

UNITING AVIATION ON CLIMATE CHANGE

ICAO Colloquium on Aviation and Climate Change

#### A Global Framework for Sustainable Aviation

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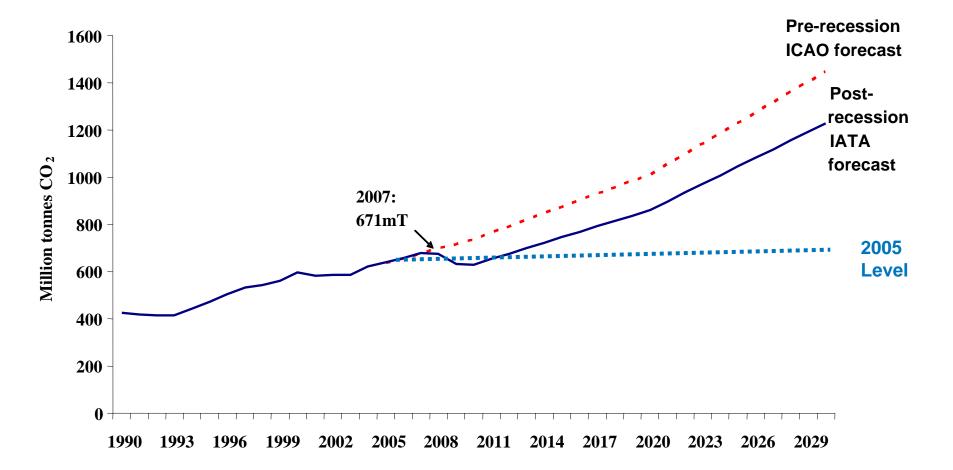
## Aviation is a key driver of social & economic development



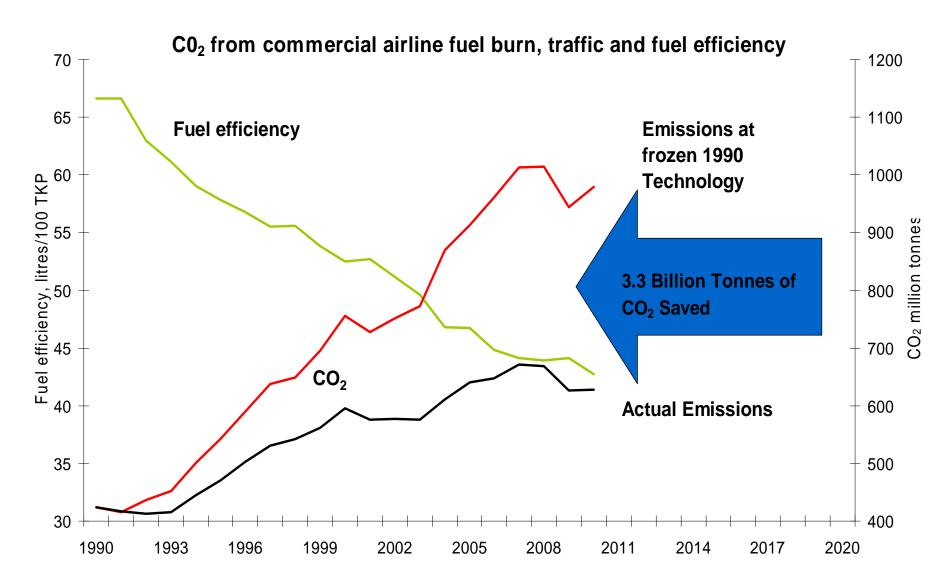
2.2 Billion Passengers
32 Million Jobs
8% of Global GDP (US\$ 3.5 Trillion)
2% of Global Man-made CO2 emissions
Major driver of tourism and trade

#### **Aviation emissions challenge**

CO<sub>2</sub> emissions from the global fuel burn of commercial airlines



#### Industry strong track-record



### **Industry targets**

## 2010

1.5% p/a fuel efficiency

Working towards CNG

2020

CNG from 2020

Implementation of global sectoral approach

### 2050

50% reduction in net CO2 emissions over 2005 levels

#### Industry is united behind these targets

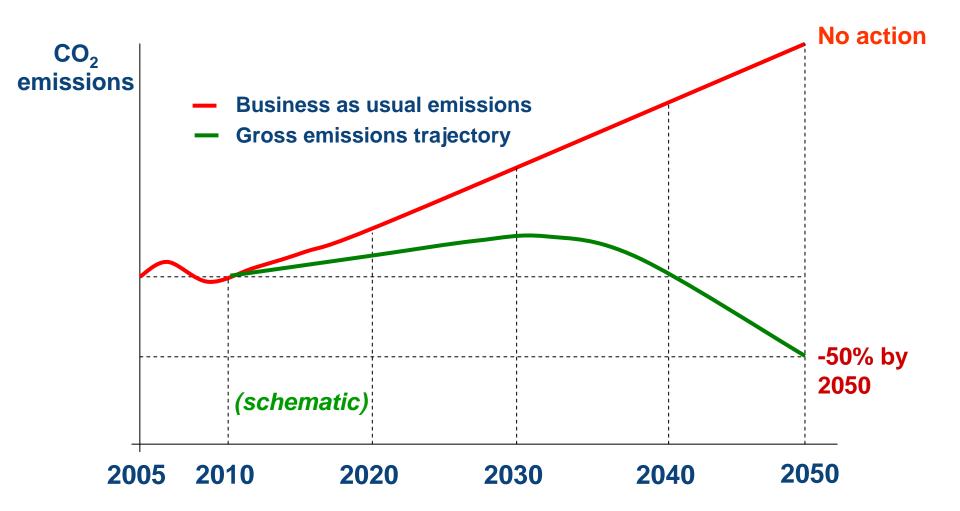
#### Aviation is facing the challenge

Four-Pillar Strategy

- Invest in new technology
- Fly more efficiently
- Build & use efficient infrastructure
- Use effective economic measures

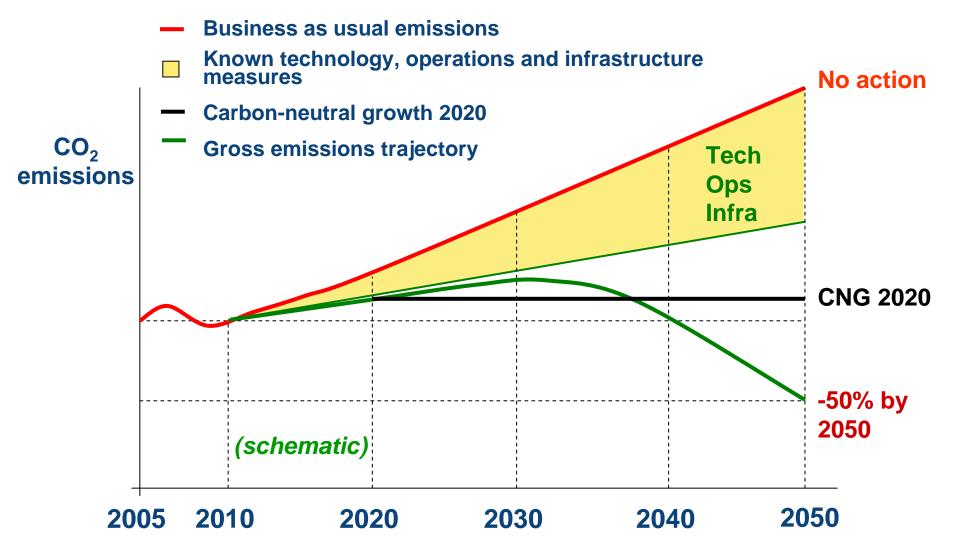


#### **Emissions reduction roadmap**



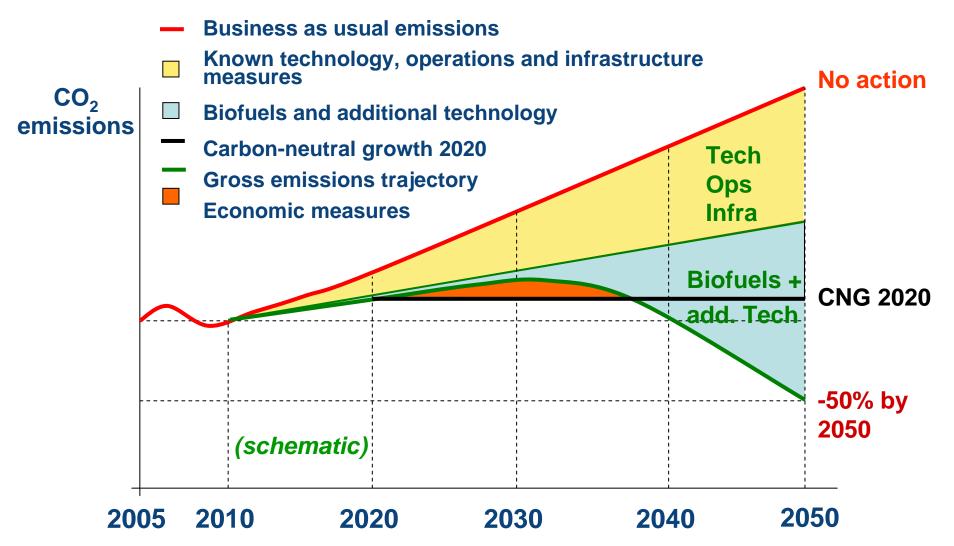


#### **Emissions reduction roadmap**

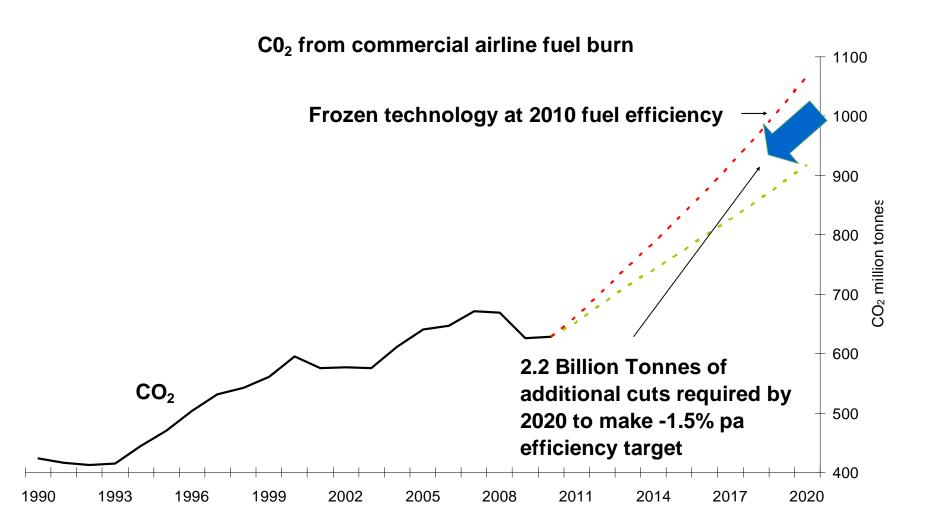




#### **Emissions reduction roadmap**

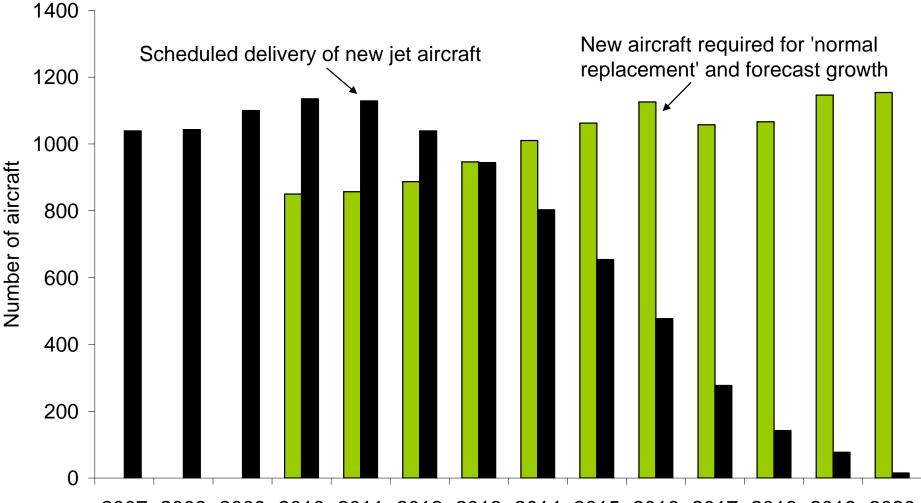


#### Industry 1.5% efficiency target



#### **Industry +1.5% efficiency target** 12,000 new aircraft to buy at cost of **\$1.3 trillion**

New aircraft deliveries



2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020

#### Industry can't do it alone



#### Governments must do their part

Investments in ATM improvements

#### e.g. NextGen, SESAR

Increased R&D funding in technology



#### Governments <u>must</u> do their part

Promote aviation biofuels

R&D funding Pilot projects Fiscal & investment incentives Transport & Energy policy Increased R&D funding



#### **Aviation needs global solutions**



# Need a global facilitating framework.....

- Positive market-based measures
- **R&T investments**
- **Investment incentives**
- Aviation access to global carbon markets
- Access to CDM mechanisms Fleet replacement Biofuels development



#### ....based on sound principles

- ↗ Emissions accounted for at global level
- Emissions addressed through <u>combination</u> of technology, operations, infrastructure and economic measures
- ↗ Emissions accounted for once
- Open architecture access to global carbon markets /mechanisms
- Eventual revenues prioritised for reinvestment in aviation carbon reduction
- **Differing needs of states taken into account**
- Level playing field for operators between markets



ICAO has a major opportunity to take <u>ambitious</u> action at the 37<sup>th</sup> Assembly

#### ...but ICAO is made up of states



#### ....bridges must be built

- Available measures:
- ↗ De minimis rules
- Technology transfer
- ↗ Technical support
- ↗ Financial support
- ↗ Implementation frameworks

CBDR

# Failure at ICAO will lead to governments taking fragmented decisions



## .....which could question the orderly growth of civil aviation



#### Governments and industry must work together through ICAO .....

Targets ÷ **4 Pillar Strategy** + Global Framework



## ...to assure a sound sustainable future for aviation.









