



COP23 Special event

International aviation and maritime transport

***Highlights on the recent actions and decisions taken by the ICAO
to address emissions from international aviation***

Opening presentation

Tetsuya Tanaka

Chief Climate Change, ICAO Secretariat

7 November 2017

Established by the “Chicago Convention” in 1944

UN specialized agency

191 Contracting States

Standards, policies & guidance on environmental protection since 1960’s



Minimize the adverse effect of global civil aviation on the environment:

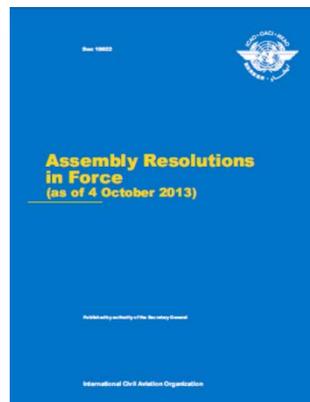
- ➔ limit or reduce the number of people affected by significant aircraft noise;
- ➔ limit or reduce the impact of aviation emissions on local air quality; and
- ➔ limit or reduce the impact of aviation greenhouse gas emissions on the global climate.

Climate change adaptation and resilience

ICAO's environmental work contributes to
14 out of the 17 United Nations SDGs



ICAO Policies



ICAO Assembly Resolutions A39-1, A39-2 and A39-3:

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

ICAO Standards and Recommended Practices



Annex 16 - Environmental Protection:

Volume I, Aircraft Noise

Volume II, Aircraft Engine Emissions

Volume III, Aeroplane CO₂ Emissions - *New*

Volume IV, CORSIA

- *Under Development*

ICAO Guidance



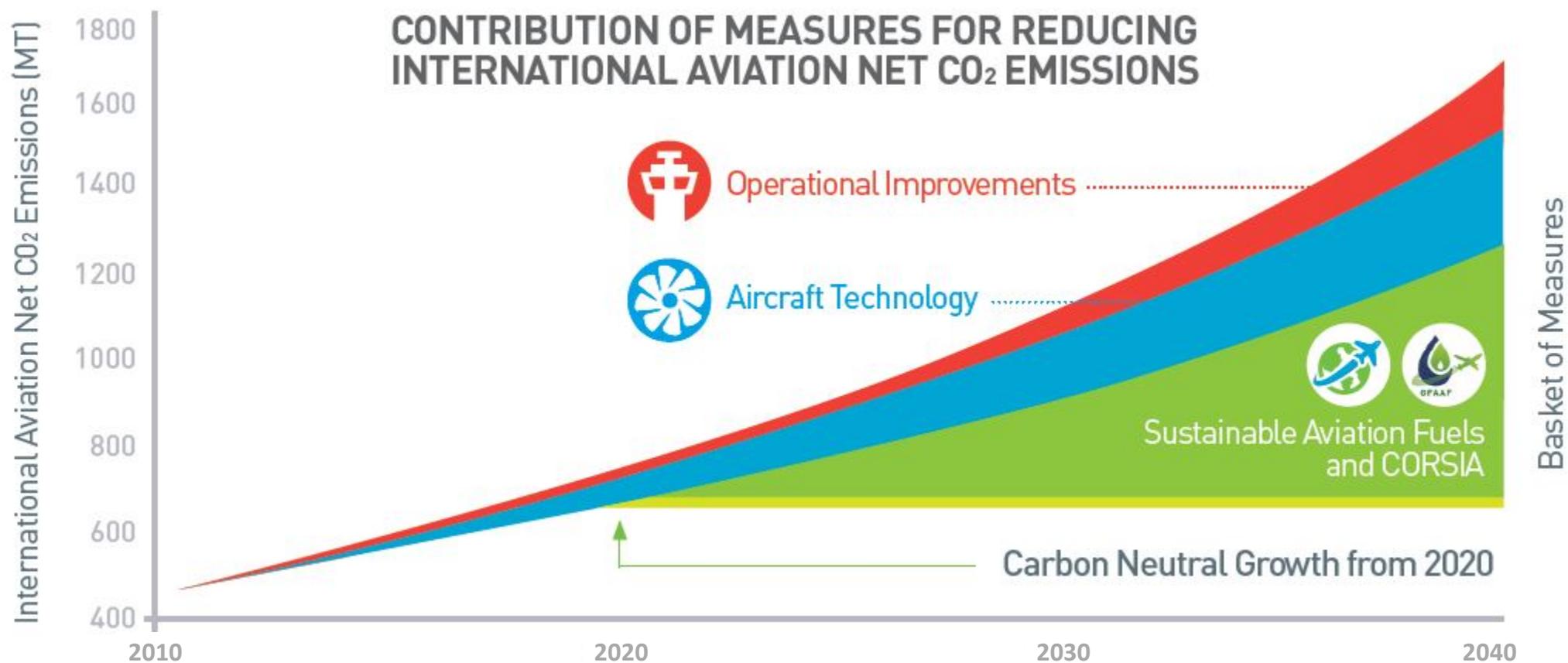
Various guidance on noise, LAQ and climate change, e.g.:

Airport Air Quality Manual (Doc 9889)

Environmental Assessment of Proposed ATM Operational Changes (Doc 10031)

ICAO global aspirational goals

- 2% annual fuel efficiency improvement
- Carbon neutral growth from 2020 onwards



Communication Tool between ICAO and States

- **104 States** with more than 90% of international aviation activity voluntarily submitted action plans
- Assembly encouraged States to submit **complete and robust data** in their action plans
- **Guidance and assistance** for States to develop and update their action plans, e.g.:



- ICAO Doc 9988: Guidance on the development of States' Action Plans
- ICAO tools, including: ICAO Carbon Emissions Calculator, ICAO Fuel Savings Estimation Tool (IFSET), ICAO Environmental Benefits Tool (EBT)
- More than 22 ICAO seminars since 2013 – 1171 experts from 132 States trained
- 2 capacity-building and assistance projects, 5 buddy partnerships

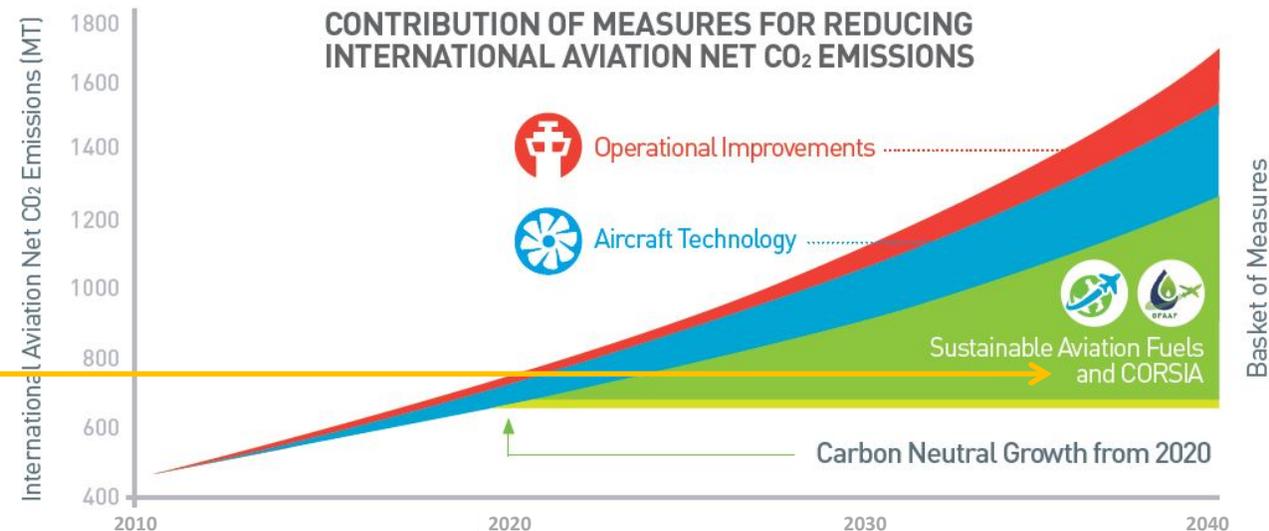
ICAO basket of measures

- Aircraft technology
- Operational improvements
- Sustainable aviation fuels
- Global market-based measure

- First-ever **global CO₂ certification Standard** for new types and in-production aeroplanes
- Environmental benefits from **Aviation System Block Upgrade (ASBU) Strategy**; Update to **Doc 9184, Airport Planning Manual**
- More than **40,000 commercial flights** with sustainable drop-in alternative fuels; **5 certification pathways**; **four bio-jet hub airports**
- **Carbon Offsetting and Reduction Scheme for International Aviation**



CORSIA addresses the remaining “emissions gap” to achieve CNG2020



Development and deployment of sustainable aviation fuels

→ ICAO Conference on Alternative Fuels in Mexico City (11 to 13 October 2017)

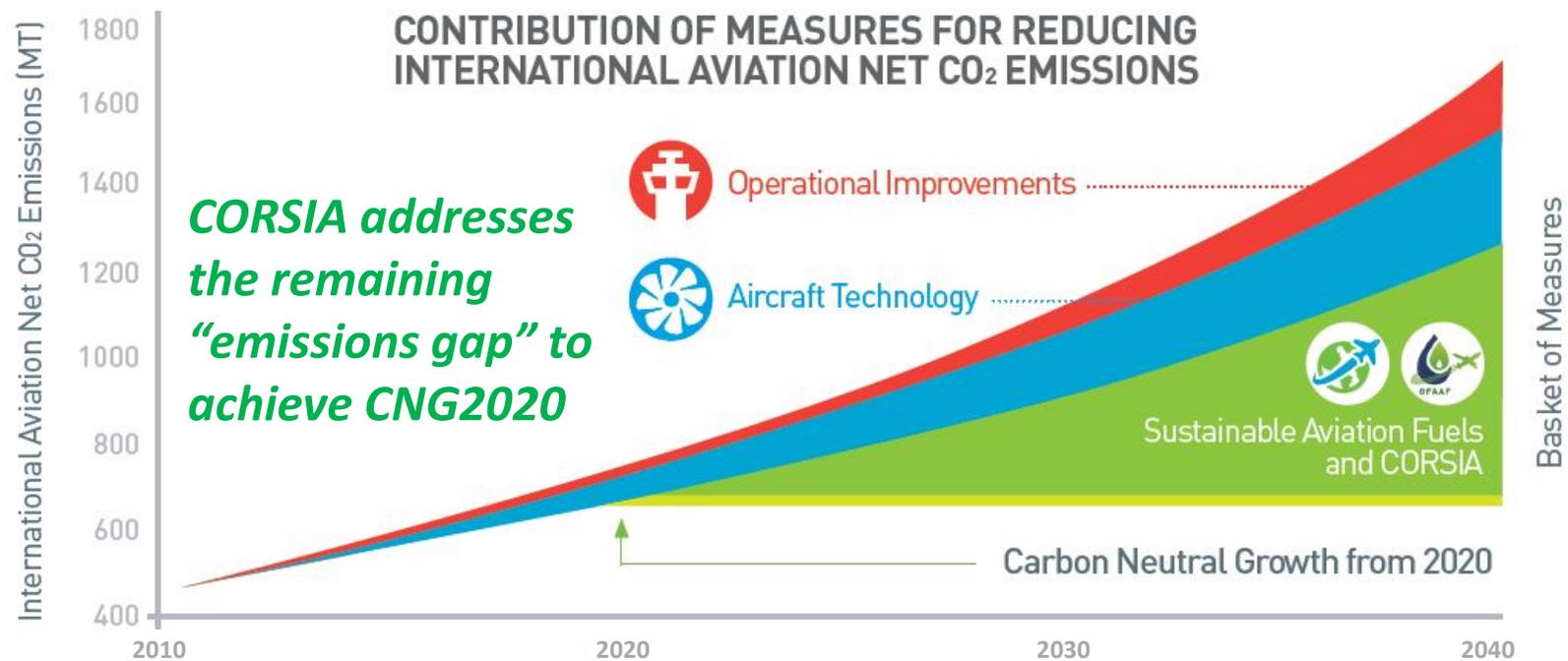
- The Conference endorsed the *2050 ICAO Vision for Sustainable Aviation Fuels*, which called for a significant proportion of conventional aviation fuels (CAF) to be substituted with sustainable aviation fuels (SAF) by 2050
- This vision is intended as a living inspirational path that will be periodically reviewed through a stocktaking process to continuously assess progress on the SAF development and deployment
- CAAF/3 will be held no later than 2025, with a view to updating the 2050 ICAO vision to include a quantified proportion of CAF to be substituted with SAF by 2050



Carbon Offsetting and Reduction Scheme for International Aviation (CORSA)

CORSIA is the first global market-based measure scheme for any industry sector

- One element in the basket of measures to achieve ICAO's global aspirational goal of carbon neutral growth from 2020 (CNG 2020)
- Complementary measure to a broader package in the basket of measures
 - aircraft technology
 - operational improvements
 - sustainable aviation fuels

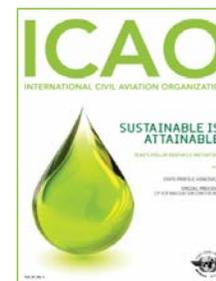
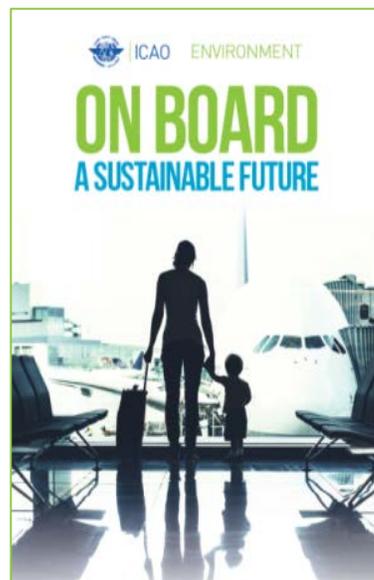
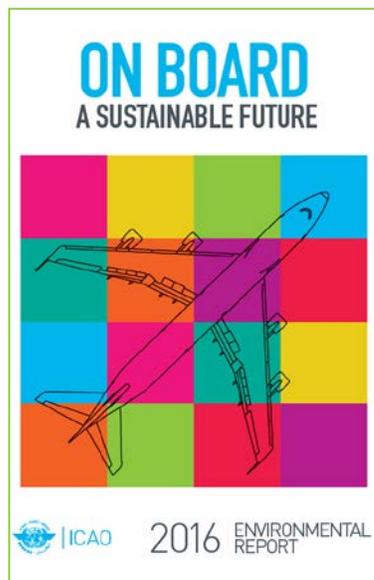




Video - CORSIA implementation



Thank you!



For more information, please visit our website:
<http://www.icao.int/env>