



# Assistance for Action

## Aviation and Climate Change Seminar

23 - 24 October 2012

ICAO Headquarters, Montréal, Canada



# ICAO CAEP – Guidance to States

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# Background

- Committee on Aviation Environmental Protection
- 1983
- Technical Committee of the ICAO Council
  - Recommends new policies and new Standards on aircraft noise and aircraft engine emissions
- Currently consists of 24 Members, 16 Observers and more than 400 nominated technical experts

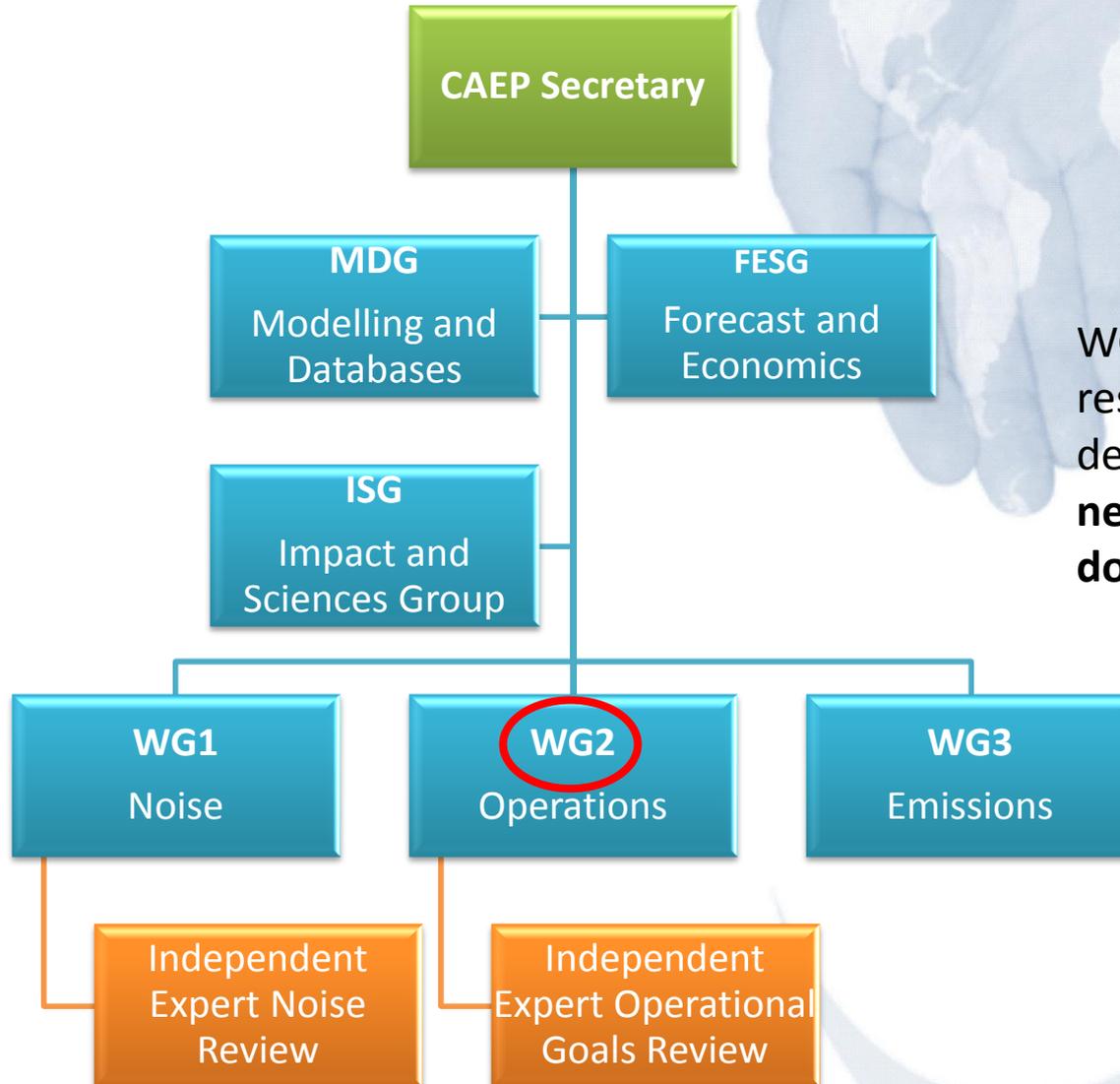


# Terms of Reference

1. To set technically feasible, economically reasonable and environmentally beneficial Standards ;
2. To achieve developments in other associated fields;
3. To monitor international and national programmes of research on aircraft noise and gaseous emissions; and
4. To ensure interdependence of control measures taken.



# Structure



WG2 is responsible for the development of **new guidance documentation**



# CAEP

- **Balanced geographical representation:** active contribution of experts from all continents to better tackle global issues
- **Forum of exchange:** facilitation of knowledge sharing
- **Dissemination of information:** publication of international reference documentation for the public
- **Scientific and technical expertise:** development of trends and tools





# Membership

## Individual States currently represented in CAEP:

Argentina

Australia

Brazil

Canada

China

Egypt

France

Germany

Greece\*

India

Indonesia\*

Italy

Japan

Netherlands

New Zealand\*

Nigeria

Norway\*

Poland

Russian Fed.

Singapore

South Africa

Spain

Sweden

Switzerland

Tunisia

Turkey\*

Ukraine

UK

USA

\*Observers



# Forum of exchange of information

- CAEP is a platform gathering expertise, skills and knowledge from all over the world
  - **Working Groups**
  - CAEP appoints **independent experts** in charge of providing the best available knowledge on specific topics (Fuel Burn Review, NOx Review, Noise Review)
  - **Action Plans:** support provided by CAEP for the elaboration of the training guidance and validation of the website
  - **Voluntary Measures:** submissions regarding voluntary activities against global warming



# CAEP produces:

- **Standards And Recommended Practices (SARPs)**
- **Noise and Emissions Trends**
  - States benefit from the models review and approval
- **Assessment Tools**
  - States have access to the tools developed
- **Guidance documentation**



# Guidance documentation

- CAEP assists States in developing guidance documentation.
- Worldwide experts cooperate to develop and keep up-to-date accurate, reliable and relevant international reference documentation.





# Documentation produced

Policy on Noise Charges (Doc 9082)

Computing Noise Contours Around Airports (Cir 205)

Airport Planning Manual Part II (Doc 9184)

Operational Opportunities to Minimize Fuel Use and Reduce Emissions (Cir 303)

Balanced Approach (Doc 9829)

Aircraft Emissions Charges Related to LAQ (Doc 9884)

Independent Expert NOx Review (Doc 9887)

Use of Emissions Trading for Aviation (Doc 9885)

Effects of NADP on Noise and Emissions (Cir 317)

Policy on Emissions Charges (Doc 9082)

Computing Noise Contours Around Airports (Doc 9911)

2<sup>nd</sup> Independent Expert NOx Review (Doc 9953)

Independent Expert Fuel Burn Review (Doc 9963)

Independent Expert Noise Review (Doc 9943)

Noise Abatement Procedures (Doc 9888)

Voluntary Emissions Trading for Aviation (Doc 9950)

Airport Air Quality Manual (Doc 9889)

Emissions Trading and Offsets for LAQ (Doc 9948)

Guidance for States Action Plans (Doc 9988)

Linking "Open" Emissions Trading Systems (Doc 9949)

Offsetting Emissions from the Aviation Sector (Doc 9951)

EMS Practices in the Aviation sector (Doc 9968)

1980

2004

2008

2010

2011



Noise



Emissions



Noise + Emissions



# CAEP/10 new guidance documents

- Environmental Assessment Guidance for Proposed ATM Operational Changes
- Update of Circular 303 - Operational Opportunities to Minimize Fuel Use and Reduce Emissions



# In summary

- CAEP assists States in many different ways:
  - Development of SARPs
  - Development of trends
  - Assessment of impacts and environmental benefits
  - Forum of exchange of good practice
  - Dissemination of information
- With the increasing involvement of experts from all over the world, ICAO is able to fulfill his commitments in terms of assisting its States in reducing the impact of civil aviation on noise, climate change and local air quality.