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الهيئة العامة للطيران المدني
GENERAL CIVIL AVIATION AUTHORITY

ATM SG/11 & CNS SG/14 MEETINGS

19-23 Oct. 2025 Abu Dhabi, UAE

وزارة الطيران المدني
Ministry of Civil Aviation

سلطة الطيران المدني المصرية
ECAA
Egyptian Civil Aviation Authority

Cairo FIR

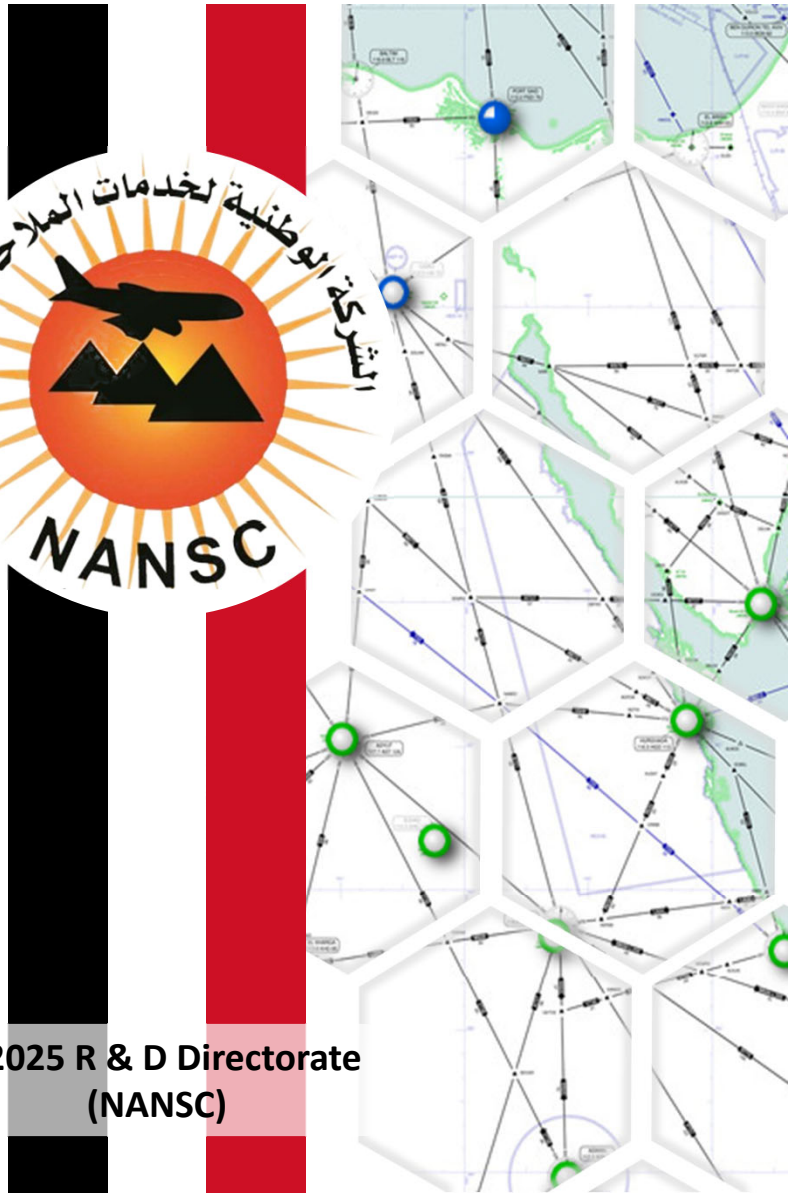
Cairo FIR Optimization– Phase 3

Eleventh Meeting of the MIDANPIRG Air Traffic Management Sub-Group (ATM SG/11)

Abu Dhabi, UAE 19-23 October 2025

2030 رؤية مصر VISION OF EGYPT

الشركة الوطنية لخدمات الملاحة الجوية
NANSC



Cairo FIR Optimization Plan

1. Cairo FIR Optimization– Phase 1

   2 routes implementation 2024

1. Cairo FIR Optimization– Phase 2

   11 routes implementation date: April 2025

2. Cairo FIR Optimization– Phase 3

   7 routes Ongoing process.

Cairo FIR Optimization– Phase 3

KUMBI-CVO (direct route)

- It has been established as a Night route to enhance the efficiency of air traffic flow from Western Europe through the Athens FIR.

- This route improves Safety and Capacity by segregating inbound traffic via KUMBI waypoint from the existing outbound and inbound traffic Airway A16.

Benefits and Expected Outcomes	
Distance Reduction	**9.5** NM
Time Savings	Approx. **1** MINs
Fuel Efficiency	Approx. **43.9** kg
Emissions Reduction	Approx. **138.8** kg

Cairo FIR Optimization– Phase 3

❖ Direct air traffic route between (DATOK-PSD-MELDO-NEW POINT)

✈ A new direct route is being proposed to attract and manage air traffic flow from the Gulf/Far East heading to Eastern Europe, via the Athens FIR

Benefits and Expected Outcomes	
Distance Reduction	**68.5** NM
Time Savings	Approx. **10** MINs
Fuel Efficiency	Approx. **2166.4** kg
Emissions Reduction	Approx. **1001.1** kg

Cairo FIR Optimization– Phase 3

❖**A direct route between (SISIK and NABSI)**

It is expected to provide significant Operational and Environmental benefits by reducing both Carbon Dioxide Emissions and Noise Pollution over the Cairo and minimizing conflicts over CVO.

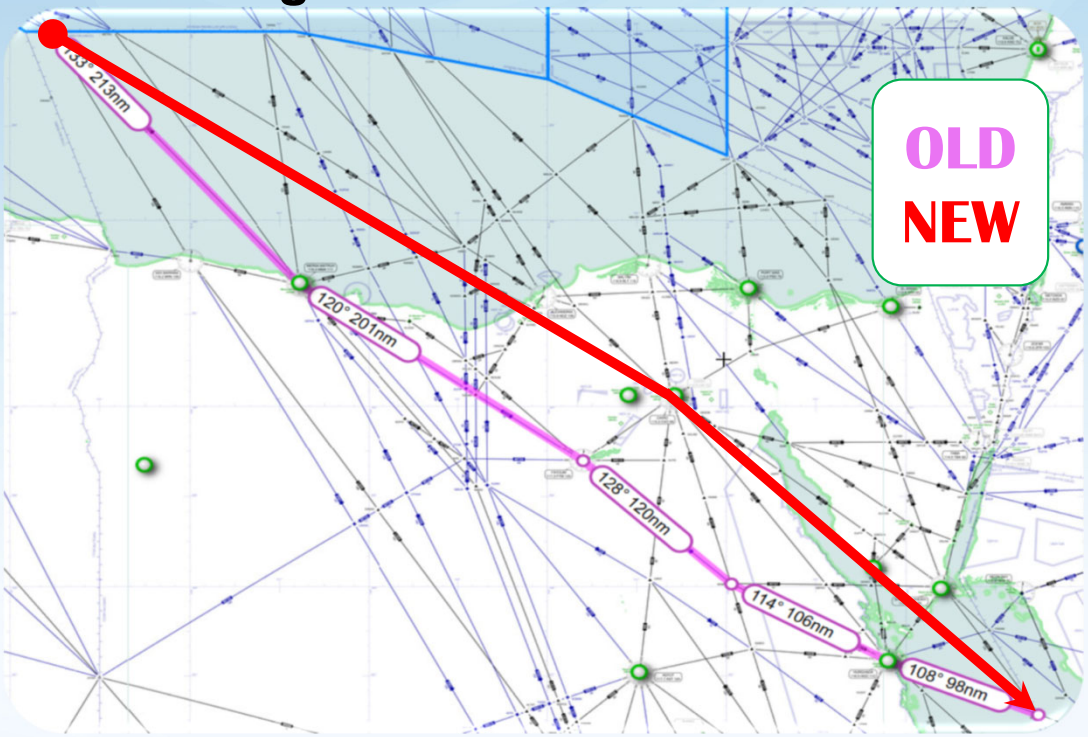
Benefits and Expected Outcomes	
Distance Reduction	**5.5** NM
Time Savings	Approx. **1** MINs
Fuel Efficiency	Approx. **25.4** kg
Emissions Reduction	Approx. **80.4** kg

Cairo FIR Optimization– Phase 3

❖A direct (night) route (SALUN-CVO-SILKA).

✈It will optimize flight Efficiency by minimizing the Rate Of Turn and establishing a Direct Path for all traffic landing HECA via SALUN.

Benefits and Expected Outcomes	
Distance Reduction	**11** NM
Time Savings	Approx. 2 MINs
Fuel Efficiency	Approx. **50.9** kg
Emissions Reduction	Approx. **160.8** kg



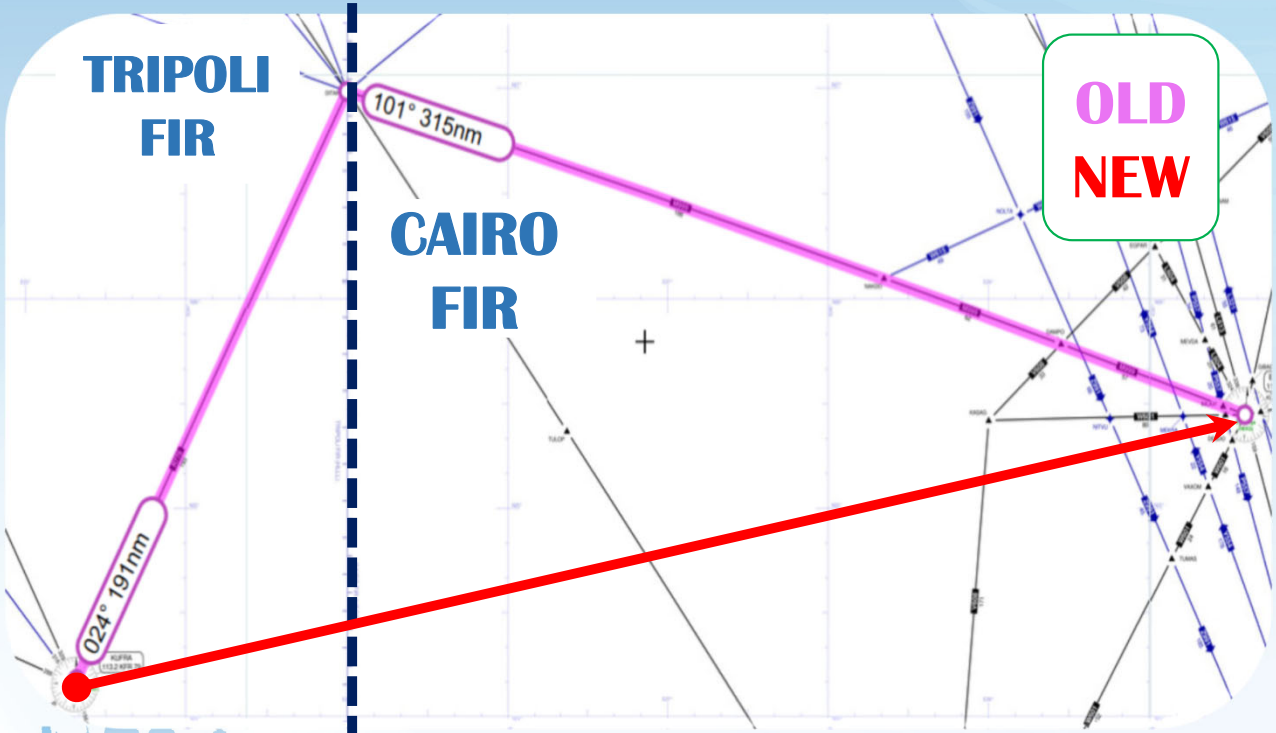
Cairo FIR Optimization– Phase 3

❖ **Implementation of New Direct Routes Between Egypt and Libya:**

- **Two new direct routes will be implemented: one connecting Kufra and KHG, and the second linking LIGAT and KHG.**
- **These routes were established through a high degree of coordination with stakeholders, including Egypt, Libya, (ICAO), (IATA).**
- **Benefits and Strategic Impact :**
  1. **Operational Efficiency and Cost Savings By offering shorter distances.**
  2. **Environmental Impact by reducing flight distance and carbon dioxide emissions.**
  3. **These routes Enhance Global Connectivity by creating a link between the Gulf area with Africa and South America.**

Cairo FIR Optimization– Phase 3

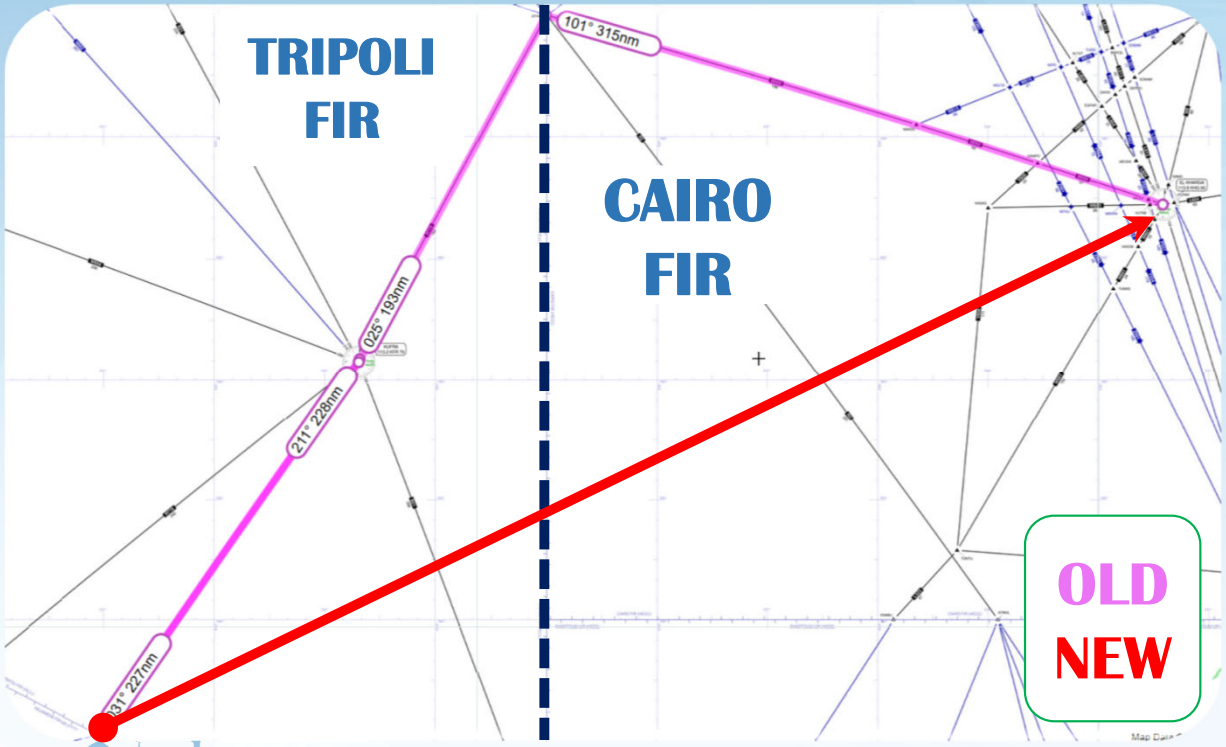
❖A Direct Kufra (KFR) to KHG Route



Benefits and Expected Outcomes	
Distance Reduction	**102.1** NM
Time Savings	Approx. **15** MINs
Fuel Efficiency	Approx. **472.2** kg
Emissions Reduction	Approx. **1492.2** kg

Cairo FIR Optimization– Phase 3

❖A Direct LIGAT to KHG Route



Benefits and Expected Outcomes	
Distance Reduction	**159.3** NM
Time Savings	Approx. **23** MINs
Fuel Efficiency	Approx. **736.8** kg
Emissions Reduction	Approx. **2328.2** kg

Route	Distance Saving (NM)	Fuel Savings (kg)	Fuel Savings (%)	No. of flights per day	Carbon Emission Savings (kg) per flight	Carbon Emission Savings (kg) per day
KUMBI-CVO	9.5	43.9	3.6%	47	138.8	6525.6
DATOK- New Exit point	68.5	2166.4	40.5%	10	1001.1	10011.3
SISIK- NABSI	5.5	25.4	2.4%	41	80.4	3295.7
KFR -New Point- KHG	102.1	472.2	20.1%	16	1492.2	23875.2
LIGAT-New Point- KHG	159.3	736.8	21.0%	16	2328.2	37251.2
METRU- REXUM- FYM	25.8	119.3	6.2%	57	377.1	21492.8
SALUN-CVO-SILKA	11	50.9	1.5%	95	160.8	15272.7
Total	381.7	3614.9		282	5578.6	117724.5

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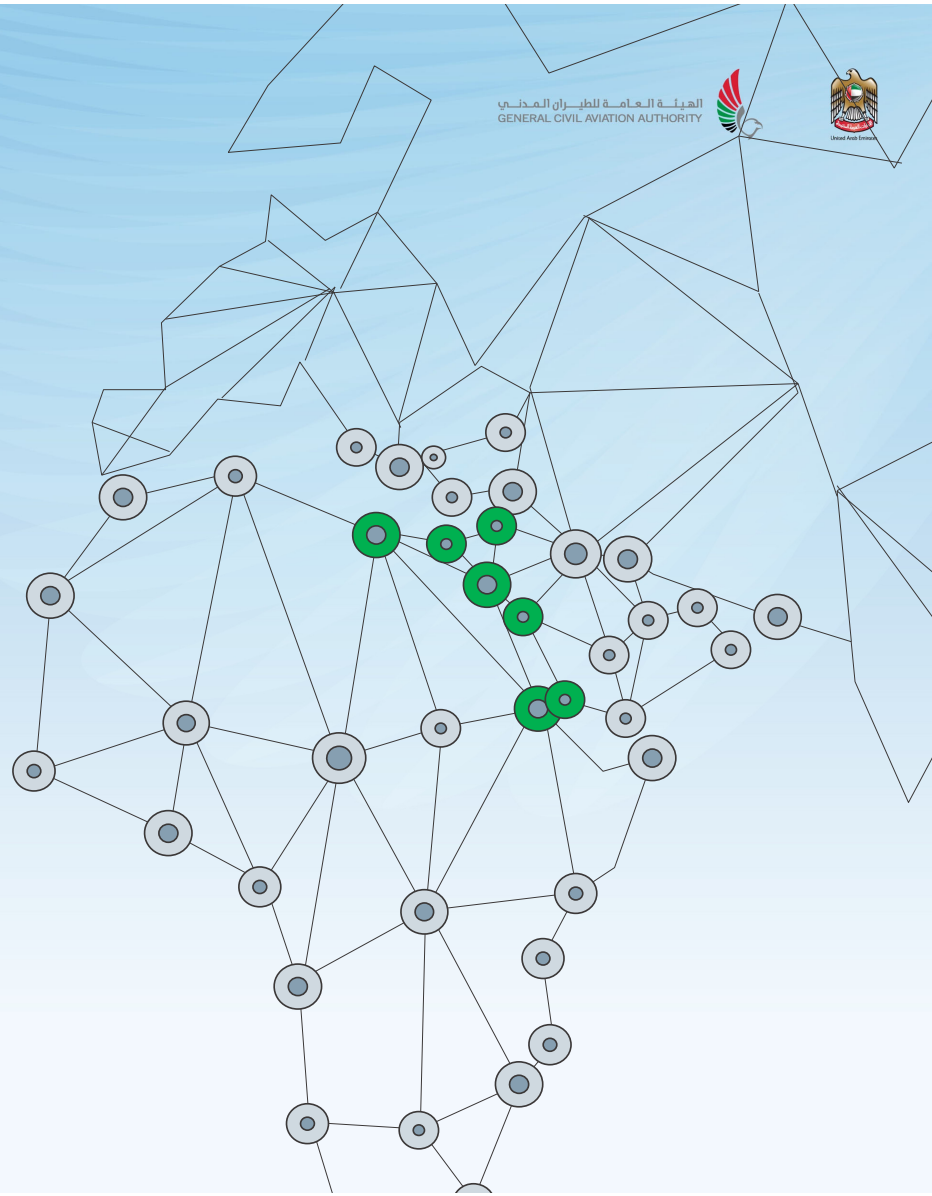
Cairo FIR Restructure Project.



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Parallel to Cairo FIR Optimization plan Egypt is progressing Cairo FIR Restructure Project.

We are currently in Data Collection And Planning phase.

Egypt has utilized an agreement with ICAO/CDI to manage the project in line with ICAO requirements including Support coordination with stakeholders, Development of Conceptual concept, Design, validation, training, etc.

This project aims to modernize the Airways network within Egyptian airspace to increase capacity , efficiency and Enhancing Safety.

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THANK YOU

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R & D Directorate

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