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DIRECTORS GENERAL OF CIVIL AVIATION-MIDDLE EAST REGION

**Third Meeting (DGCA-MID/3)
(Doha, Qatar, 27-29 April 2015)**

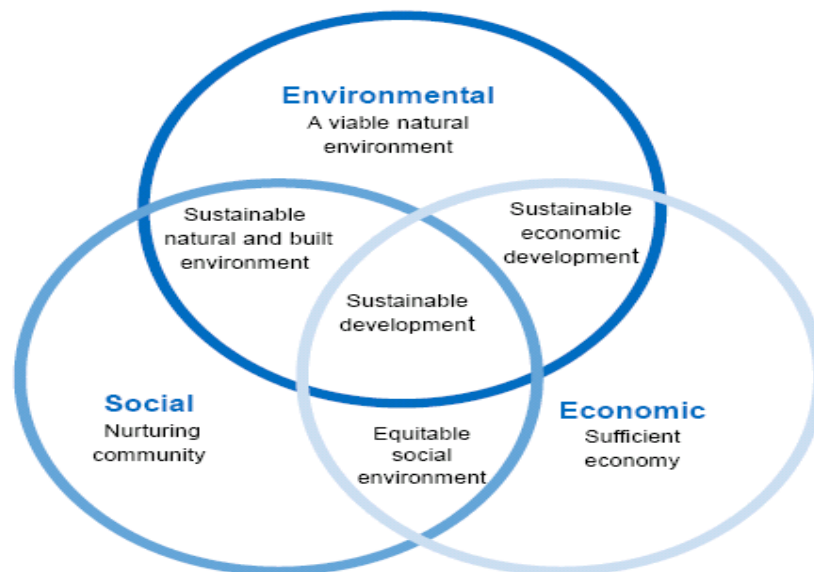
Agenda Item 7: Environmental Issues

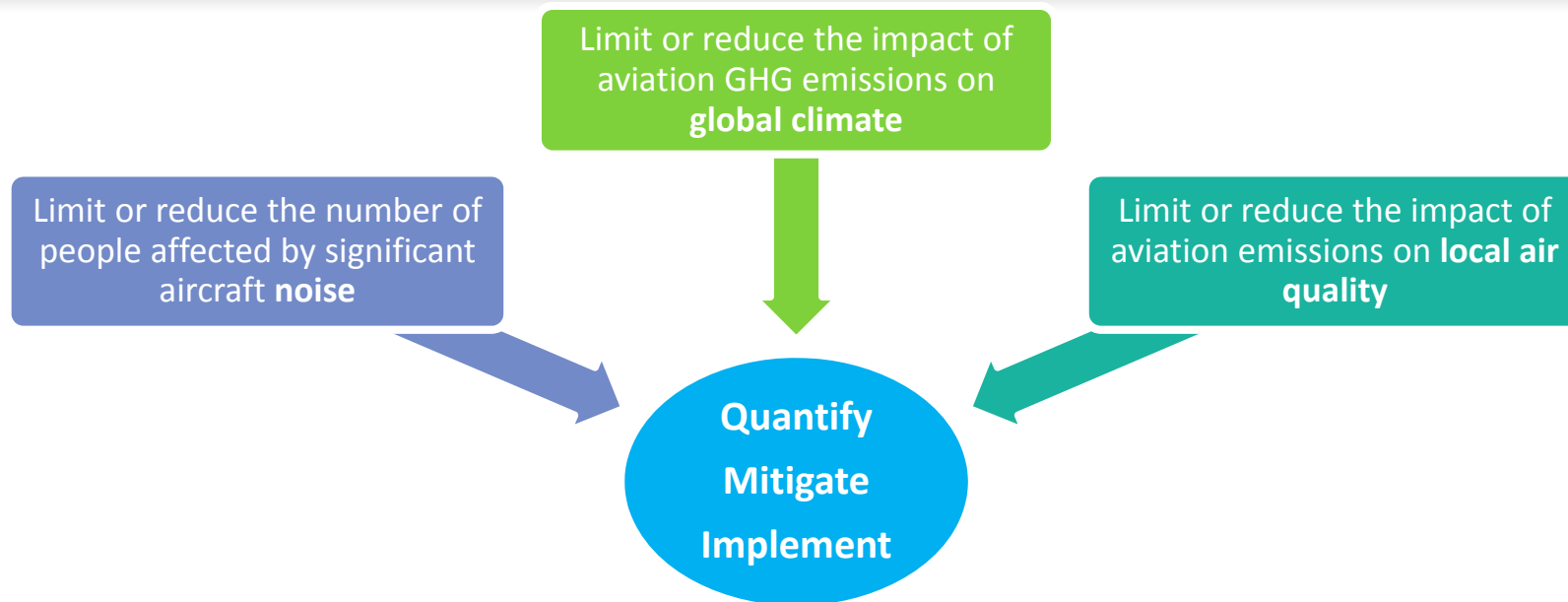


The three dimensions of sustainability

United Nations: "Sustainable development meets the needs of the present without compromising the ability of future generations to meet their own needs."

Triple Bottom Line: In business, one approach to sustainability is focusing on the impact of decisions on the environment and the community in addition to profit (traditional single bottom line). The diagram illustrates this idea.

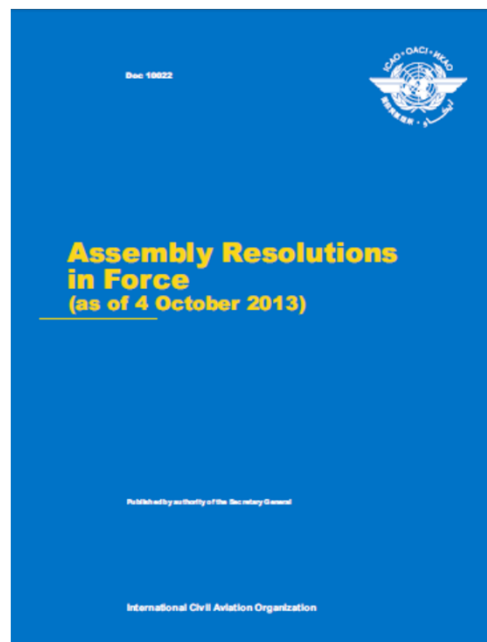




Minimize the adverse effect of global civil aviation on the environment



ICAO Policies on Environment



- **A38-17:** Consolidated statement of continuing ICAO policies and practices related to environmental protection – General provisions, noise and local air quality
- **A38-18:** Consolidated statement of continuing ICAO policies and practices related to environmental protection – Climate change



ICAO SARPs (Standards And Recommended Practices) and Guidance

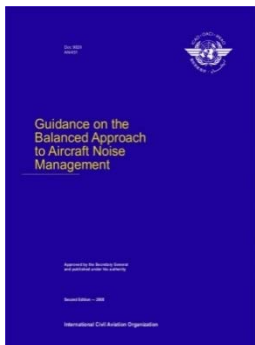


ICAO SARPs

Annex 16 – Volume I, Aircraft Noise

Annex 16 – Volume II, Aircraft Engine Emissions

Annex 16 – Volume III, Aircraft CO₂ Emissions
(under development)



ICAO Guidance (examples)

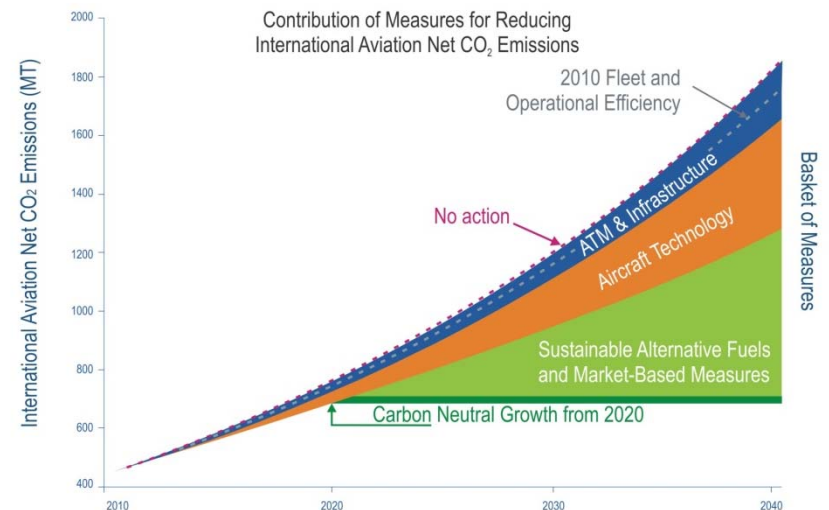
NOISE – *Guidance on the Balanced Approach to Aircraft Noise Management (Doc 9829)*

EMISSIONS – *Airport Air Quality Manual (Doc 9889)*



Basket of Measures to reduce aviation emissions

- Aircraft-related technology development
- Improved air traffic management and infrastructure use
- More efficient operations
- Market-based measures (MBMs)
- Sustainable alternative Fuels





States' Action Plans to reduce aviation CO₂ emissions

- **For States**

Opportunity to identify and communicate measures to address CO₂ emissions from international aviation as well as any assistance needs to implement the measures



- **For ICAO**

Assess the global progress towards the achievement of aspirational goals and address specific assistance needs of States.



States' Action Plans – ICAO Capacity Building Programme

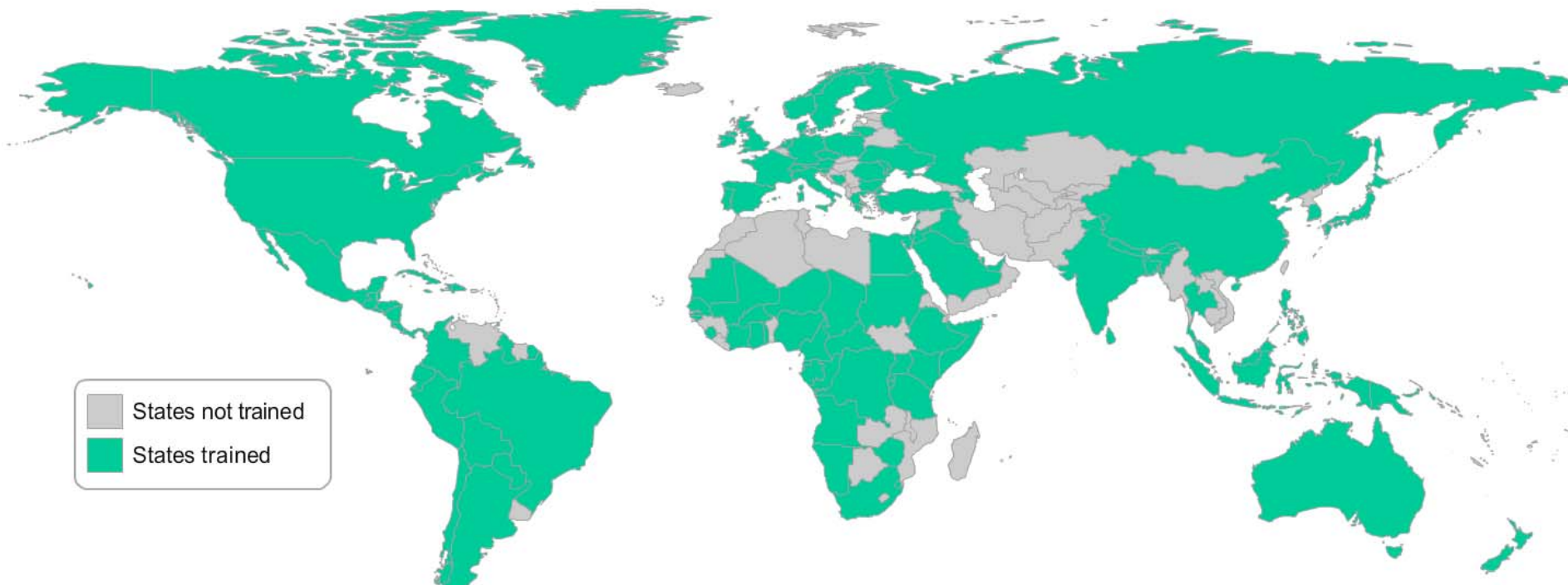
- **ICAO Guidance Document on the Development of States' Action Plans (Doc 9988)**
- **ICAO Interactive Web-Interface – APER website**
- **Hands-on Training seminars in all ICAO Regions**
- **Over 200 Teleconferences and Meetings with States' Focal Points**
- **Support provided by ICAO Regional Offices and Technical Cooperation Bureau**



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114 States trained up to March 2015





77 States, representing around 83% international RTK, submitted an Action Plan as of March 2015



- 77 States submitted an Action Plan
- Remaining States

Data obtained from Economic Analysis and Policy Section ([EAP](#))
Annual Report 2009



MID Environment Seminar March 2014

- 8 States from MID Region participated
- Presentations from 4 States from the region on planned updates to their Action Plans – sharing information and best practices
 - Wide range of measures being explored
 - States working to quantify their expected results and re-submit by June 2015



States' Action Plans - Key Achievements

- 114 States trained, 160 States contacted by phone, 77 States' Action Plans submitted.
- Substantial support and engagement by States in developing Action Plans in a short time
- Many synergies for action generated - Involvement of different actors
- Improvement of the knowledge and experience acquired
- States are invited to update and submit their action plans to ICAO once every three years.



More support needed

However there is a need for:

- Further training of new State Focal Points
- Translation of material, guidance, tools, etc. in all languages
- More assistance to States

Support from States:

- Ensure retention of knowledge within the DGCA's (less HR rotation)
- Voluntary funding earmarked for the Action Plan/Assistance to States initiative



ICAO's work on Assistance

ICAO-EC Partnership

**ICAO UNDP
Partnership
(with GEF financing)**



ICAO's work on Assistance

**ICAO-EC
Partnership**

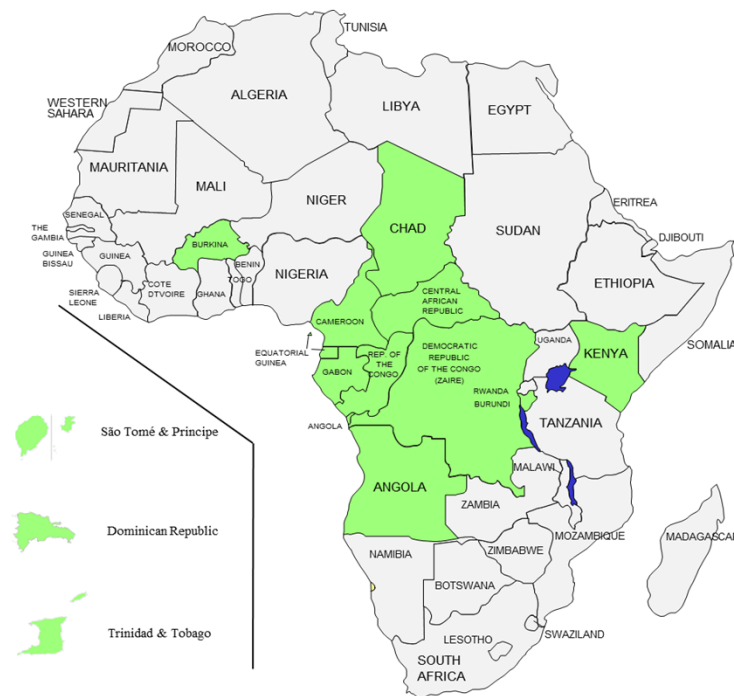


To provide assistance to Selected States in African and Caribbean resulting in the reduction of CO2 emissions



ICAO-EC partnership to assist Member States – 6.5 Million Euros

ICAO African Region	ICAO Caribbean Region
10 ECCAS States	Dominican Republic
Burkina Faso	Trinidad and Tobago
Kenya	





ICAO's work on Assistance

**ICAO UNDP Partnership
(with GEF financing)**



To provide assistance to
developing countries and
Small Islands States –
Jamaica -
resulting in the reduction of
CO₂ emissions



ICAO – UNDP Project with GEF financing

- Objective: To provide assistance to developing countries and Small Islands Developing States (SIDS) in reducing aviation emissions and implementation of a pilot project in Jamaica replicable in other Developing States and SIDs.
- 2 Million dollars assistance project



Next Steps

2015

**End of June 2015 –
submission of new and
updated action plans**

**ICAO EC- Assistance Project
– first and second area of
activities to be initiated**

**ICAO UNDP Assistance
Project to be started**

2016

**Report to the Assembly
the results of the new
submitted and updated
action plans and the
results of the Assistance
projects**

**ICAO EC- Assistance
Project – third area of
activities to be initiated**

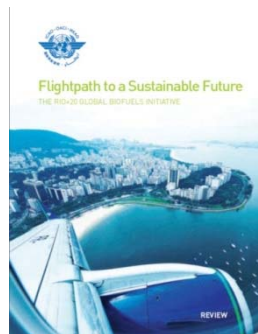
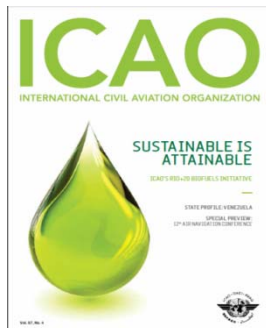
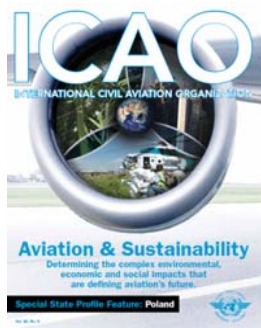


Conclusions

- ICAO priorities on environment are:
 - State action plans and assistance
 - Sustainable alternative fuels for aviation
 - Market-based Measures (MBMs)
 - Global aspirational goals
 - CO₂ Standard expected to be developed by 2016; and
 - work in cooperation with other UN bodies in particular in support to the UNFCCC process
- Climate change will remain the main challenge on the ICAO environmental activities in the upcoming years.



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For more information on our activities, please visit www.icao.int/env



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Thank you