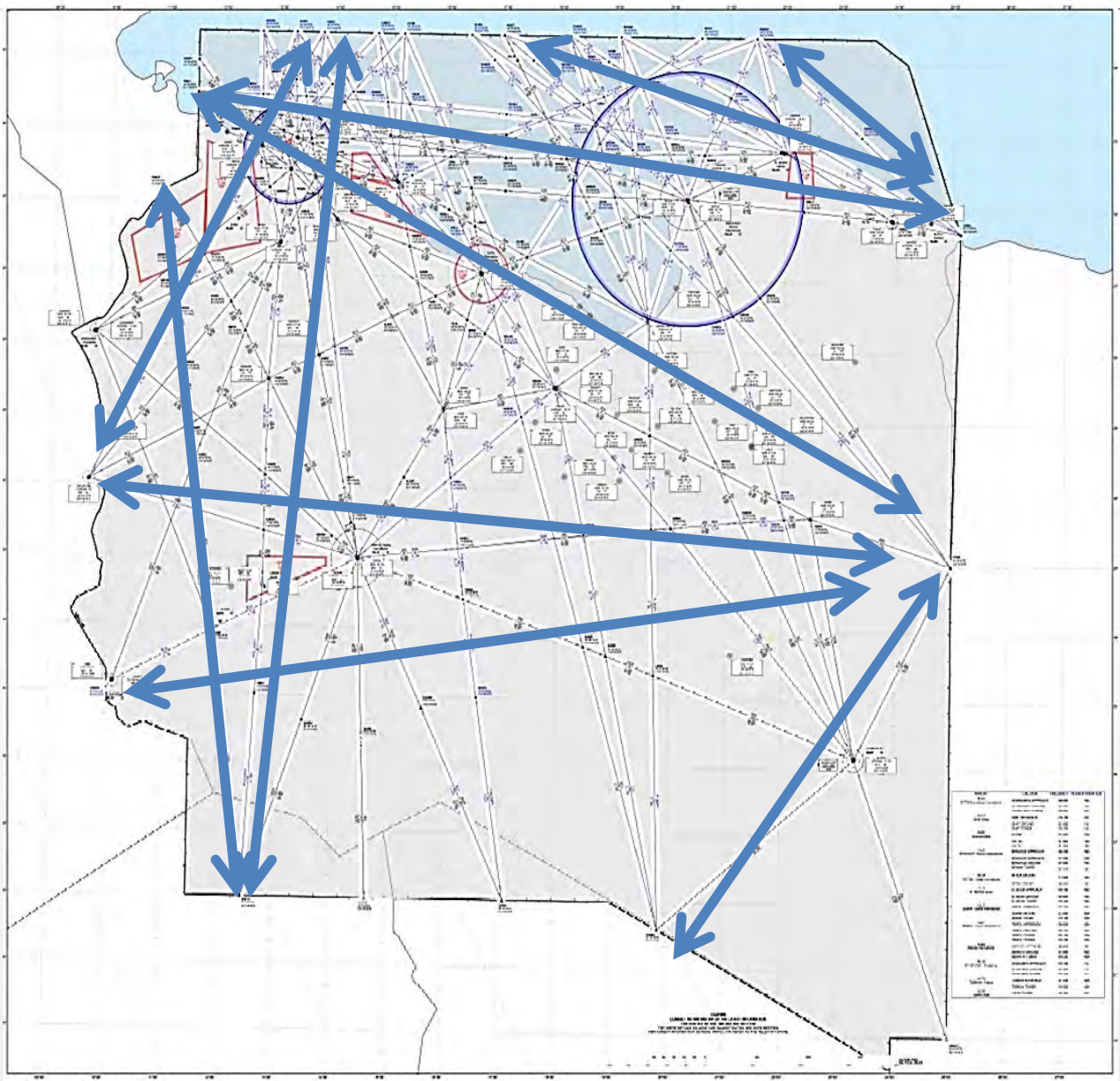
Outlook 2026+ and Strategic Objectives



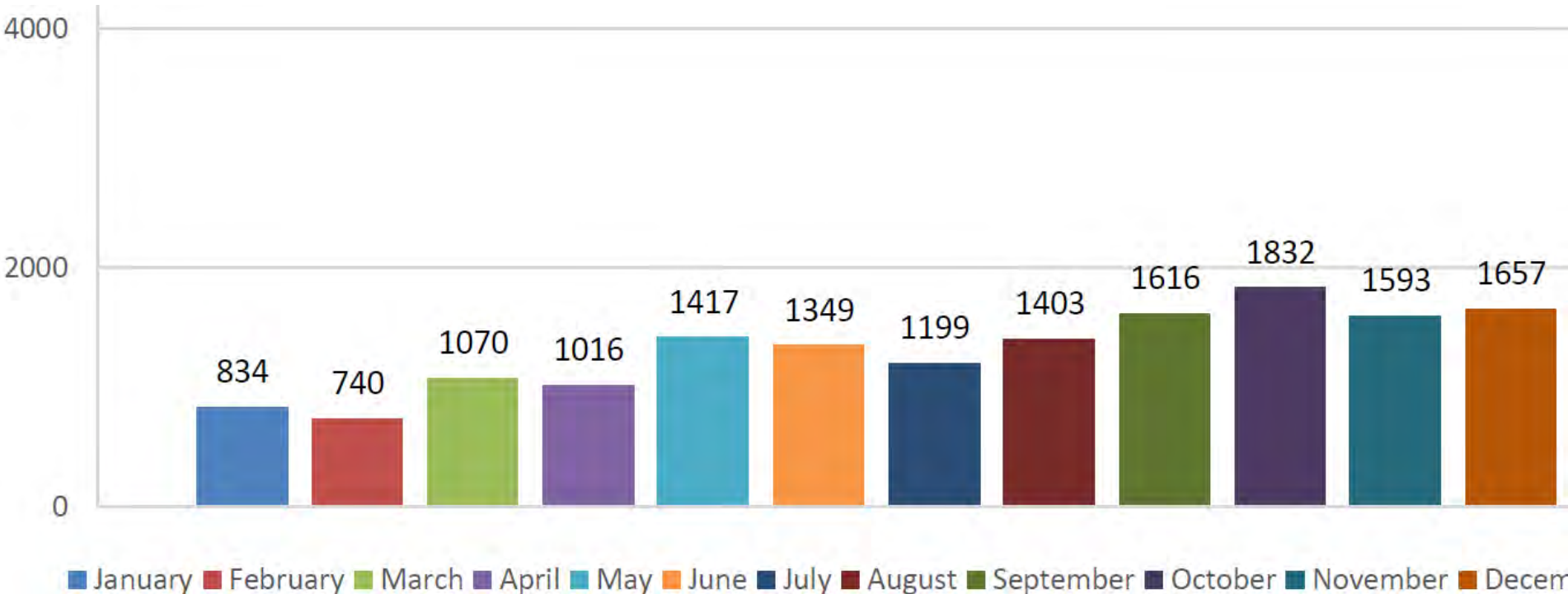
- Forecast traffic growth of approximately 78% by 2026.
- Completion of CNS, surveillance, and AIM projects.
- Continued alignment with ICAO GANP (ASBU framework).
- Positioning Libya as a reliable regional ANSP.



Current situation: OVF Routes



Statistical report OVF for 2025



Statistical report OVF per operator 2025



Airline	Number of Flights	Percentage
EgyptAir	3,799	24.16%
Qatar Airways	3,709	23.59%
Emirates	3,650	23.21%
Other Airlines	4,568	29.04%
Total	15,726	100%

Statistical report list of Operators 2025



- **List of Airlines Operating To / From and Overflying Libyan Airspace:**

1. Libyan Air Operators
2. Libyan Airlines (LAA)
3. Afriqiyah Airways (AAW)
4. Berniq Airways (BNL)
5. Buraq Air (BRQ)
6. Libyan Wings (LWA)
7. Medsky Airways (MNS)
8. Crown Airways (CWN)
9. Air Ambulance
10. Libyan express (LXX)
11. Air Libya (TLR)
12. Petro Air (PEO)
13. Oya Airways (OYA)
14. Global Air (GAK)
15. Liban State VIP (LYB)
16. Ghadames Airlines (GMS)
17. Almaha (Helicopter)

- **Foreign Air Operators – Scheduled / Charter ARR/DEP Services:**

1. Turkish Airlines (THY)
2. Royal Jordanian (RJA)
3. EgyptAir (MSR)
4. ITA Airways (ITY)

5. United Nation (UNO)
6. Elit Avia Malta (EAU)
7. Harmony Jets (HMJ)
8. Air Master (RMX)
9. Bon Air
10. Syrian Air (SYR)
11. Other operators

- **Foreign Air Operators – Overflying Libyan Airspace**

1. Emirates (UAE)
2. EgyptAir (MSR)
3. Qatar Airways (QTR)
4. Turkish Airlines (THY)
5. Etihad Airways (ETD)
6. Ethiopian Airlines (ETH)
7. Iraqi Airways (IAW)
8. Max Air (NGL)
9. Middle East Airline (MEA)
10. ULS Airlines Cargo (KZU)
11. Air Master (RMX)
12. Air Explore (APK)
13. Shirak Avia (SHS)
14. SkyMark Executive (SMB)
15. Terra Avia (SZN)
16. Other Privat company



THANK YOU

