



ICAO

ENVIRONMENT



**ICAO Workshop on State Action Plans on CO<sub>2</sub> reduction activities**

# **Tracking of Aviation Emissions & Fuel Efficiency Improvements/ Market Based Measures**

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**Africa and Middle East**





# Environmental responsibility

## GROWTH LICENCE



This licence permits the growth of aviation in a responsible and sustainable manner, for the benefit of the global economy and citizens around the world.

NAME: GLOBAL AVIATION

D.O.B: 1-JAN-1914

L#: BZ975160

VALID: 31-DEC-2050

LT: 3, B, Z, ✈, 🌍, 💡

AUTH: ICAO, YUL

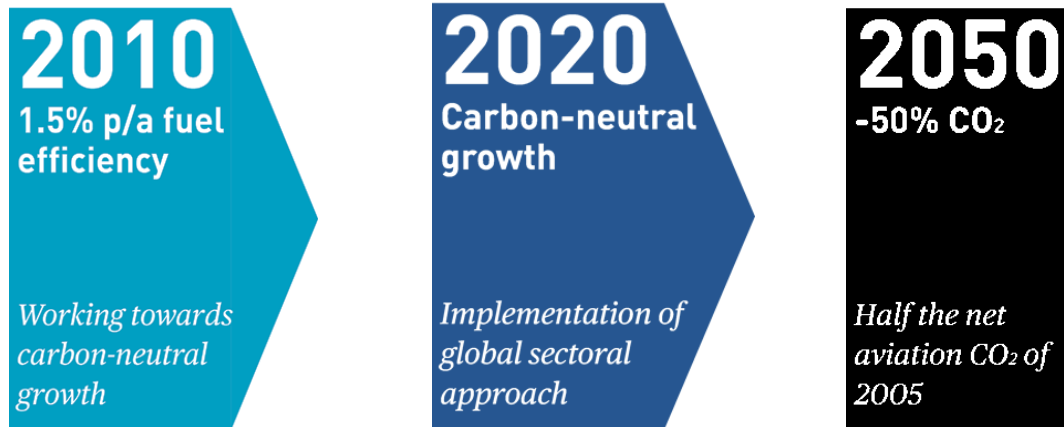
SIG:

*Wilbur Wright*



# What are we doing about it?

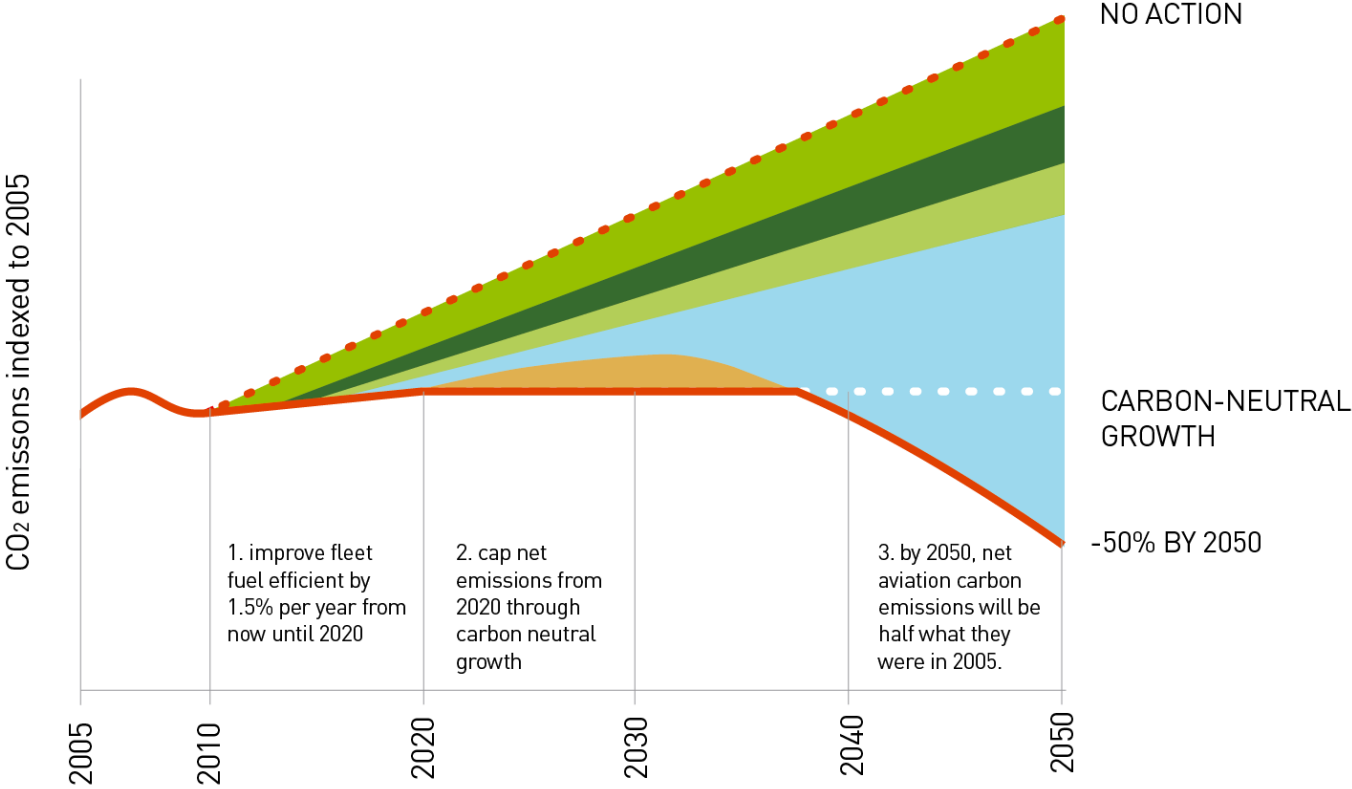
## ➤ We set targets



## ➤ We implement solutions



# OUR CLIMATE ACTION



Known technology, operations and infrastructure measures

Biofuels and additional new-generation technologies

Economic measures

Net emissions trajectory

'No actions' trajectory

# Aviation emissions

**694 million**

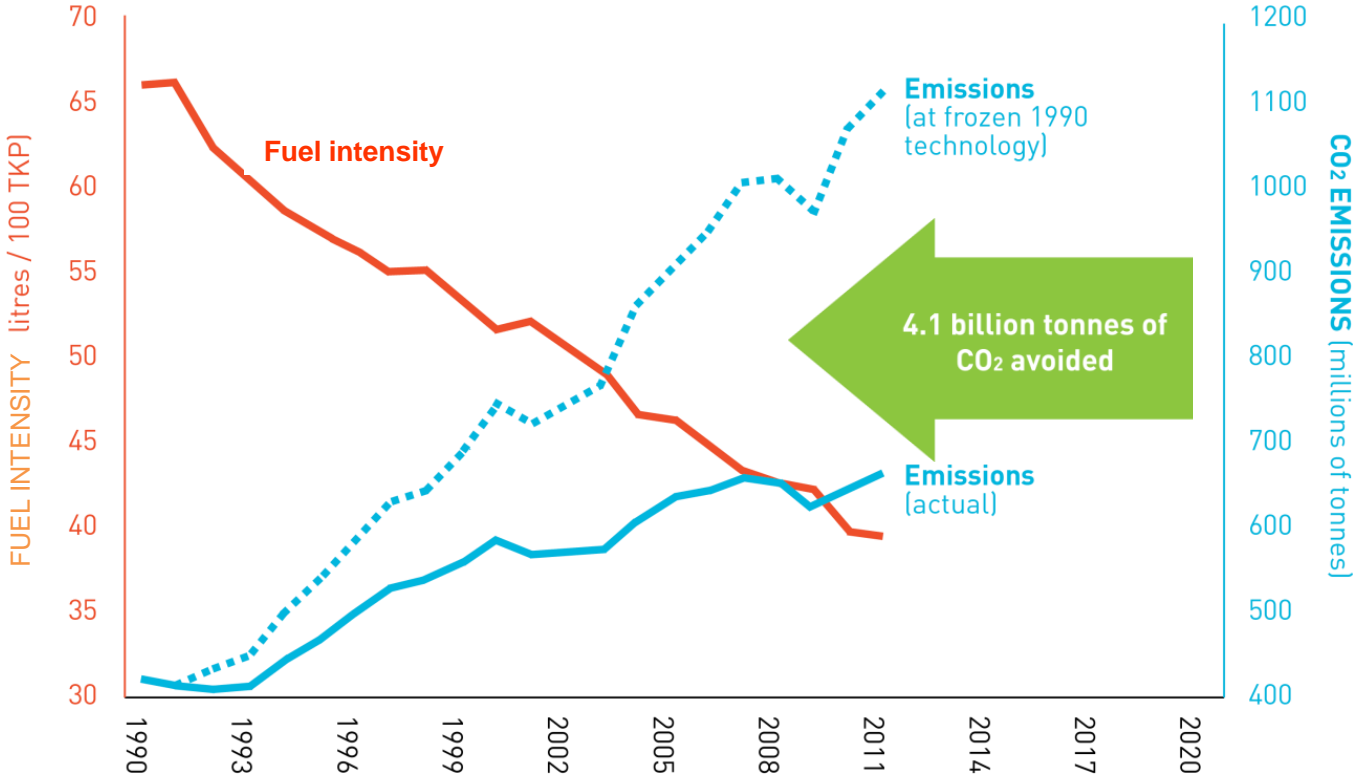
tonnes of CO<sub>2</sub> from air travel in 2013

**2%** of world

CO<sub>2</sub> emissions

**80%**

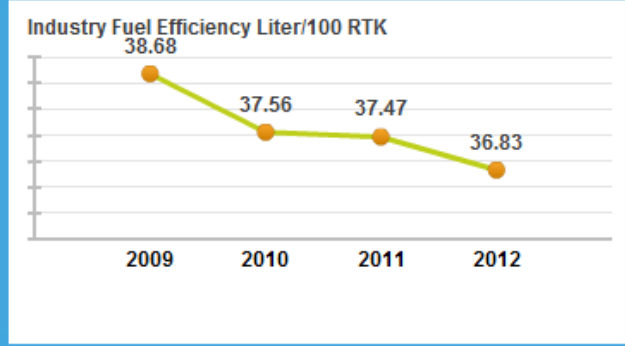
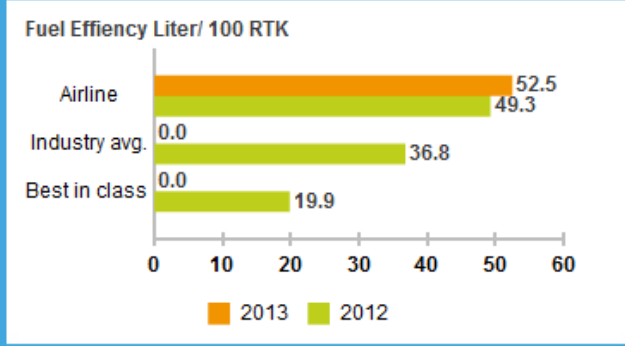
more efficient than first jet aircraft



# Tracking Industry Efficiency Improvements

- FRED was launched in Feb 2013
- Online reporting tool
- Functionalities:
  - Efficiency performance dashboard
  - Fuel measurement protocol - step by step tutorial
  - Fuel measurement methods (addressing airline capabilities)
  - Definitions & support functions
- Strong incentive to report data due to:
  - Blind ranking efficiency benchmark report
  - CO<sub>2</sub> emissions reports
  - Airline efficiency litres/100 RTK
- IATA airline participation = 90% in 2013

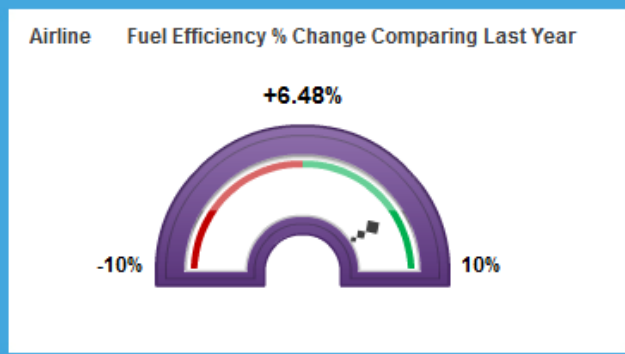
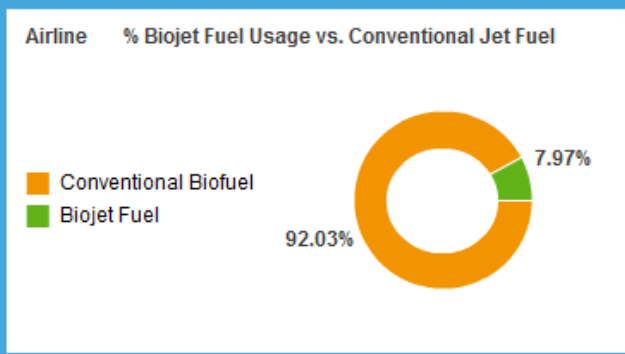




### Fuel Data Submission form

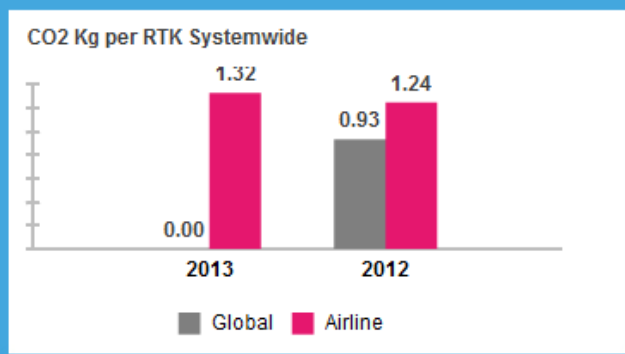
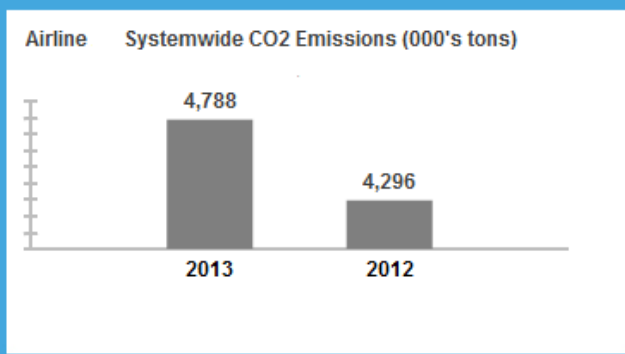
Submit data

### How to Measure & Report Fuel



### Fuel Definition

### Fuel Measurement Methods



### My Efficiency Ranking & CO2 Reports!

## ICAO Resolution 38-18, October 2013

“...voluntary carbon offsetting schemes constitute a practical way to offset CO<sub>2</sub> emissions, and invites States to encourage their operators wishing to take early actions to use carbon offsetting, particularly through the use of credits generated from internationally recognized schemes such as the CDM.”



10



18 March 2015





## Carbon Offsetting: Aviation

- **Passengers (individuals and corporations) offset their share of a flight's emissions by investing in carbon reduction projects that generate carbon credits**
- **Voluntary offset market is worth more than US \$400 million**
- **No information-sharing between airlines and offset providers, difficult to determine the “real balance” of aviation's emissions.**
- **More than 30 IATA airlines have launched their own schemes using different carbon calculators and investing in emission reductions**
- **Voluntary offset programs operating with varying degree of success**




11









# IATA Carbon Offset Program: TAP Screen Shots (1)



TAP PORTUGAL  
A STAR ALLIANCE MEMBER

## Book your flight online



DEUTSCH DUTCH **ENGLISH** ESPAÑOL FRANÇAIS ITALIANO PORTUGUÊS

 SEARCH  
 SELECT  
 PURCHASE  
 CONFIRMATION

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### Itinerary Review

Please review your flight details carefully. Intermediate stops and other important information will be shown if applicable.

Flight	Product	From	To	Departure	Arrival	Cabin	Miles
TP0424 		Lisbon	Paris (CDG)	10 Jun, 07h20	10 Jun, 10h55	Economy	458

Departure from Lisbon on Terminal 1. Arrival at Paris on Terminal 1.

**AIRPORT CODES:**  
CDG - Charles de Gaulle

Please check your flight details at left.

[Know all about TAP Products](#)

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### Offset your Carbon Emissions


Please be aware that your carbon offset contribution isn't mandatory and can not be refunded once it is paid. TAP does not benefit from this Programme.

Total Distance for this itinerary (km): 1471  
CO2 emission for this itinerary (tonnes): 0.189

**Total offset cost 2,59 EUR** per person

Which Project am I helping?

Add the contribution amount to my flights



Help the Environment and reduce the impact from your flights by offsetting your carbon emissions.  
Your money will be donated to U.N. certified emission reduction projects.



# A Global MBM for Aviation



- **Industry believes that a Global MBM under ICAO is the best way to bridge aviation’s “emissions gap” until innovative technology solutions are in place**
  
- **To be effective, the Global MBM must:**
  - Ensure environmental integrity
  - Minimise market and competitive distortion
  - Be administratively simple – especially for small operators
  - Be easy to implement for all States by 2020
  
- **An effective Global MBM should replace other CO<sub>2</sub>-related measures to avoid double counting**





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# Thank you for your attention

