



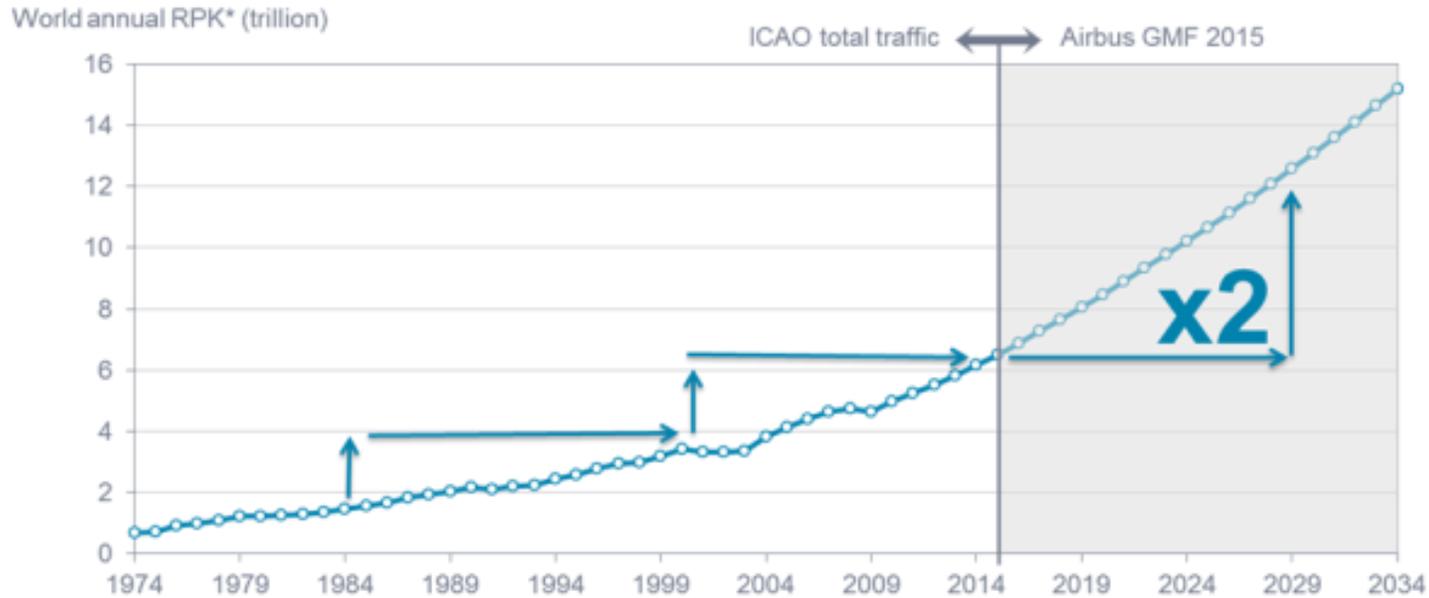
ICAO SEMINAR ON  
**GREEN  
AIRPORTS**  
8 AND 9 MAY 2019 | LIMA, PERU

# Airbus & Airports together for a sustainable growth

Green Airports Conference, Lima  
May, 9<sup>th</sup> 2018

Frédéric Eychenne  
Director - Air Transport Affairs

**AIRBUS**



Air traffic will double in the next 15 years

2014-2034

**4.6%**

# Civil Aviation

Civil aviation growth is significant

Sustainability is key

# Helping to Solve Societal Challenges

We believe in the potential of responsible businesses to help make the world a better place. We are committed to applying our resources and energies to seeking solutions for societal challenges.

We strive for excellence in engineering, manufacturing and customer service. Airbus people are focused on delivering innovative solutions to improve the way we live, travel, connect and protect ourselves.

Our approach to sustainable development is guided by the internationally recognized UN Sustainable Development Goals. We first set our commitments against the relevant UN goals.



A commitment to achieving inclusive and quality training or development aligns to our belief that education is one of the most powerful vehicles for progress.



We believe empowering women, promoting equal opportunity and ending all forms of discrimination is not only a human right, but also has a multiplier effect across all other development areas.



Promoting inclusive and sustainable economic growth, full and productive employment, decent work and equal pay for everyone is at the heart of our business philosophy.



We believe sustained investment in infrastructure and innovation are crucial drivers of economic growth and development.



Reducing environmental footprint and ensuring responsible health and safety management are key to achieving sustainable development. We are focused on meeting both the short and long-term challenges we face.



We are committed to reducing our contribution to climate change by reducing the carbon intensity of our operations. We are also working in partnership with suppliers, industry and government stakeholders to achieve our ambitious sectorial emissions reduction goals.



We work together with national governments, international organizations and customers to develop defense solutions that help to keep our world safer. In doing so, we are committed to innovation in civil and defense solutions to make them even more effective in addressing societal needs.

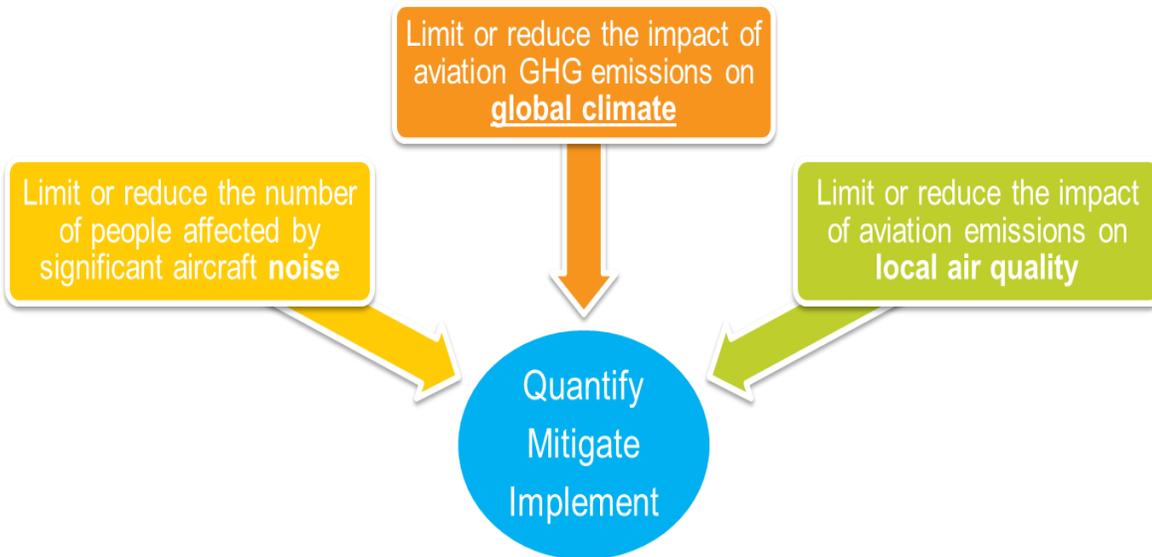


At Airbus, we come together as one in partnerships so that we can act together as responsible citizens in meeting societal and environmental challenges.

# Sustainable Development Goals

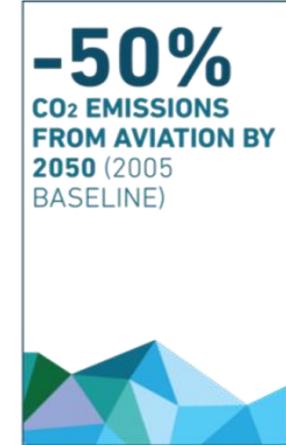
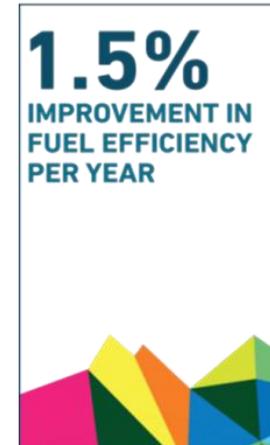
Airbus CSR policy is based on UN SDGs

## The Aviation response through ICAO - CAEP



## CO2 + Non-CO2 emissions

→ ATAG / Industry Goals



- + Noise (Noise Chapters compliance)
- + Air Quality standards (Under Definition)

## Environment is no longer an option

The Committee on Aviation Environmental Protection (CAEP) is the key player to define mandates, guidance and agreements for ICAO

- Policies, regulations and guidelines
- Sustainable growth
- Business development
- Social and environmental responsibility

### Key external Drivers

### Airline Environmental Strategy

- Position on climate change
- CSR
- EMS
- Cross-industry partnership
- Communications

Aircraft technology

Aircraft Operations

Air Traffic Management

Sustainable aviation fuels

CORSIA



Airbus/Airports mutual interest

**AIRBUS** Expertise

Transverse and Collaborative Initiatives

Sustainable Aviation Engagement Programme

# The Airbus approach

Integrates 5 pillars into one single strategy

Based on the main aviation drivers and stakeholders environmental strategy

Using Airbus expertise

# A complete family of eco-efficient aircraft



## A380

40% less CO<sub>2</sub>  
17 EPNdB noise margin  
to ICAO Chapter 4



## A350 XWB

25% less CO<sub>2</sub>  
21 EPNdB noise margin  
to ICAO Chapter 4



## A330neo

14% less CO<sub>2</sub>  
15 EPNdB noise margin  
to ICAO Chapter 4



## A320neo

20% less CO<sub>2</sub>  
20 EPNdB noise margin  
to ICAO Chapter 4

# The Airbus Family

## Environmental performance

CO<sub>2</sub> per seat: A350/A380 compared to previous generation aircraft. A320neo/A330neo compared to CEO

Increase **flow**  
efficiency

Increase **airspace**  
efficiency

Increase **ground**  
efficiency

ATFM /CDM



Airspace Services



Airport Solutions



**An outstanding team of ATM experts**

# Airbus Navblue Solutions

Solutions to  
enhance the safety  
and efficiency of  
air transport

**NAVBLUE**

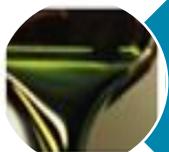
AN AIRBUS COMPANY



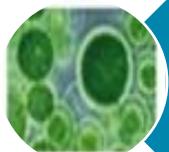
Engagement



Policies, Standards



Fuel Approval



Innovation & R&D



# Sustainable Fuels

Airbus is committed to promote Sustainable aviation fuels



**British Airways**

- A380 Noise improvements at LHR
- with EPA & Navblue



**Garuda Indonesia**

- CORSIA implementation
- With Vertis

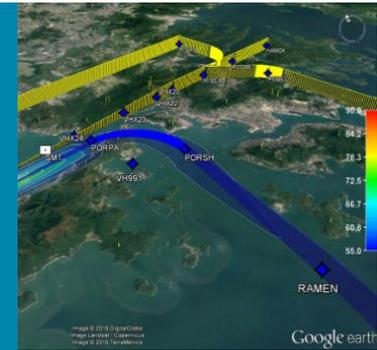
**China Airlines**

- A350 Deliveries with alternative fuels
- with Total



**Cathay Pacific**

- A350 Noise improvements at HKG
- with NavBlue



**Iberia**

- A330 & A320 Noise reduction in MAD
- with NavBlue



**Cathay Pacific**

- A350 Deliveries with alternative fuels
- with Total



**Cathay Pacific**

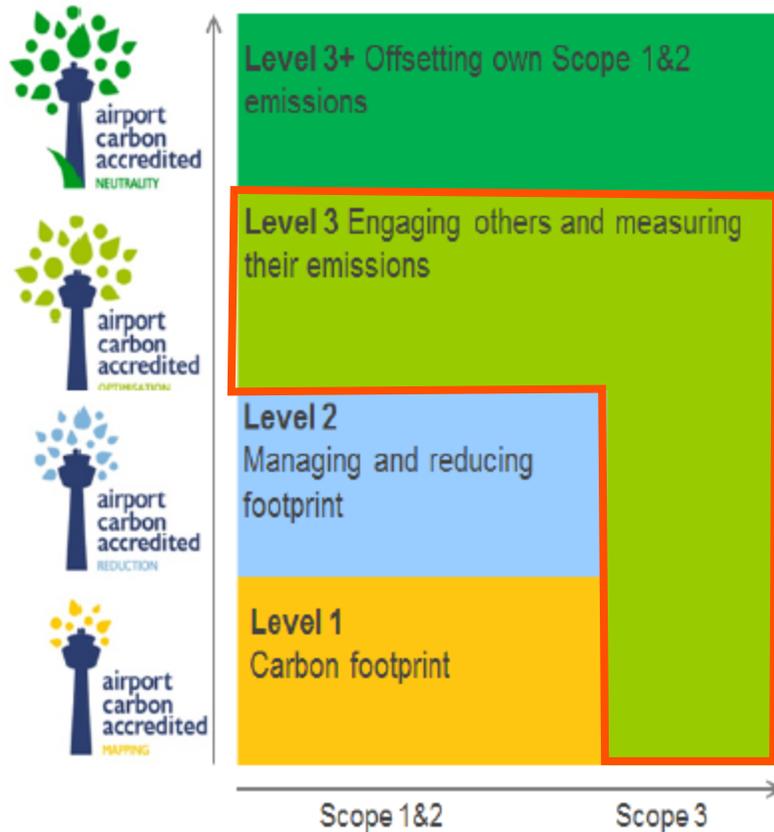
- A340 recycling
- with Tarmac

# Partnerships and projects

Collaboration projects examples including Airlines and Airports

# Airbus solutions for Emissions Reduction

Opportunities for Partnership on eco-efficiency at Airports



- Aircraft performance (A/C and operations)
- Ground operations (taxying & surface management)
- Approach, landing and departures
  - Improve operations to Increase airport capacity (minimize holding and queuing)
  - Optimization of procedures (Continuous descent and climb, trajectories)
- ATM efficiency
- Sustainable Fuels

- Airbus is committed to Aviation Emissions reduction with regard to the Aviation community and ICAO challenges
- Airports are committed for the reduction of emissions at local level and through ACI (Airport Carbon Accreditation programme)
- Airbus is also engaged to develop the most efficient product family and services contributing to reduce emissions and to contribute to reach the aviation targets
- Airports are essential partners to support the definition and the deployment of appropriate advanced solutions for environment and sustainability
- Extended Partnerships with multiple stakeholders are key to grow in a sustainable way

## Conclusion

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Airbus and Airports have mutual interest to collaborate to support aviation and airports sustainable growth

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Thank you