

Challenges and Objectives



REGIONAL OFFICER
COMMUNICATIONS, NAVIGATION AND SURVEILLANCE

MAYDA ÁVILA

MEXICO, MAY 2019



AGENDA

Global Air Navigation Plan (GANP)

Basic Building Block (BBB)

GANP Structure

RPBANIP objectives

Regional Priorities

Nacional Priorities

Recommendations

GLOBAL AIR NAVIGATION PLAN GANP

https://www4.icao.int/ganpportal

GLOBAL AIR NAVIGATION SYSTEM

★The GANP is an important planning tool for setting global priorities to drive the evolution of the global air navigation system and ensure that the vision of an integrated, harmonized, globally interoperable and seamless system.

Introduction

- ★ the GANP is a key contributor to the achievement of ICAO's Strategic Objectives and has an important role to play in supporting the United Nations 2030 Agenda for Sustainable Development. A key goal that relates to the GANP is Sustainable Development Goal (SDG) 9: Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation. In addition to developing the GANP, ICAO has developed global plans for the specific areas of safety and security: the Global Aviation Safety Plan (GASP, Doc 10004) and the Global Aviation Security Plan (GASeP, Doc 10118).
- **★** These three global plans are complementary.

MULTILAYER STRUCTURE OF THE GANP

GLOBAL STRATEGIC

GLOBAL TECHNICAL

REGIONAL

NATIONAL



Four levels of the GANP.

★GLOBAL STRATEGIC LEVEL

★ The global strategic level is presented as an electronic document, written in executive language and available in the six working languages of ICAO. It provides high-level strategic direction for decision-makers to drive the evolution of the global air navigation system.

Four levels of the GANP.

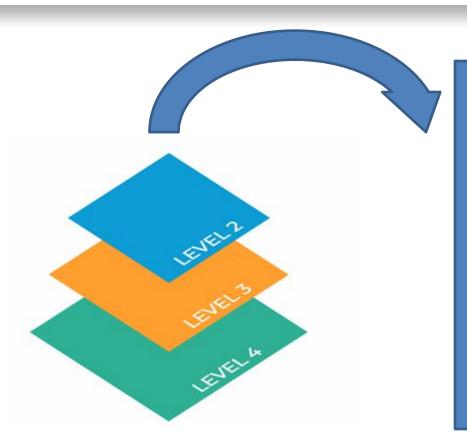
★ GLOBAL TECHNICAL LEVEL

★ Derived from the global strategic level, the global technical level is designed to support technical managers in planning the implementation of basic services and new operational improvements in a scalable and cost-effective manner and according to specic operational and performance needs, while ensuring interoperability of systems and harmonization of procedures.

Four levels of the GANP.

★ REGIONAL AND NATIONAL LEVELS

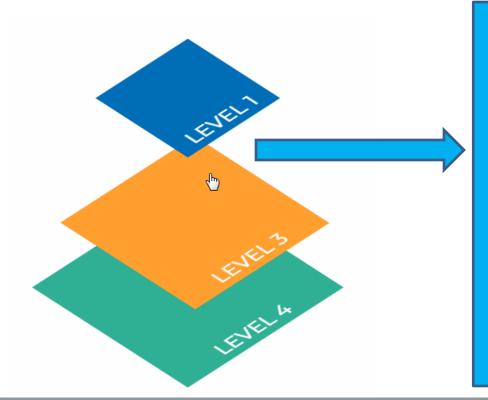
★ The regional and national levels of the GANP ensure consistency from the development of operational improvements to their implementation. Such levels provide the global aviation community with a common basis for short- and medium-term implementation planning.



GLOBAL STRATEGY

Provides high level strategic guidelines for the decision-makers to drive the evolution of the global air navigation system towards an agreed common vision.

Doc. 9750
Global Air Navigation Plan



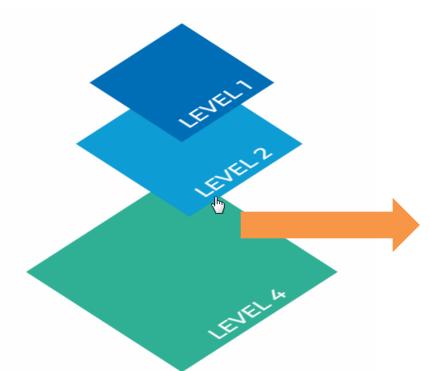
GLOBAL TECHNICAL

Supports technical managers planning the implementation of air navigation basic services and in affordable new operational improvements.

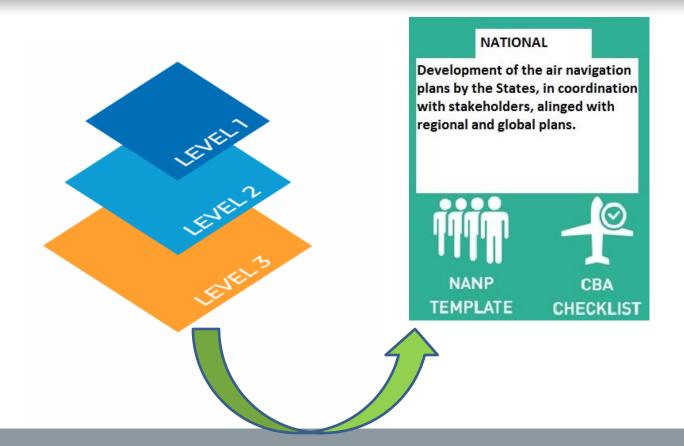


The Basic Building Block (BBB)

- ★ The Basic Building Block (BBB) framework outlines the foundation of any robust air navigation system.
- ★ Identify essential services to be provided for international civil aviation in accordance with ICAO Standards.
- ★ Defined essential services in the areas of aerodromes, air traffic management, search and rescue, meteorology and information management.
- ★ BBB framework identifies the end users of these services as well as the assets (communications, navigation, and surveillance (CNS) infrastructure) that are necessary to provide them.
- ★ BBB constitute the baseline for any operational improvement.







The eleven KPAs of the GANP

Societal Outcome

- Safety
- Security
- Environment

Operational Performance

- Cost-effectiveness
- Capacity
- Efficiency
- Predictability
- Flexibility

Performance Enablers

- Global Interoperability
- Access and equity
- Participation by the ATM community

High External Visibility

Effects are societal and of a political nature

w

Medium External Visibility

Effects are business-level, on users and operators

Low External Visibility

Not directly visible to society and pax



REGIONAL LEVELS



CAR REGIONAL PERFORMANCE-BASED AIR NAVIGATION IMPLEMENTATION PLAN (RPBANIP)

WHY IS RPBANIP IMPORTANT?

- The RPBANIP is the Regional Plan that establishes the Regional Air Navigation Implementation Agreements
- The RPBANIP reflects regional priorities in air navigation
- The current plan is applicable for 2016-2018 and the new version will be applicable for 2019-2021

National Level

★The fourth level, under the responsibility of States, focuses on national planning. The development by the States, in coordination with stakeholders, of air navigation plans, aligned with regional and global plans, is crucial to achieve the common vision that is being carried out in the GANP. These air navigation plans serve as reference documents for national investment in air navigation infrastructure.

Air Navigation Plan

★States must integrate in their air navigation plans, not only global and regional objectives, also all internal and external Stakeholders needs to ensure Air Navigation Plan success implementation.



WHY CHANGE ANI/WG?

- ★ The mechanisms that have been used, are not the best ones.
- ★ We have conclusion and decision open through time, without any improve.
- ★ Development aeronautical project and implementation of new system without any operational benefit.
- ★ Bought equipment, software, that never have been use.
- ★ Lack of integration because lack of technical and operational standardization.

WHY CHANGE ANI/WG?

- ★We must implement more quickly.
- ★We must define objectives and be able to measure the benefit of those objectives implementation.
- ★We must be constantly prepared for the changes.
- ★There are new challenges in front of us that we must manage.



Human Talent Management

The aviation industry provides personal and social benefits. Gather people: families, friends and business colleagues. It gives people the freedom to be almost anywhere in just 24 hours and has turned a great planet into a small world full of huge and infinite opportunities. But this is just the half of the story.

World population and the growth of prosperity will make air travel accessible to more people. Similarly, the current trend towards economic globalization will further strengthen the need to rapidly move high-value goods around the world, creating a growing market for air cargo. Therefore, within the next fifteen years, air traffic is expected to double the movement of passengers and goods throughout the world.

Enabling technologies, such as increasingly autonomous systems and artificial intelligence, encompass a wide range of aviation capabilities ranging from the capabilities of today's

automatic systems, such as autopilots

necessary for air traffic management systems to perform complex tasks.

and remote pilots, to the highly sophisticated systems that would be

Cybersecurity

Competitiveness

Conectivity

Environmentfriendly

Revolutionary Technologies in the Aviation Industry















New Proposals to RPBANIP changes



ANS OPERATION PLAN 2019						
REA	2019 OPERATIN	IG PLAN	TASK FORCE	AREA	ANS BENEFITS 2019-2020	ACTIVITIES AND PLANNED TARGET
IM	(MI) Assist States in the implementation of policies and provides on information Management (Anniet : ENN-W)		AIM TF	Aeronautical Information		Promove SWIM implementation
тм	CAP.NACC.5 Anoth States in the implementation of policies and positions to optimize alrepace and airport usage [ANYWP : ROHOS]		ATFM TF SAR/RESCUE	Operational Implementation	Efficiency Longitudinal reduction to applicable separation	Support AIDC implementation, radar data sharing, improve communication and air navigation infraestructure
NS	[CNS) Assist States in the implementation of policies and providees on Comman kidden, Marigation and Sarveillence [CNS] (ANIMY::DNB-CNS]		MEVA/AMMS TF ADC/FPL FT ASSUTE SURVEF	Infraestructure	Predictability/Flexibility Standardization of Aeronautical Information	Gradual and standarized PBN implementation through regional goals
IET	(NET) Assist States in the implementation of policies and providions on Meteoology (MAWIF): Methodogy (MAWIF): thick are associate the implementation of policies and providion on the control of the implementation of policies and providion of the implementation of policies and policies (MAMIF):	effs at to most		Enviormental Protection	Enviornment CO2 Emissions reduction	Integrated ANS measure mechanisms in all areas.
	IM IM	IM CAP_NACC.2 (IMI) Ansist States in the implementation of policies and provisions on Information Management (ANNIET : ENS-BV) ANNIET : ENS-BV) ENS-BV :	IM CAP_NACC.3 (IMI) Assist States in the implementation of policies and provisions on Information Management (IAMMET : END-INV) AND CAP_NACC.3 Anoth States in the implementations of policies and possitions to optimize alreade and all profit unage (IAMMET : END-INV) ATM CAP_NACC.1 [CNS) Assist States in the implementation of policies and provisions on Core man koldies, Navigations on Core man koldies, Navigations on Core man koldies, Navigations of END-INV CNI CNI CNI ENV.NACC.1, Z. States and on CO2 emissions reduction, assessment of environmental benefits within are associated to the implementation of galaxies and environmental conditions on Meteorology (IAMMET): END-INV END-INV END-INV LOVE TO A CO2 CNI CNI CNI CNI CNI CNI CNI CN	TM CAP NACC.2 ONI Assist States in the implementation of policies and provisions on information Management (ANNET: ENE-NO ANNET: ENE-NO ANDET: ENE-NO ANNET: ENE-NO A	IM CAP.NACC.2 OMI Audit States in the surprised on information places and previous or the management (ANNERS of the places on information the information th	MM COP-NACC3 WM Area States in the implementation of sackers or the implementation of sackers of the implementation of sackers or the implementation or the implementation or the implementation of s

NAM/CAR Air Navigation Implementation Working Group (ANI/WG) and North American, Central American and Caribbean Working Group (NACC/WG) Structure



ANI/WG does not include AGA/MET

Vice Chairman: Mr. Rohan Garib (Trinidad and Tobago) Chairman: Mr. Julio Mejia (Dominican Republic)

ICAO

ANI/WG Members
Points of Contact (PoCs)
designated by each
State/Territory/Int
Organization

Surveillance Systems Implementation (SUR) Task Force Mr. Carlos Jiménez (Cuba) Task Force on Air Traffic Services Inter-Facility Data Communication (AIDC) Implementation Mr. Fernando Casso

> (Dominican Republic)

Aeronautical Information Management (AIM) Implementation Task Force

Ms. Natasha Leonora-Belefanti (Curacao) ATS Message Handling System (AMHS) Implementation Task Force

Dulce M. Rosés (United States) Air Traffic Flow Management (ATFM) Implementation Task Force

Mr- Roosevelt Peña (Dominican Republic) Performance-Based Navigation (PBN) Airspace Concept Task Force

Mr Riaaz Mohammed (Trinidad and Tobago) Aviation System Block Upgrade (ASBU) Task Force Ms.Midori Tanino (United States)

ICAO NACC Regional Office propose:



Propose 1:

- ★That States ensure the integration of global, regional and national priorities in their air navigation plans.
- ★That ANI/WG meeting define a deadline for States to inform to ICAO NACC Regional Office of their national priorities.



Propose 2:



- ★ That ANI/WG Task Force groups analyze the global and regional requirements and update their work action plans to ensure:
 - ★ Develop tasks with the objective of achieving the three regional objectives proposed by ICAO NACC Regional Office.
 - ★ Be sure to identify common activities to be development for each task force.
 - ★ Finally, it is recommended that ANI/WG meeting define a deadline to Task Force to update their Action plans.

Propose 3:

★That different aviation organizations, industry, connect with the region and integrate themselves into this work so that the goals are common and can be achieved in less time.



ICAO NACC Regional Office

★Support the activities of the different Task Force.





ICAO CAPACITY & EFFICIENCY

