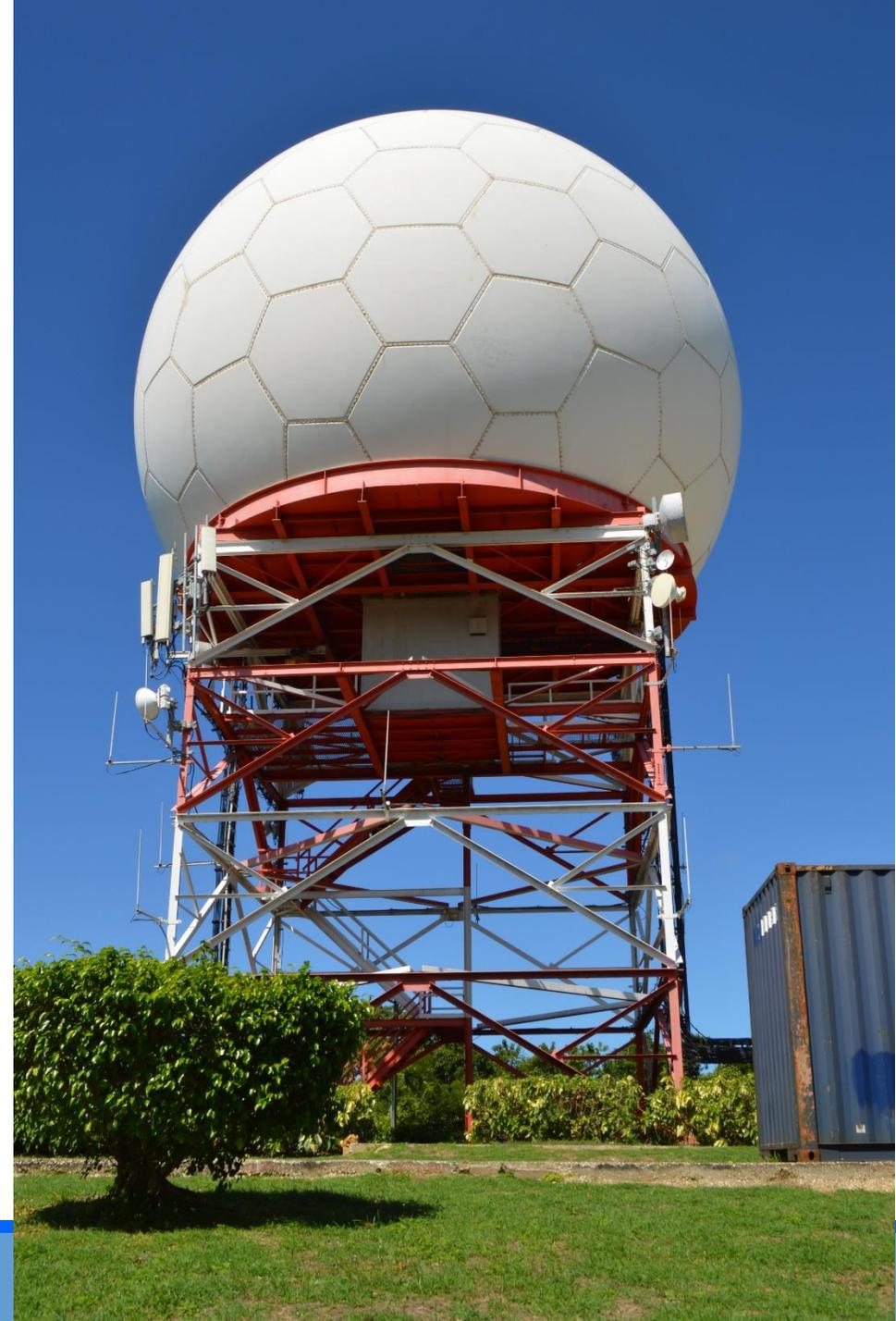




JAMAICA CIVIL AVIATION AUTHORITY

# REGIONAL AIR NAVIGATIONAL PLAN UPDATE

February 17, 2022



# MANDATED AIR NAVIGATION SERVICES

In-House



Air Traffic Management

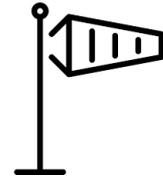


Aeronautical Information Management



Aeronautical Telecommunication Services  
(Communications, Navigation & Surveillance)

## Delegated



Aviation Meteorology Services (MET)

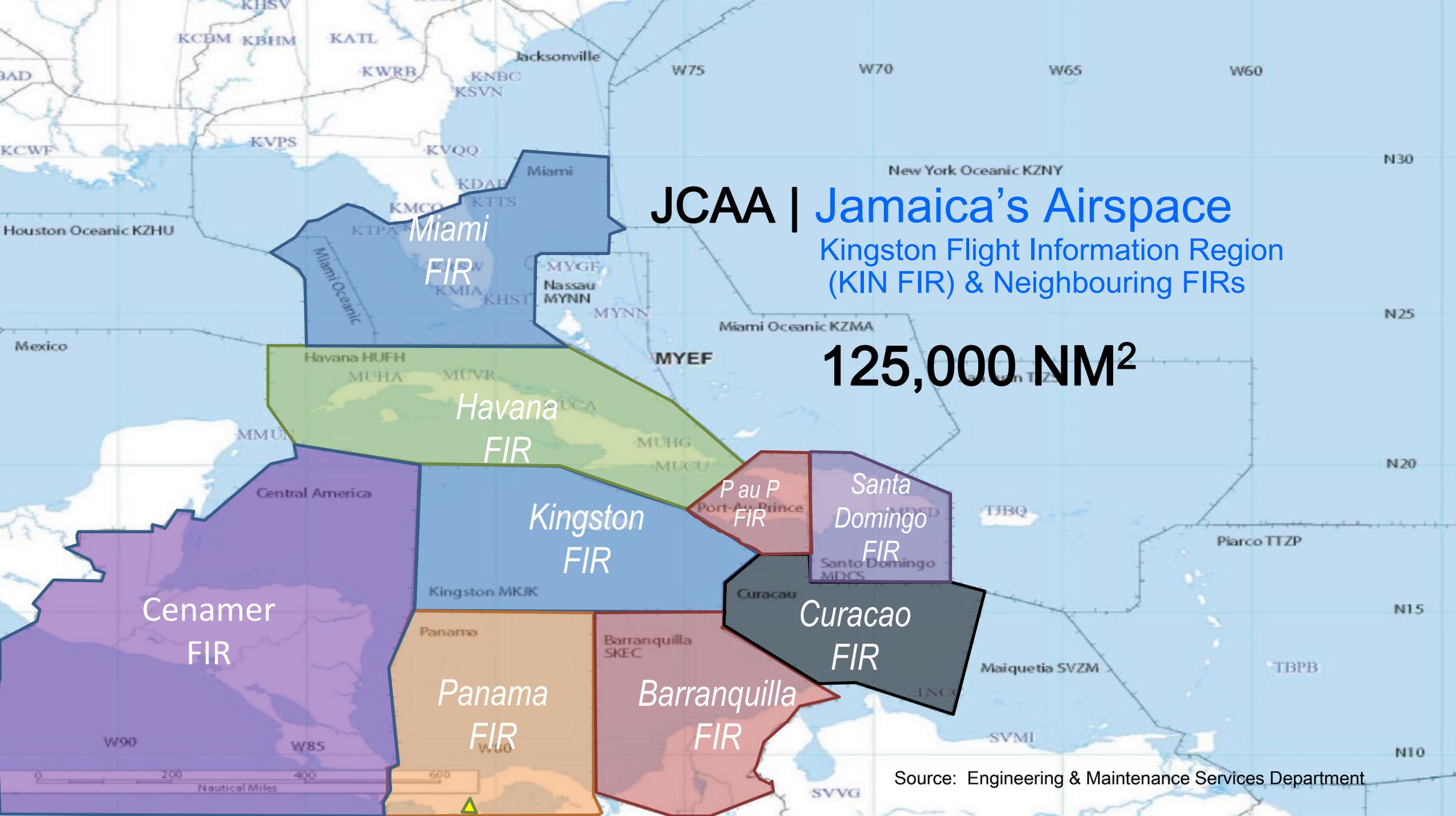


Aeronautical Search & Rescue Services (JDF)

# MANDATED AIR NAVIGATION SERVICES

- ❑ Safety and Compliance  
Department





# JCAA | Jamaica's Airspace

Kingston Flight Information Region (KIN FIR) & Neighbouring FIRs

125,000 NM<sup>2</sup>

Miami  
FIR

Havana  
FIR

Kingston  
FIR

Cenamer  
FIR

Panama  
FIR

Barranquilla  
FIR

Curacao  
FIR

Santa  
Domingo  
FIR

Source: Engineering & Maintenance Services Department

# CRITICAL FACILITIES, INFRASTRUCTURE & SYSTEMS

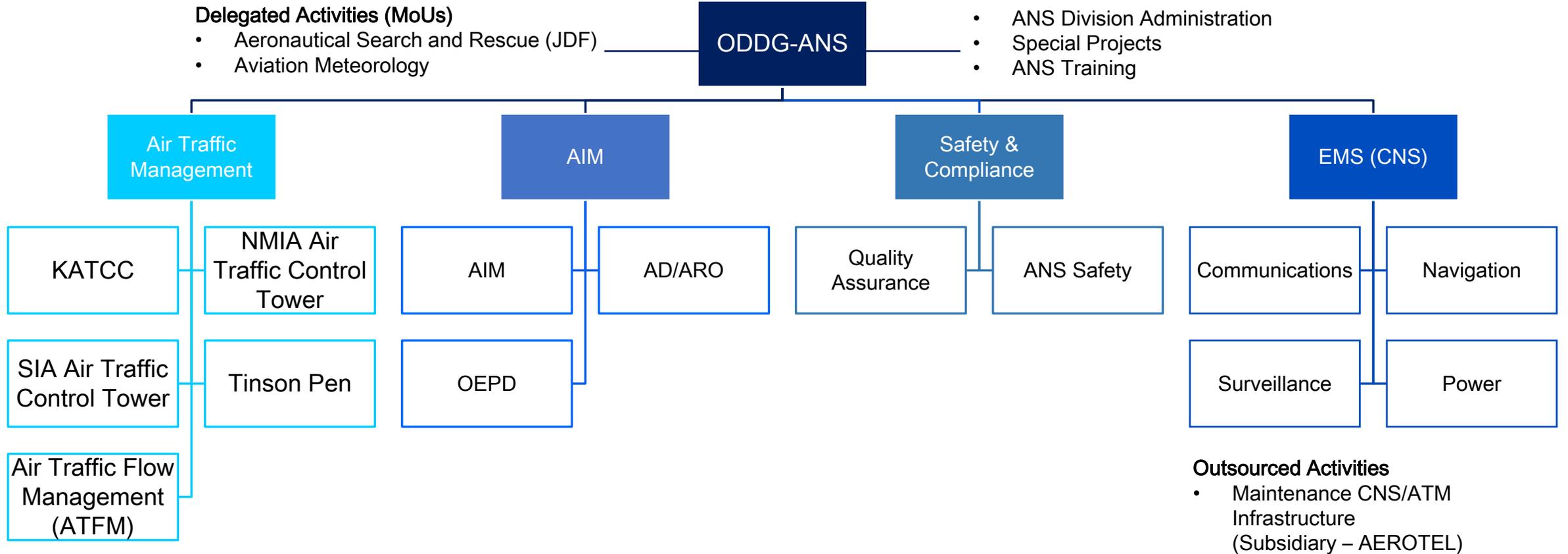
- Kingston Air Traffic Control Centre (KATCC) – JCAA Headquarters
- AIM NOF – JCAA H/Q
- AD/ARO - NMIA
  
- Two (2) Standalone Air Traffic Control (ATC) Towers
  - Norman Manley International Airport (NMIA)
  - Sangster International Airport (SIA)
  
- Three Radar Facilities
  - Mount Denham (Primary & Secondary MSSR)
  - Norwood (Secondary MSSR)
  - Manley (Secondary MSSR)

# STRATEGIC OBJECTIVE 2022 – 2027

SAFE, SECURE & EFFICIENT AIR NAVIGATION SERVICES

- Continued upgrade and maintenance of CNS/ATM infrastructure and ATM/AIM systems
- Improve operational capacity and efficiency
- Improvement of expertise through robust training and development programme & succession planning

# AIR NAVIGATION SERVICES



Office of the  
**DEPUTY  
DIRECTOR  
GENERAL,  
AIR NAVIGATION  
SERVICES**

Oversees the activities necessary for the safe, secure and efficient provision of air navigation services.

## **STRATEGIC FOCUS**

- Implement strategies to meet Global Air Navigation Plan (GANP) obligations through Aviation System Safety Block Upgrade (ASBU)
- Implement strategies to meet Global Aviation Safety Plan (GASP) requirements
- Implement strategies to meet Global Aviation Security Plan (GASeP) requirements

## **PRIORITY & MAJOR PROJECTS**

- ANS Certification Project Management

# AIR TRAFFIC MANAGEMENT

Department

Promotes a safe airspace by preventing collisions between aircraft in the air or between aircraft on the maneuvering area, or collisions between aircraft and terrain or other obstructions. The ATM Department must also expedite and maintain orderly flow of air traffic and provide advice and information useful for the safe and efficient conduct of flights.

Air traffic management is the dynamic, integrated management of air traffic and airspace — safely, economically and efficiently — through the provision of facilities and seamless services in collaboration with all parties

- ICAO Doc. 9854 (Global Air Traffic Management Operational Concept)

## PRIORITY & MAJOR PROJECTS

- ANS Certification
- Implementation of AIDC and CPDLC
- Air Traffic Flow Management (ATFM)
- Airspace Sectorisation

# AERONAUTICAL INFORMATION MANAGEMENT

Department

Ensures the origination, management, sharing and seamless integration of time-sensitive, quality assured digital aeronautical information among all members of the global Air Traffic Management (ATM) community in a safe, secure and efficient manner; Long term goal: distributing aeronautical information via a global System Wide Information Management (SWIM) network.

## STRATEGY

- ICAO Roadmap for the Transition from AIS to AIM
- JCARs 2012, JCAA CORP PLAN, ICAO SARPs, GANP, RPBANIP , ASBU's , POS Declaration

## PRIORITY & MAJOR PROJECTS

- ANS Certification
  - AIM Quality, MANOPs & USMs
- AIM Transition
  - Data Chain Mngt/ Quality (P1)- WIP
  - Electronic AIP (P2)- WIP
  - LOAs, Training (P3)-WIP
- Airspace Optimization
  - CDO/CCO (MKJP) -WIP

# ENGINEERING & MAINTENANCE SERVICES

Department  
(Also known as the Communications, Navigation and Surveillance (CNS) Department)

Responsible for Jamaica's network of communications, navigation and surveillance facilities, infrastructure, systems and team which are foundational for the provision of air navigation services.

The management of communications, navigation, and surveillance systems, employing digital technologies, including satellite systems together with various levels of automation, applied in support of a seamless global air traffic management System

-ICAO Doc. 9750 Global Air Navigation Plan for CNS/ATM Systems

## PRIORITY & MAJOR PROJECTS

- DVOR (NMIA & SIA) –
- Ground Based Augmentation System (GBAS)
- Low Level Wind Shear
- MEVA III Node (Contingency)
- ADS-B

# SAFETY & COMPLIANCE

Department

Responsible for enabling an incident-free, air traffic management environment that facilitates the delivery of safe, orderly and expeditious air traffic management services; with a focus on the identification and correction of deficiencies and the implementation of strategies to continuously improve the Air Traffic Management (ATM) product.

**Strategic** - Annex 19 - Safety Management; Doc 9859 - Safety Management Manual; ISO 9001:2015 – QUALITY MANAGEMENT SYSTEMS and JCARs

## **PRIORITY & MAJOR PROJECTS**

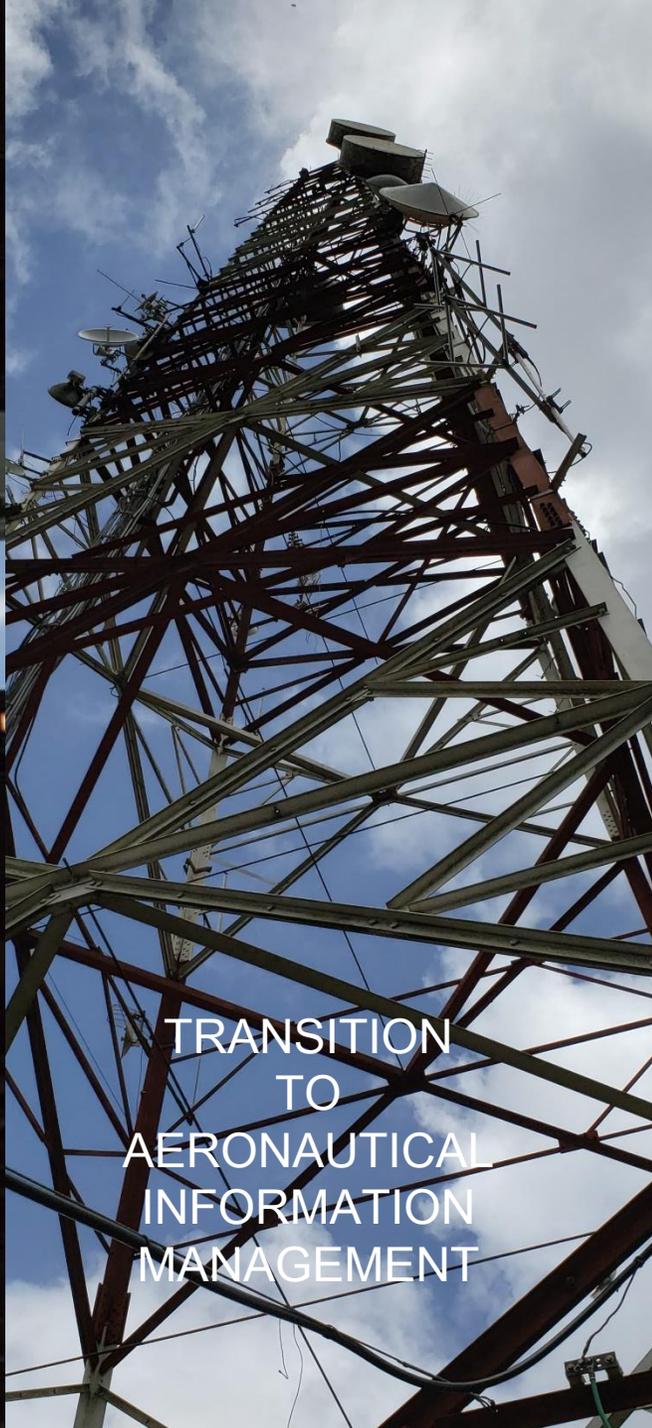
- ANS Certification
- Safety and Quality Management System



CERTIFICATION  
OF PROVIDER OF  
AIR NAVIGATION  
SERVICES



IMPLEMENTATION  
OF A SAFETY  
MANAGEMENT  
SYSTEM



TRANSITION  
TO  
AERONAUTICAL  
INFORMATION  
MANAGEMENT



AVIATION SAFETY  
BLOCK  
UPGRADES  
(ASBU)

# ANS TRAINING, DEVELOPMENT & CERTIFICATION PROGRAMME PRIORITIES

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Performance-Based Navigation (PBN)

Air Traffic Flow Management (ATFM)

Safety and Threat Error Management

Human Factors in Aviation

Fatigue Risk Management

Automatic Dependent Surveillance – Broadcast (ADS-B) Implementation in the Caribbean and South America Region

CNS/ATM Planning

AIM Specialization

# CHALLENGES & OPPORTUNITIES

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COVID-19 Recovery –  
Traffic and Passenger  
growth

Maintaining level of  
technical expertise

Training, Development  
and Certification of  
ATM, CNS and AIM  
personnel

Procurement of new  
CNS/ATM and AIM  
systems

Access to foreign  
technical expertise for  
the repair and upgrade  
of key infrastructure

Keeping pace with  
Regional Air Navigation  
Plan Objectives and  
Priorities



THANK YOU!

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