

Aviation and Climate Change

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Aviation - a key part of the global village

- Aviation provides a safe, global mass transit system
- We connect people and bring goods to markets
- ↗ Aviation supports:
 - ↗ US\$3.5 trillion in economic activity





And a small part of climate impact

- ↗ Air traffic grows at 5% per year
 - ↗ Its emissions are growing at 3%
- Aviation contributes 2% to global carbon emissions
 - A Growing to 3% by 2050 (IPCC)
- ↗ Growing footprint is not acceptable





Our vision

- ↗ Is for carbon neutral growth
- Leading to a zero carbon emissions future
- We can only achieve this with crossindustry cooperation
 - ↗ Including government
- ↗ ICAO is best equipped to facilitate this





IATA Four Pillar Strategy

7 Technology

↗ Cleaner airframes, engines and fuels

Aircraft operations

Achieve maximum efficiency & minimum weight

↗ Infrastructure

Improve air & ground traffic management

7 Economic instruments

- ↗ Mitigate emissions





Pillar 1: Technology

- **∧** Aircraft

 - ↗ Medium Term: new aircraft and engines
 - Longer Term: radical new aircraft design
 - IATA target is for 25% lower carbon intensity by 2020 compared to 2005





Pillar 1: Technology

- **∧** Aircraft
 - → Short Term: aircraft upgrades
 - Medium Term: new aircraft and engines
 - > Longer Term: radical new aircraft design
 - IATA target is for 25% lower carbon intensity by 2020 compared to 2005

Alternative fuels

- Available & affordable







Pillar 2: Operations

- In 2007 IATA Green Teams saved airlines and the environment 7 million tonnes CO₂
- ↗ How? For example through
 - Better flight planning
- ↗ Following ICAO Guidance





Pillar 3: Infrastructure

- Efficient Air Traffic Management cuts CO2
- **↗** "IATA 1"

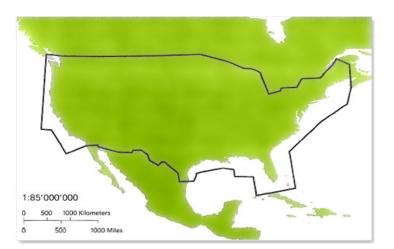
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 per year
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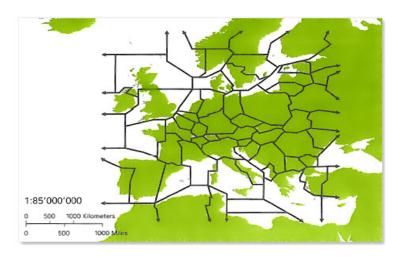




Pillar 3: Infrastructure

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Pillar 4: Economic measures



- ↗ More carrot less stick
- Innovative solutions to accelerate clean technology development and fleet renewal
- Emissions trading could play a role
 If designed properly, through ICAO
- ↗ Carbon offsets should be part of the solution
 - Can deliver real benefits



Pillar 4: Economic measures

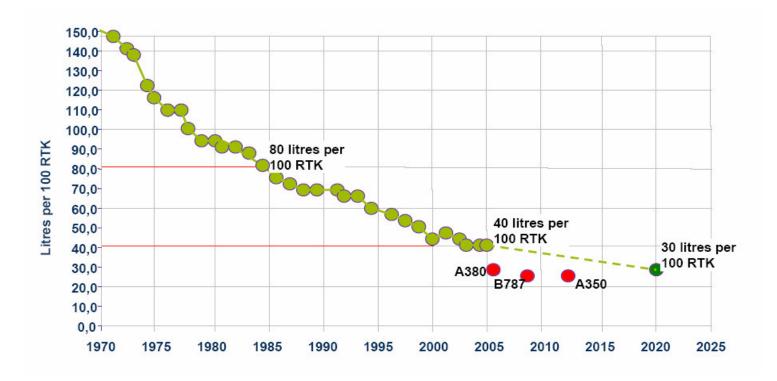


Aviation fuel bill for 2008 could be \$190 bn

- The largest economic incentive possible
- Taxes do not reduce emissions
 - But take away cash that is needed to invest in cleaner aircraft and technologies
- ◄ Emissions trading could play a role
 - If coordinated through ICAO
- ↗ Carbon offsets should be part of the solution
 - Can deliver real benefits
 - > Especially via REDD projects



Continuous improvement





Cooperation is crucial



同前组织。

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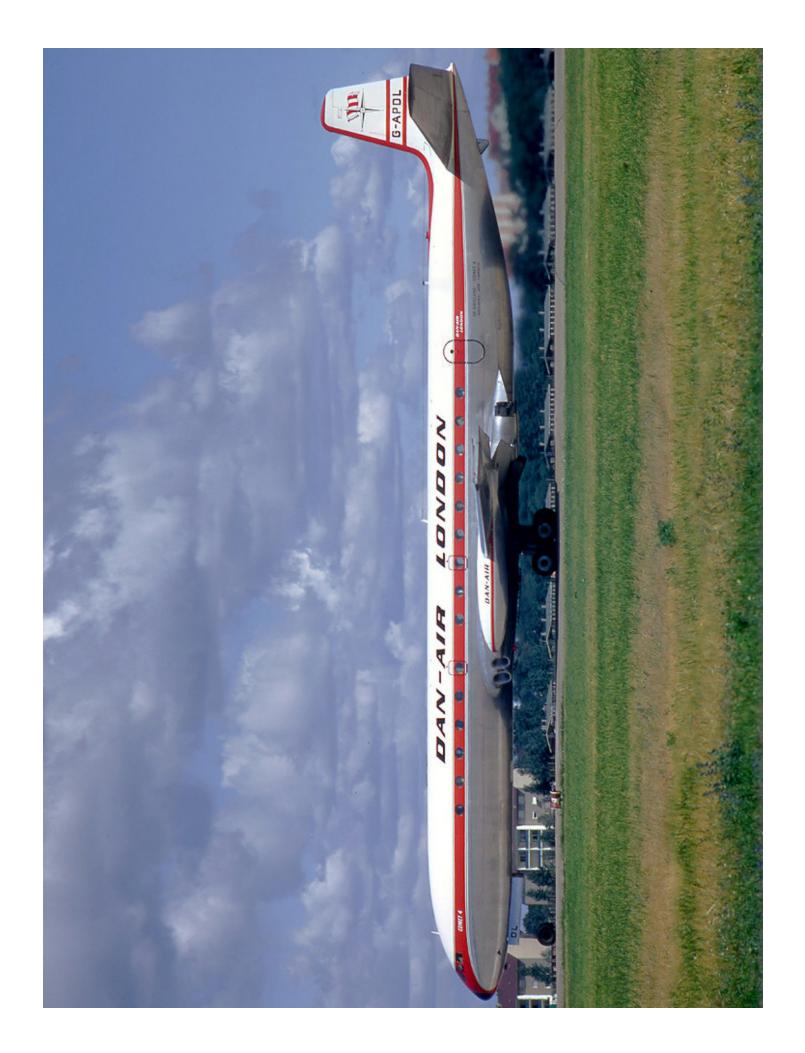


Aircraft & engine makers



Aircraft buyers & operators





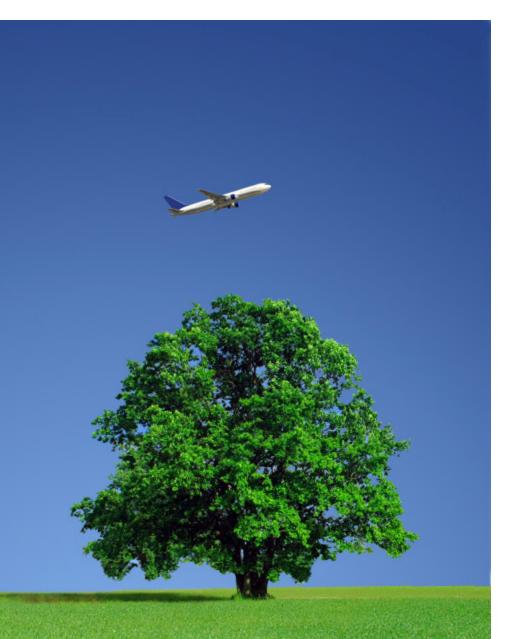


We are a global mass transit system safely transporting 2.2 billion passengers annually



Air transport was built by turning dreams into reality

and turning challenges into opportunities



Anything is possible

even zero carbon-emission flight!





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Thank you

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