



ICAO

INTERNATIONAL CIVIL AVIATION ORGANIZATION

A UN SPECIALIZED AGENCY

RECONNECTING **THE** WORLD



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ENVIRONMENT

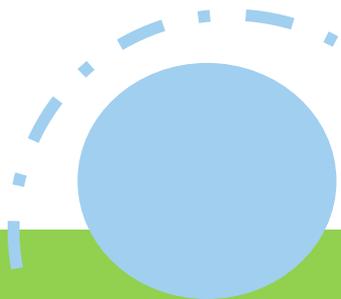


ICAO and Environmental Protection

ICAO-CASSOA-RCAA ENV Workshop

Kigali, Rwanda (23-26 May 2023)

Ms. Chinga Mazhetese
Regional Officer: Environment/ Meteorology
ICAO ESAF Office, Nairobi





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Outline



1. The International Civil Aviation Organisation

2. ICAO ENV

ICAO Policies, SARPs and Guidance Material

3. ICAO ENV Goals

4. The CAEP

5. Q&A





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The International Civil Aviation Organisation

UN specialized Agency

Established by the “Chicago Convention” in 1944

Forum for cooperation in all fields of civil aviation

193 Member States

Standards, policies & guidance for Environmental Protection since the 1960's

- Aircraft Noise, Aircraft Emissions (Local air quality), global climate change



ICAO



Member States (193)



Assembly



Council (36)



Secretariat



- Member States and industry groups develop international civil aviation Standards & Recommended Practices (SARPs) & policies
 - in support of a safe, efficient, secure, economically sustainable and environmentally responsible civil aviation sector.
- Member States have an international obligation to adopt, implement, oversee & enforce SARPs & policies
 - to ensure that local civil aviation regulations & operations conform to global norms and safety standards.
- 12,000+ SARPs defined in 19 ICAO Annexes and supporting Documents.

ICAO'S ANNEXES TO THE CHICAGO CONVENTION

Annex 1: Personnel Licensing

Annex 2: Rules of the Air

Annex 3: Meteorological Service for International Air Navigation

Annex 4: Aeronautical Charts

Annex 5: Units of Measurement to be used in Air and Ground Operations

Annex 6: Operation of Aircraft

Annex 7: Aircraft Nationality and Registration Marks

Annex 8: Airworthiness of Aircraft

Annex 9: Facilitation

Annex 10: Aeronautical Communications

Annex 11: Air Traffic Services

Annex 12: Search and Rescue

Annex 13: Aircraft Accident Investigation

Annex 14: Aerodromes

Annex 15: Aeronautical Information Services

Annex 16: Environmental Protection

Annex 17: Security

Annex 18: The Safe Transport of Dangerous Goods by Air

Annex 19: Safety Management Systems

TCB-3



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President of the Council



Council President
Mr. Salvatore
Sciacchitano

The Council elects its President for a term of three years, and may be re-elected. The duties shall be to:

- Preside over the affairs and activities of the Council
- Convene meetings of the Council, Commission and Committees
- Carry out on behalf of the Council the functions which the Council assigns to him/her
- Serve as representative of the Council



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Subordinate Bodies

Subordinate bodies of Council

Examine technical issues

Form specialized panels

Develop SARPs for adoption by Council

Develop additional guidance materials

Committees may form study/working groups to advise on particular issues



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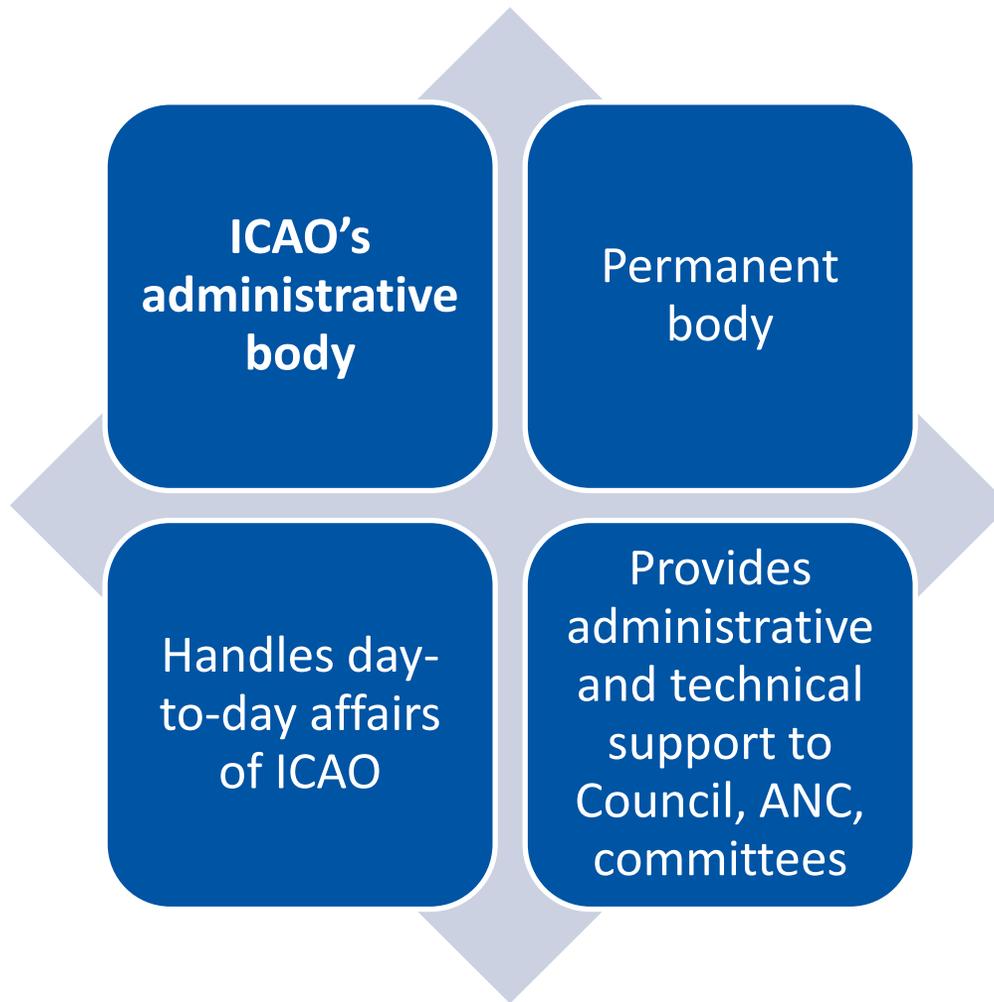
Subordinate Bodies



- Air Navigation Commission (ANC)
- Air Transport Committee (ATC)
- Committee on Joint Support of Air Navigation Services (JSC)
- Finance Committee (FIC)
- Committee on Unlawful Interference (UIC)
- Technical Cooperation Committee (TCC)
- Human Resources Committee (HRC)
- **CAEP**
- TAB



The ICAO Secretariat





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The ICAO Secretariat



ICAO Secretary General

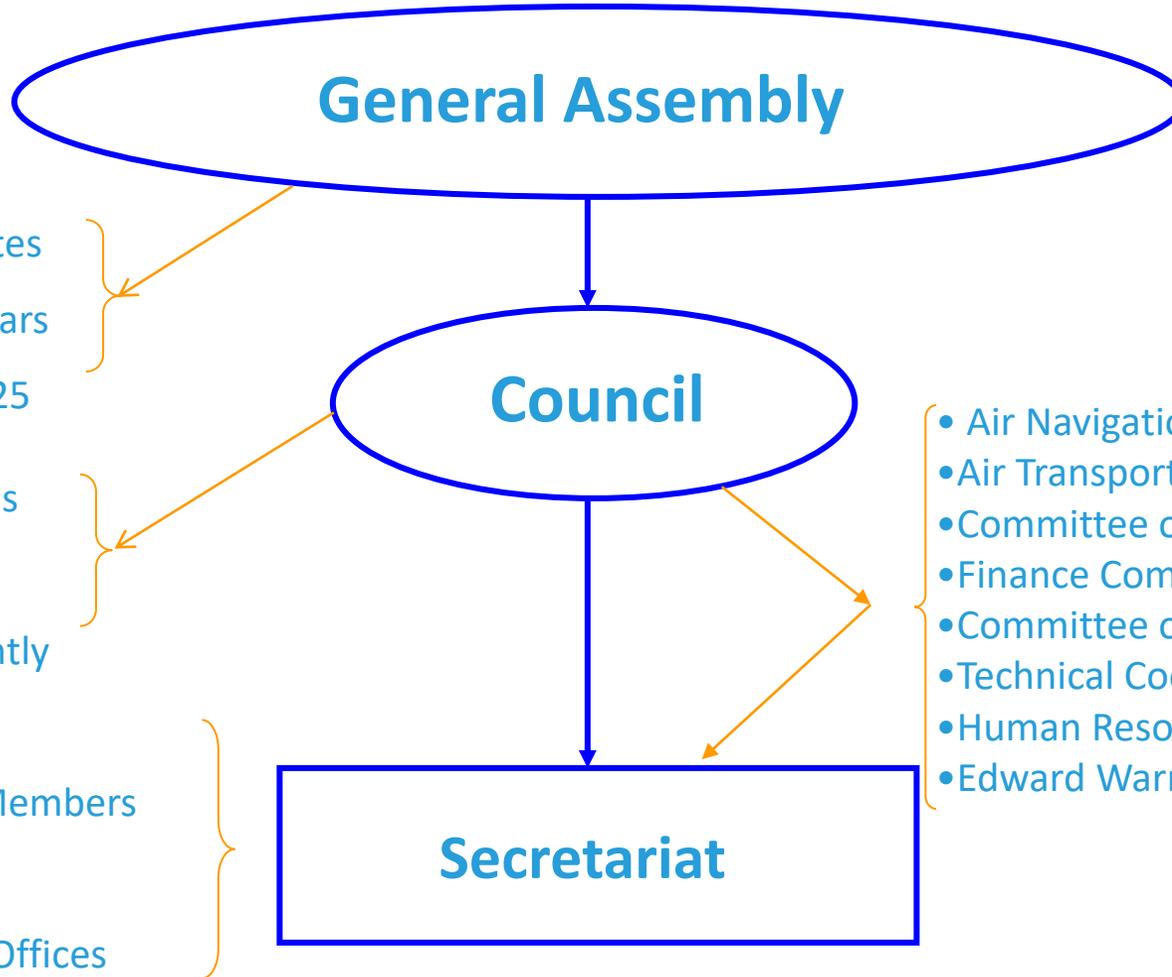
- The Secretary General is head of the Secretariat and chief executive officer responsible for the general direction of work of the Secretariat
- He/she serves as Secretary of the Council, is responsible to the Council as a whole, carries out duties assigned to him/her, and makes periodic reports to the Council
- He/she is appointed by the Council for a three-year term



ICAO Secretary General
Mr. Juan Carlos Salazar



Governance Overview



- 193 Member States
- Meets every 3 years
- Next meeting 2025

- 36 Member States
- Elected by GA
- Seated permanently

- 700 Staff Members (approx.)
- 5 Bureaux
- 7 Regional Offices

- Air Navigation Commission (ANC)
- Air Transport Committee (ATC)
- Committee on Joint Support of Air Navigation Services (JSC)
- Finance Committee (FIC)
- Committee on Unlawful Interference (UIC)
- Technical Cooperation Committee (TCC)
- Human Resources Committee (HRC)
- Edward Warner Award Committee



Standards and Recommended Practices (SARPS)



- Annexes to Chicago Convention
- *Standards*
 - Considered necessary for the safety or facilitation of international aviation
 - States are expected to adopt own regulations based on ICAO's standards
 - However, States often “file differences”
- *Recommended Practices*
 - Considered desirable for safety or facilitation of international aviation



Standards and Recommended Practices (SARPS)

- 19 Annexes to the Convention establish international SARPS for:

Annex 1 – Personnel Licensing

Annex 2 – Rules of the air

Annex 3 – Meteorology

Annex 4 – Aeronautical Charts

Annex 5 – Units of Measure

Annex 6 – Operations of Aircraft

Annex 7 – Registration

Annex 8 - Airworthiness

Annex 9 – Facilitation

Annex 10 – Communications

Annex 11 – Air Traffic

Annex 12 – Search and Rescue

Annex 13 – Accident Investigation

Annex 14 – Aerodromes

Annex 15 – Aeronautical Information Services

Annex 16 – Environmental protection

Annex 17 – Security

Annex 18 – Dangerous Goods

Annex 19 – Safety Management



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The ICAO ENV goals



- ICAO serves as a multilateral platform for cooperation on international aviation environmental protection.
- Over the years, ICAO Member States have agreed to concentrate their aviation environmental collaboration on three core areas:
 - Climate change and aviation emissions
 - Aircraft noise
 - Local air quality



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Committee on Aviation Environmental Protection (CAEP)



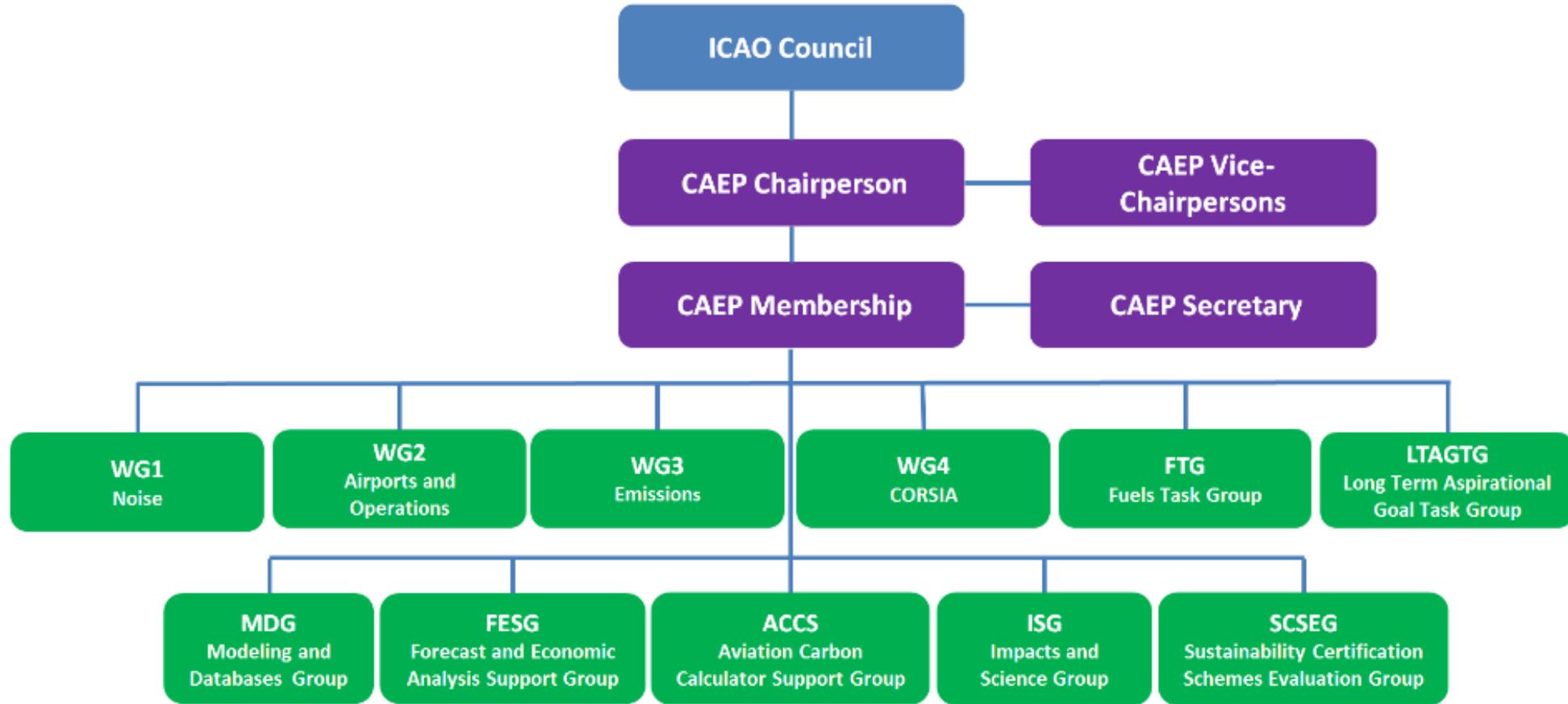
- established in 1983.
- assists the Council in formulating new policies and adopting new Standards and Recommended Practices (SARPs) related to:
 - aircraft noise and emissions, and more generally to aviation environmental impact.
- scope of activities encompasses **noise, local air quality (LAQ) and the basket of measures** for reducing international aviation CO₂ emissions,
 - including aircraft technology, operational improvement, sustainable aviation fuels and market-based measures (CORSIA).
- The Council reviews and adopts CAEP recommendations,
 - including amendments to the SARPs, and in turn reports to the ICAO Assembly



CAEP Structure



CAEP Structure (Leading up to CAEP/13 in 2025)





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CAEP Members and Observers



- As of May 2023, CAEP is composed of
 - 31 Members from all regions of the world and
 - 22 Observers.
- More than 1200 internationally-renowned experts are involved in CAEP activities and working groups.
- From Africa (Members):
 - Cote d'Ivoire
 - Egypt
 - Kenya
 - Nigeria
 - South Africa
- No Observer States from Africa
- AFCAC is one of the Regional State Organisations



ICAO Policy



ICAO Standards and Recommended Practices (SARPs)



ICAO Guidance



Chicago Convention

ICAO Assembly Resolutions

A41-20, A41-21 and A41-22:

Consolidated statement of continuing ICAO policies and practices related to environmental protection

Annex 16 - Environmental Protection:

Volume I, Aircraft Noise

Volume II, Aircraft Engine Emissions

Volume III, Aeroplane CO₂ Emissions

Volume IV, CORSIA

Various guidance on noise, LAQ and climate change, e.g.:

Environmental Assessment of Proposed ATM Operational Changes (Doc 10031)

Environmental Technical Manual Volumes I- IV (Doc 9501 Vol IV)



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QUESTIONS??



Thank You