



**Twenty Sixth Meeting of the Africa-Indian Ocean Planning and Implementation Regional Group
(APIRG/26)**

7 - 8 November 2023

Agenda Item 3: Implementation of air navigation goals, targets and indicators, including the priorities set in the regional air navigation plan

3.6. Other Air Navigation Initiatives

Progress of Cabo Verde projects

(Presented by CABO VERDE)

SUMMARY	
<p>This information paper presents the progress of Cabo Verde projects in accordance with the Global Air Navigation Plan (Doc 9750) and Global Safety Initiatives.</p> <p>Action by the Meeting is as per paragraph 3.</p>	
<i>References</i>	<p>Doc 9750, Global Air Navigation Plan</p> <p>Doc 7474, Air Navigation Plan — Africa-Indian Ocean Region</p> <p>Doc 10004 Global Aviation Safety Plan</p>
<i>Strategic Objectives</i>	<p>A – Aviation Safety; B – Air navigation Capacity and Efficiency; E – Environmental Protection.</p>

1. INTRODUCTION

1.1. ICAO Global Air Navigation Plan presents all States a planning tool supporting a harmonized global Air Navigation system. It identifies all potential performance improvements available today, details the next generation of ground and avionics technologies that will be deployed worldwide.

1.2. Cabo Verde is committed to the implementation of the Global and Regional Air Navigation mentioned above. Therefore, in 2019, the ANSP developed an Operational Master Plan based on a prioritization of benefits in terms of key performance areas such as Safety, Security, environmental Impact, Cost effectiveness, Capacity, Flight efficiency, Flexibility, and Interoperability.

2. DISCUSSION – Progress of Cabo Verde Projects

2.1. The ANSP Master Plan aggregates a concept of operations, strategic initiatives, and key priorities according to the State's needs.

2.2. The following Projects have been fully implemented:

2.2.1. Certification of ATS, CNS and AIS

2.2.2. Modernization of the ATM system: the new ATM system is in full operation since June 2023 after a successful transition period

2.2.3. Implementation of Performance Based Navigation (PBN) Procedures at all 4 International Airports (CDO and CCO in two of them)

2.2.4. ADS-B Implementation to improve surveillance capabilities:

2.2.4.1. A successful Factory Acceptance Test (FAT) was conducted in May 2023

2.2.4.2. A set of ground ADS-B antennas was installed in August (2 antennas in Santo Antão, 1 antenna in Santiago and 1 antenna in Sal)

2.2.4.3. A Site Acceptance Test (SAT) was successfully conducted in September, thus, allowing full implementation of ADS-B, pending the development of ADS-B based procedures

2.3. The following initiatives are being carried out:

2.3.1. Implementation of AIDC with Dakar and Santa Maria

2.3.1.1. Successful trials have been conducted with Dakar and Santa Maria

2.3.1.2. The new ATM System is interoperable with Dakar's and Santa Maria's

2.3.1.3. New LOAs to be signed

2.3.2. PBCS implementation in line with the Regional Action Plans (AFI and SAT)

2.3.2.1. Trials conducted in the EUR/SAM Corridor a few years ago confirmed SAL FIR capability to comply with RCP240 and RSP180 with the "old" system. The new ATM system (MANAGAIR) is now able to analyse, monitor and report PBCS data. It was not possible to do so with the superseded ATM system.

2.3.3. Free Route Airspace (FRA)

2.3.3.1. It is not published since there are still some requirements to be met. However, Free Route using Direct Routing is applied within SAL FIR tactically on pilot's request according to *AFI region Free Route Airspace (FRA) implementation CONOPS*.

2.3.3.2. Transition from AIS to AIM: Phase 1 and 2 implemented.

2.3.3.3. Digital Aeronautical Information Management

2.3.3.3.1. Digital data sets

2.3.3.3.1.1. Terrain and obstacle data sets

2.3.3.3.1.2. Aerodrome mapping data sets

2.3.3.3.1.3. Instrument flight procedures data sets

2.3.3.4. TMA restructuring to accommodate CCO and CDO Concepts

3 ACTION BY THE MEETING

3.1. The meeting is invited to:

- take note of progress of Cabo Verde projects; and
- to encourage States/ANSP to develop their Air Navigation (ATM) Master Plan according to GANP Roadmap.