



| ICAO

# INTERNATIONAL CIVIL AVIATION ORGANIZATION

A UN SPECIALIZED AGENCY

*Workshop on the Implementation  
of the Amendment 82 to Annex 3  
to Chicago Convention and the  
PANS-MET*

*(Praia, Cabo Verde, 30 March – 3 April 2026)*



# Session 1: ICAO regulatory framework related to MET

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## PPT1.1. ICAO Standards and Recommended Practices (SARPs) related to aeronautical meteorological services

*ICAO, WACAF Office*

# Overview

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- |           |   |           |   |
|-----------|---|-----------|---|
| <b>01</b> | <b>Chicago Convention (CC)</b>                          | <b>02</b> | <b>Implementation of the CC</b>                                     |
| <b>03</b> | <b>International Civil Aviation Organization (ICAO)</b> | <b>04</b> | <b>Document hierarchy</b>   |
| <b>05</b> | <b>MET SARPs</b>  | <b>06</b> | <b>Essential MET Services</b>                                       |
| <b>07</b> | <b>Amendment to A3 and PANS-MET</b>                     | <b>08</b> | <b>MET services according to AMDs and the evolution of the GANP</b> |
| <b>09</b> | <b>Summary</b>  |           |   |

# Convention on International Civil Aviation

## 1944

### CHICAGO CONVENTION

Signature by 52 States (on 7 December 1944) of the Convention on International Civil Aviation (Chicago Convention).

Establishing the legal basis for international civil aviation (global legal framework)



Doc 7300/9



**Convention on  
International Civil Aviation**

**Convention relative à  
l'aviation civile internationale**

**Convenio sobre  
Aviación Civil Internacional**

**Конвенция о международной  
гражданской авиации**

This document supersedes Doc 7300/8.  
Le présent document annule et remplace le Doc 7300/8.  
Este documento reemplaza el Doc 7300/8.  
Настоящий документ заменяет Doc 7300/8.

Ninth Edition – Neuvième édition – Novena edición – Издание девятое — 2006

International Civil Aviation Organization  
Organisation de l'aviation civile internationale  
Organización de Aviación Civil Internacional  
Международная организация гражданской авиации

# Implementation of the Convention

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**1947**

## ENTRY INTO FORCE OF THE ICAO

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Creation of the **International Civil Aviation Organization (ICAO)** - **Specialized agency of the United Nations**, responsible for implementing the Chicago Convention

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**Main mission:** To ensure the safe, orderly and sustainable development of international civil aviation.

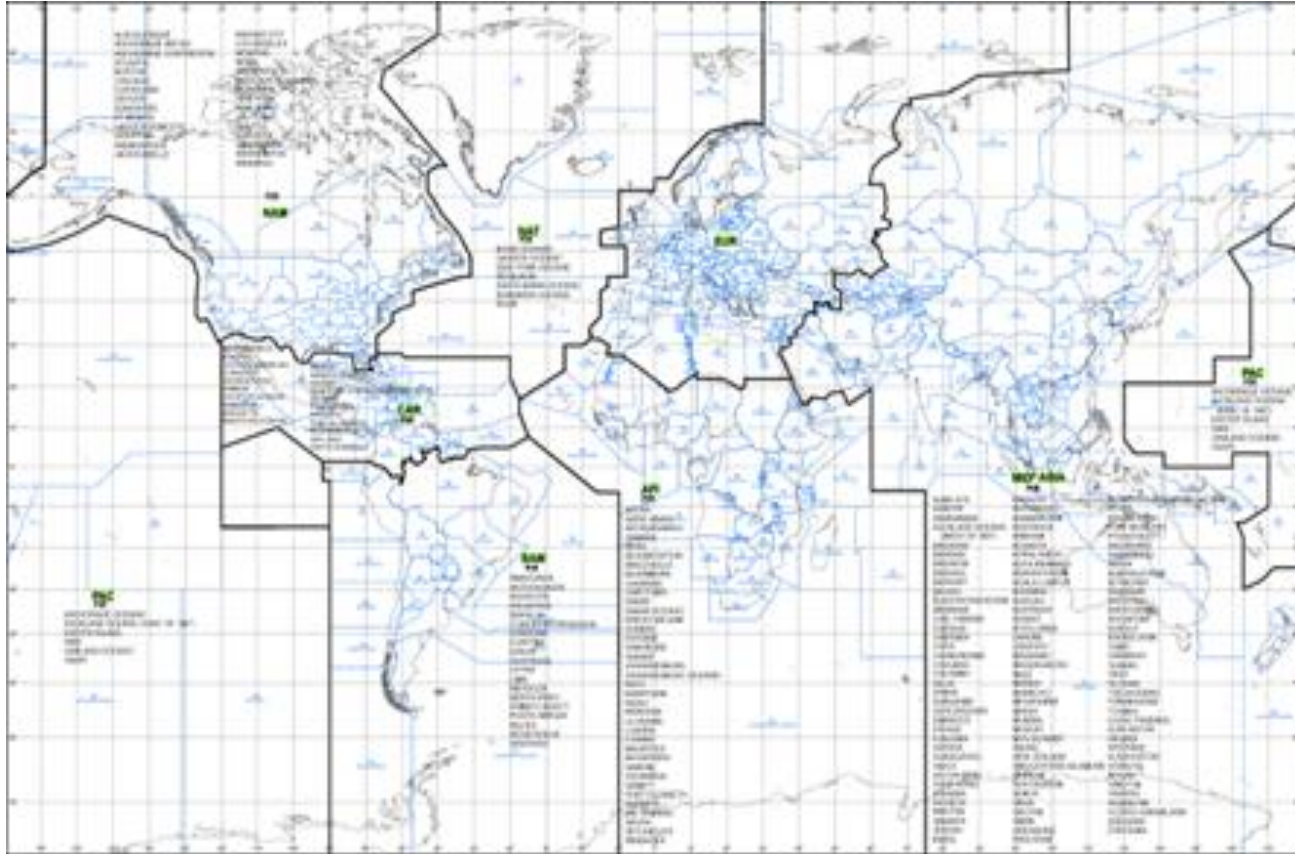
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### ICAO's fundamental role

- Development of **policies**, standards and recommended practices (**SARPs** – published in **annexes** to the Convention)
  - **Harmonization** of Aeronautical Regulations and Procedures
  - **Compliance audits**
  - **Technical assistance** and **capacity building** for States
- 



# International Civil Aviation Organization (ICAO)



- **Established:** 1974
- **Headquarters:** Montreal, Canada
- **Membership:** 193 Member States
- **Sep (7) Regional Offices – One (1) Regional Sub-Office**

EUR/NAT - Parisg	NACC Region - Mexico
MID Region - Cairo	SAM Region - Lima
WACAF Region - Dakar	APAC Region - Bangkok
ESAF Region - Nairobi	APAC Regional Sub-Office - Beijing

# ICAO Strategic Objectives /Goals

## Until December 31, 2025



A key priority in aviation.



Improving the capacity of the global civil aviation system to respond to air traffic growth.



Effective management of travel and border documents, information sharing and identification of high-risk travelers



Air connectivity as a key enabler of sustainable development



Environmental Protection - Towards Sustainable Aviation and Net Zero Carbon Emissions

## As of 1 January 2026



Every flight is safe and secure



Aviation is environmentally sustainable



**Smooth, accessible and reliable mobility**



**No country left behind**



**A comprehensive legal framework**



**Economic Development**

# Document hierarchy



# Convention de Chicago (CC)

- Two key articles of the CC, pillars of aeronautical development.
- **Section 28 - Air Navigation Facilities and Services and Standard Systems.**
- Establishes the **commitment of States to provide facilities and services** to facilitate international aviation in accordance with the Convention.
- **Article 37 - Adoption of international standards and procedures.**
- Establishes the **commitment of States to ensure the highest possible degree of practical uniformity** in regulations, standards, procedures and organizations.

## Facilitation of Articles 28 and 37

### ICAO facilitates and supports:

- **Article 28 through:**
  - Regional air navigation meetings; and
  - Regional Planning and Implementation Groups.
- **Article 37 through:**
  - Divisional Meetings
  - Sessions of the Air Navigation Commission; and
  - Secretariat Task Groups.

### International Requirements for Facilities and Services in:

- Regional air navigation plans (ANP); and
- Regional supplementary procedures (SUPPs).

### SARPs are provided in the Annexes to the Convention



# MET SARP

1948

## FIRST SARPS RELATING TO THE MET

Adoption of the first aeronautical meteorological standards and recommended practices

Annex 3 to the Chicago Convention "Standards and Recommended Practices – Meteorological Codes" (Article 37 of the Convention)

- Defines the ICAO SARPs (Standards and Recommended Practices) for meteorological services intended to support international air navigation.
- The objective of the Meteorological Service for International Air **Navigation is to contribute to the safety, regularity and efficiency** of international air navigation.
- Contracting States **are encouraged to use the same provisions** in their national regulations.

O A C I

ORGANISATION DE L'AVIATION CIVILE INTERNATIONALE

Standards  
et Pratiques recommandées

CODES MÉTÉOROLOGIQUES

Annexe 3 à la Convention  
relative à l'Aviation civile internationale  
(comprenant les amendements 1 à 21)

*Publié par décision du Conseil*

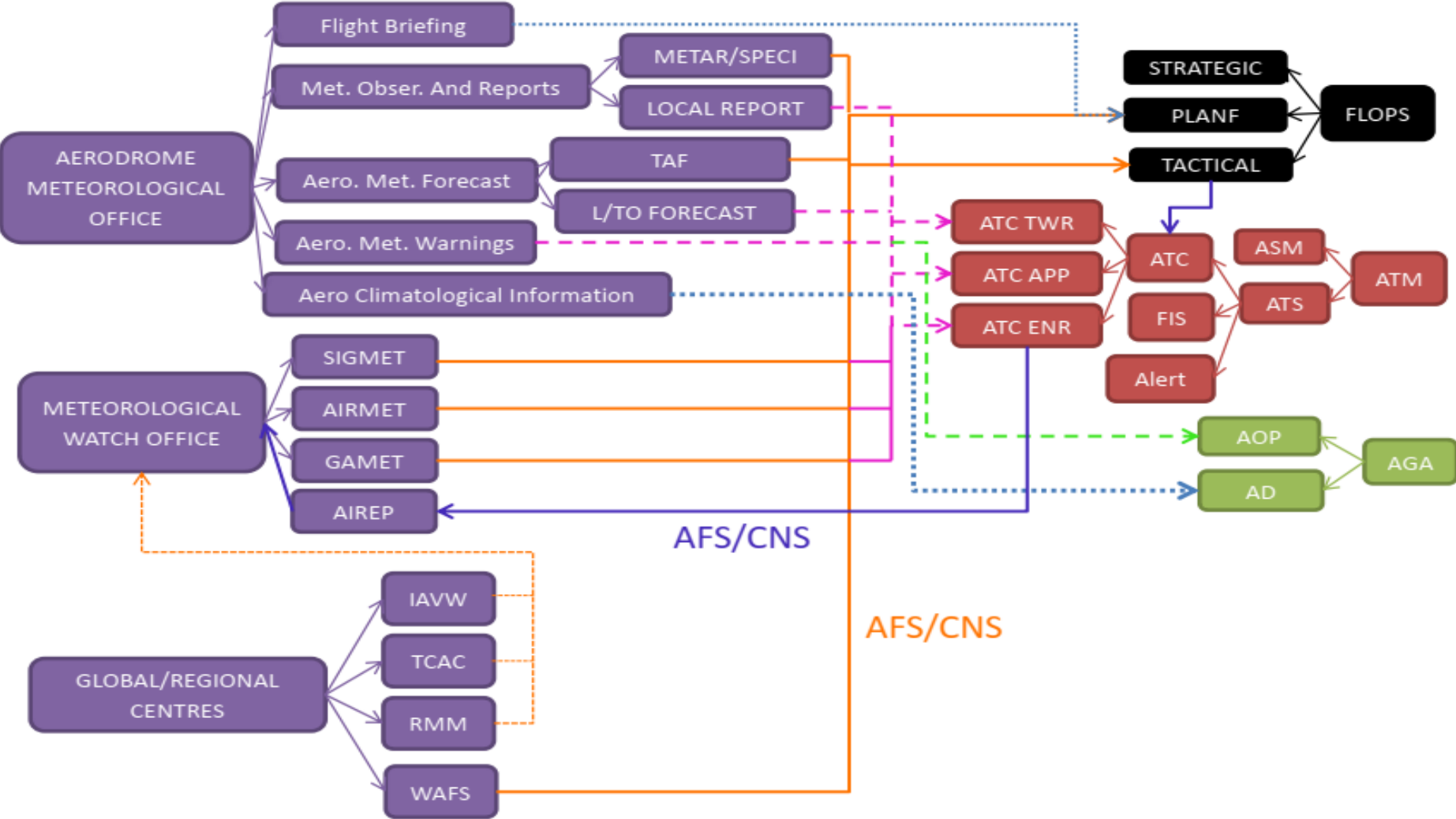
*Septembre 1948*

MONTREAL

CANADA

# Implementation of MET SARPs - Basic Essential MET Services

## MET SUPPORT & END USERS



# Amendments (AMD) to Annex 3

- **1948** – 1st Edition of Annex 3 Standards and Recommended Practices – Meteorological Codes
- ....
- **1975 – AMD 60:** the title of Annex 3 was therefore changed to "Meteorological Services for International Air Navigation".
- ....
- **1975 – AMD 72:** Inclusion of the "provisions relating to the assurance and control of the quality of meteorological information".
- ....
- **2010 – AMD 75:** Inclusion of the provisions relating to the "quality management system".
- ....
- **2018 – AMD 78:** Inclusion of provisions for the representation of information according to the IWXXM model; the qualifications, skills, education and training of meteorological personnel.
- ....
- **2020 AMD 79:** Inclusion of the requirement to exchange OPMETs under the ICAO Meteorological Information Exchange Model (IWXXM).
- ....
- **2024 – AMD 81:** System-Wide Information Management (SWIM) and Information Security.
- ....
- **2025 – AMD 82:** Restructuring of Annex 3 containing SARPs and creation of PNAS-TEPs containing required performance or means of implementation.



ICAO

International Standards  
and Recommended Practices

Annex 3 to the Convention on International Civil Aviation

Meteorological Service  
for International Air Navigation

Twenty-First Edition, August 2025



This edition supersedes, on 27 November 2025, all previous editions of Annex 3.

For information regarding the applicability of the Standards and Recommended Practices, see the Foreword.

INTERNATIONAL CIVIL AVIATION ORGANIZATION

## Situation up to Amendment 80 to Annex 3, 20th Edition

"**Product-centric services**" designed to support specific phases of aviation operations. The provision of services is based on the dissemination of messages via fixed communications (AFTN, AMHS).



### Information provided by designated centres:

- WAFS SIGWX Forecast.
- Upper Temperature/wind data
- Volcanic ash advisory (VAA)
- Tropical cyclone advisory (TCA)
- Space Weather Advisory (SWXA)



### Information at aerodromes:

- METAR/SPECI
- Local Observation Messages
- TAF, TREND
- Aerodrome Warnings
- Wind Shear Warnings/Alerts

### Airspace Information

- Area forecasts in the lower layers
- SIGMET, AIRMET
- Special Air Reports

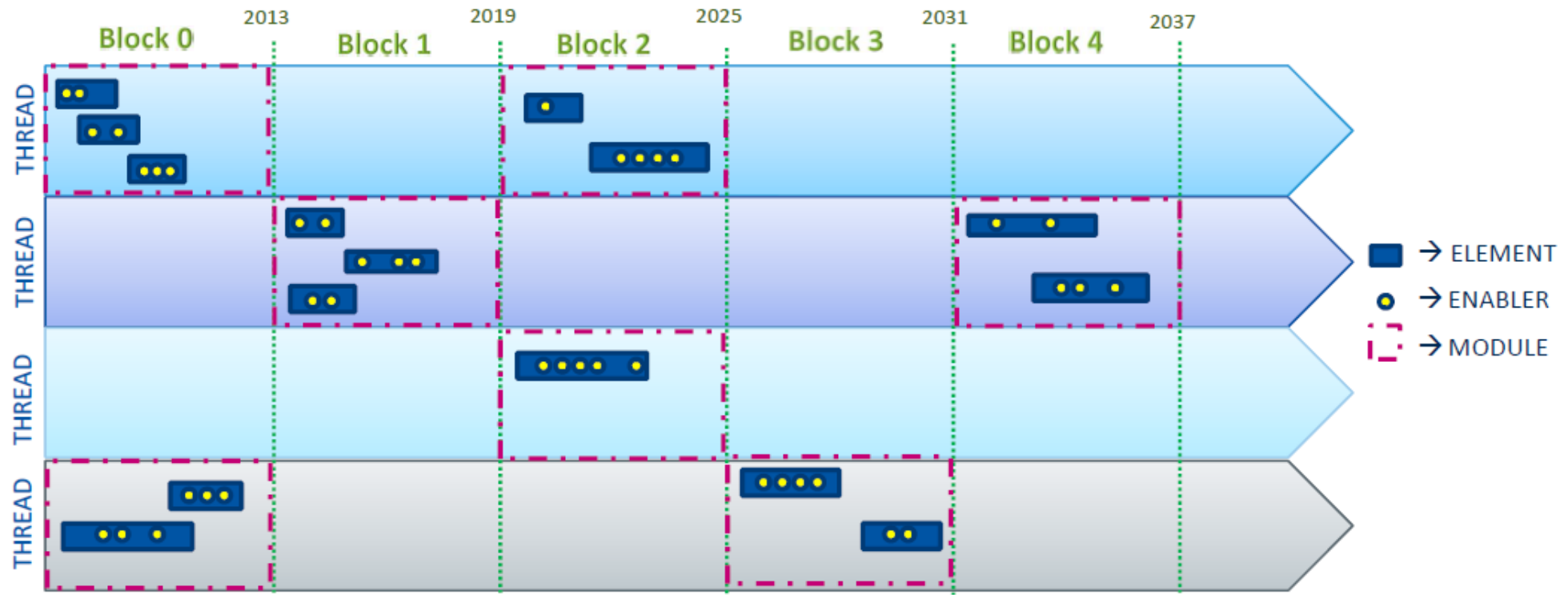
## ASBU modules of the AMET Wire in connection with the 5th edition of the GANP

- **AMET Bloc 0 (–2013)** : Globally, regionally, and locally METs for flexible airspace management, enhanced situational awareness, and trajectory optimization.
- **AMET Bloc 1 (–2019)** : MET information supporting automated decision-making processes, including data translation and TMJ impact conversion.
- **AMET Bloc 2 (–2025)** : Built-in MET information to improve operational decision-making on the ground and in flight, including in the planning and short-term phases.
- **AMET Bloc 3 (–2031)** : Built-in MET information supporting ground and in-flight decision-making for all phases of flight and ATM operations.
- **AMET Bloc 4 (–2037)** : Built-in MET information supporting ground and in-flight decision-making for all phases of flight, including immediate mitigation of weather impacts.

# Aeronautical MET Services – Evolution according to the AMD of the A3 and the GANP

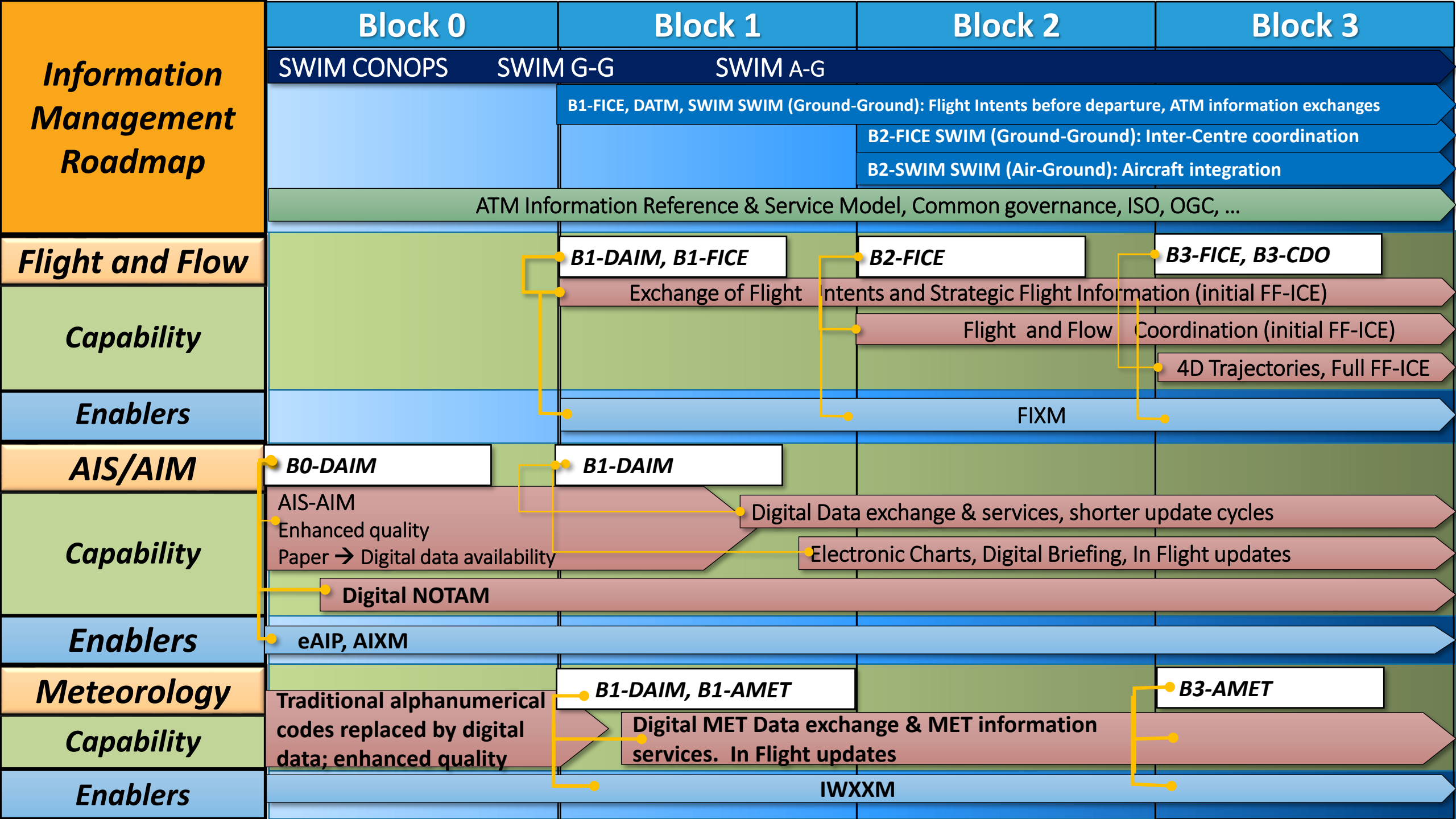
## ASBU Modules/Elements related to the 6th edition of the GANP

From "Module-oriented approach" to "element-oriented approach"



## ASBU Block/Elements related to the 6th edition of the GANP

AMET	/1	/2	/3	/4
B0	Meteorological observations products	Meteorological forecast and warning products	Climatological and historical meteorological products	Dissemination of meteorological products
B1	Meteorological observations information	Meteorological forecast and warning information	Climatological and historical meteorological information	Dissemination of meteorological information
B2	Meteorological observations information	Meteorological forecast and warning information	Climatological and historical meteorological information	Meteorological information service in SWIM
B3	Meteorological observations information	Meteorological forecast and warning information	Climatological and historical meteorological information	Meteorological information service in SWIM
B4	Meteorological observations information	Meteorological forecast and warning information	Climatological and historical meteorological information	Meteorological information service in SWIM



- The Convention on International Civil Aviation (Chicago Convention, 1944) establishes the **legal basis** for international civil aviation (**global legal framework**).
- The Chicago Convention is implemented through the **Standards and Recommended Practices (SARPs) adopted by the Council in the Annexes** to the Convention.
- Annex 3 to the Chicago Convention relates to **Meteorological Service for International Air Navigation**.
- **Annex 3 defines SARPs** for meteorological services in support of international air navigation.
- Amendments 81 and 82, and the "new PANS-MET" were adopted by the Council in order to facilitate the transition from a "**product-oriented**" to an "**information-oriented**" environment, in the framework of the SWIM, and to ensure the evolution of aeronautical meteorological services in line with the GANP.



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Thank You!