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
  - 32 million jobs
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
  - 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 cross-industry cooperation
  - Including government
- ICAO is best equipped to facilitate this
IATA Four Pillar Strategy

- **Technology**
  - Cleaner airframes, engines and fuels

- **Aircraft operations**
  - Achieve maximum efficiency & minimum weight

- **Infrastructure**
  - Improve air & ground traffic management

- **Economic instruments**
  - Support technology
  - Mitigate emissions
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
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**
  - Safe & sustainable
  - Available & affordable
  - **IATA target** is for 10% alternative fuel by 2017
Pillar 2: Operations

- In 2007 IATA Green Teams saved airlines and the environment 7 million tonnes CO₂

- How? For example through
  - Better flight planning
  - Better fuel planning
  - Weight reduction

- Following ICAO Guidance
  - Circular 303
Pillar 3: Infrastructure

- Efficient Air Traffic Management cuts CO2
- 395 routes shortened in 2007
- “IATA 1”
  - Saves 15 minutes
  - and 84,000 tonnes of CO2 per year
- “Olympic Bypass”
  - Saves 60 miles
  - And 83,000 tonnes of CO2 per year
Pillar 3: Infrastructure

- **US**
  - Next Gen

- **Europe**
  - SESAR
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
  - Especially via REDD projects
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

Aviation and Climate Change
Cooperation is crucial

Governments

Air Navigation Service Providers

Aircraft & engine makers

Aircraft buyers & operators

Airport
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!
Aviation and Climate Change

Thank you

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