



Airbus Runway to Sustainable Aviation

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The Current Landscape of Aviation

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5 billion
passengers

+67,000
routes served
globally

8-9 billion
passengers in 2035

82.5%
cabin occupancy

+4,100
airports with
scheduled
services

Nr. 20
GDP (countries)

11.6 million
Direct workforce worldwide

2024 statistics by ATAG

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AIRBUS

Airbus is a global leader in aeronautics, space and related services



Airbus, Airbus Defence and Space and Airbus Helicopters

157K

Total workforce

€629bn

Order book

€69bn

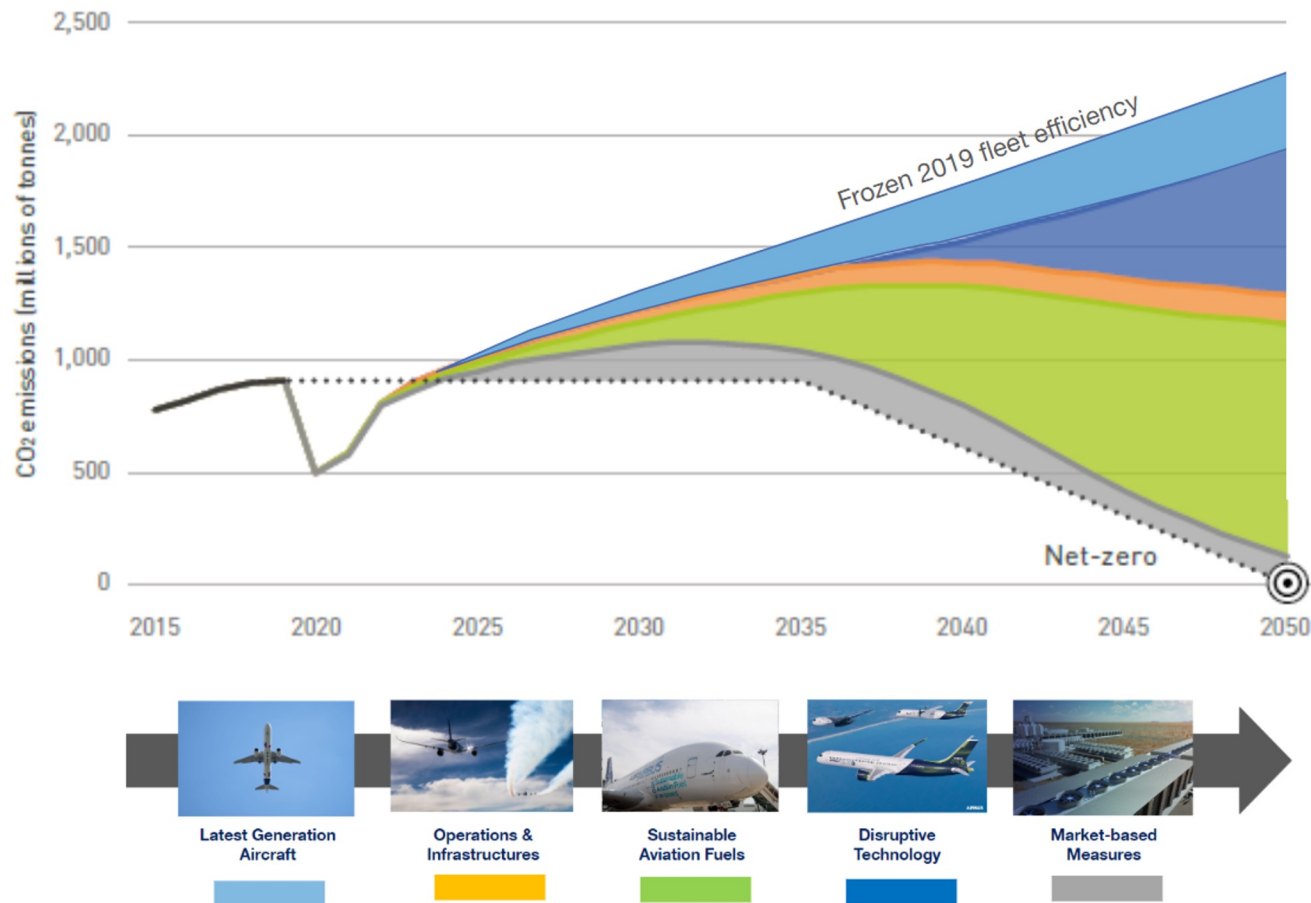
2024 revenue

The four revolutions of aviation

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A Vision for 2050 and Beyond



> ATAG CO₂ Roadmap based on most ambitious technology scenario & central traffic growth scenario: 3.1% CAGR 2019-2050

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Decarbonisation in 2050

Multiple solutions are required

Collaborative spirit is key

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Innovating disruptive technology for NGSA

 **Lightweight
Materials**

 **Hybridisation**

 **Wing**

 **Engine**

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eXtra Performance Wing

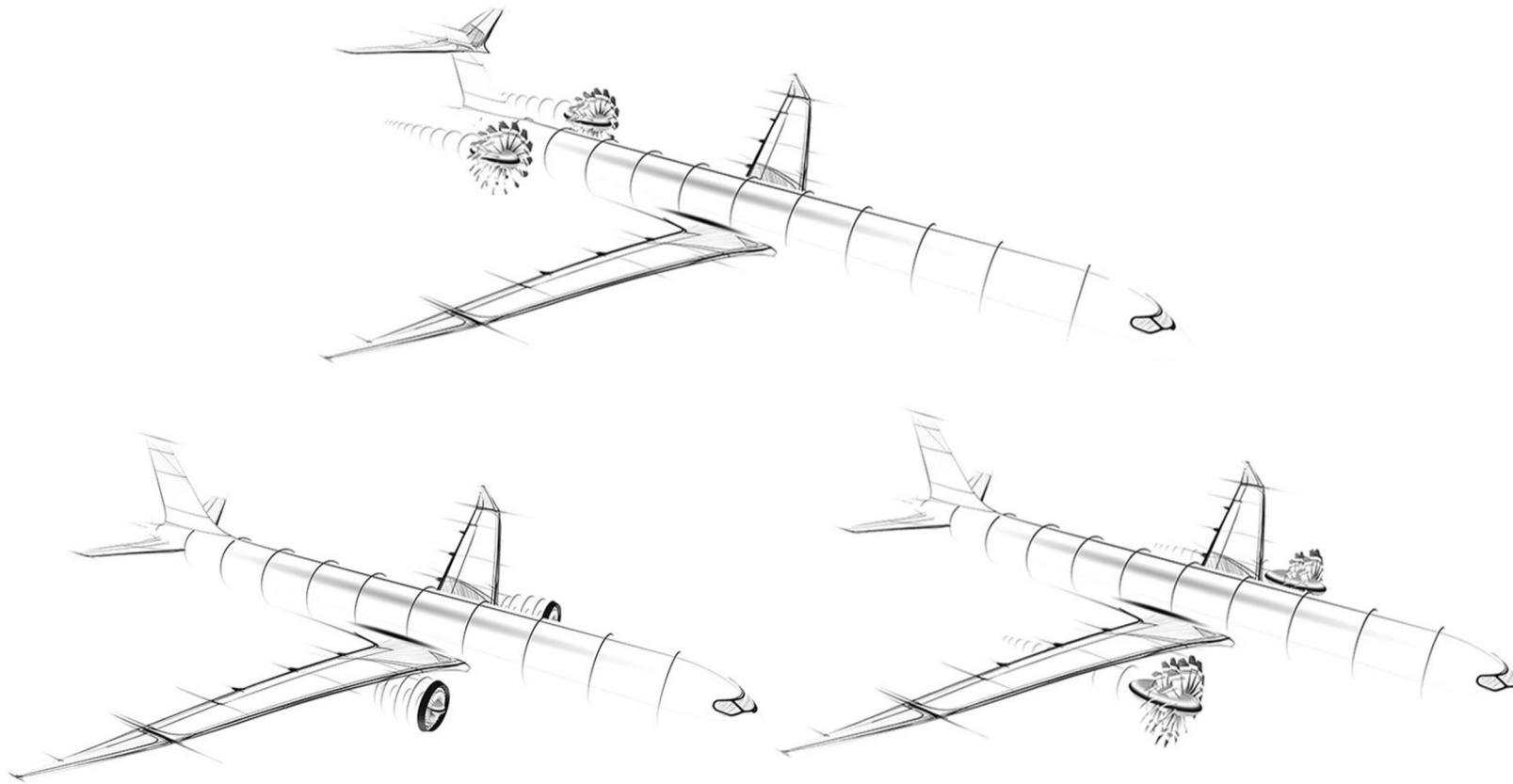
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eXtra Performance Wing

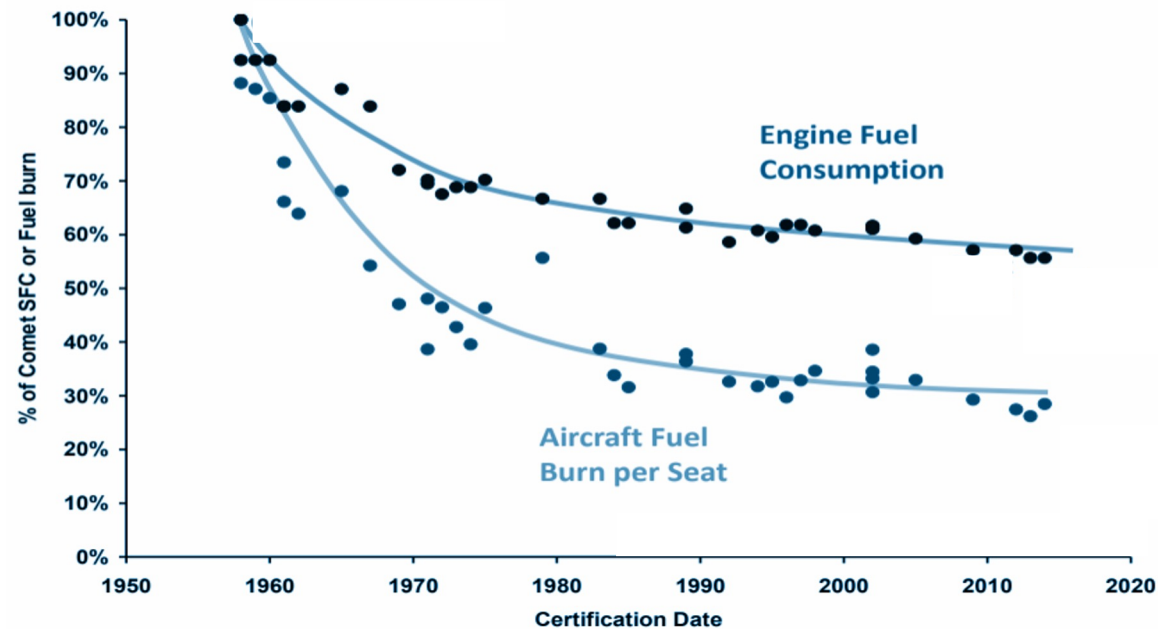


Propulsion options for NGSA



Fuel efficiency - yesterday and today

Fuel efficiency of long range aircraft

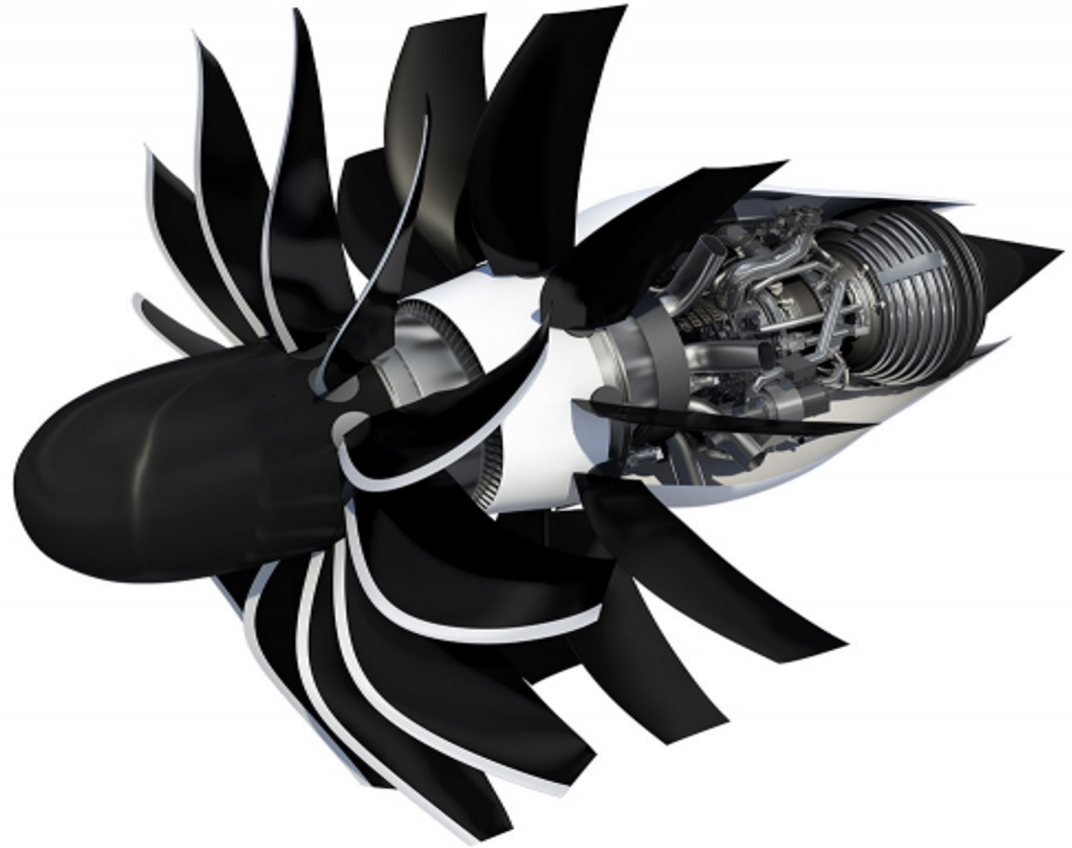
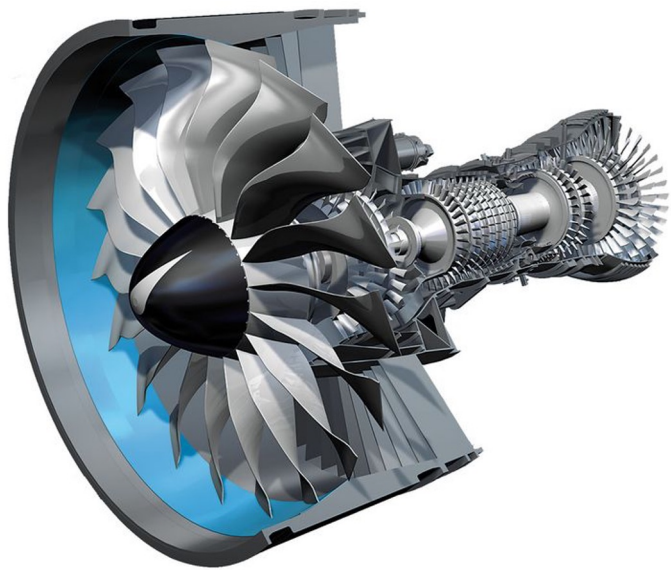


Source: Peeters et al, Fuel efficiency of commercial aircraft Fuel efficiency of commercial aircraft: An overview of historical and future trends, November 2005,Amsterdam - extended with newer data



Future Propulsion Architectures

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A380 Propulsion Demonstrator

Open Fan Technology



Accelerate advanced propulsion technologies through ground & flight testing

Evaluate propulsive system efficiency and performance



Assess aircraft engine integration and aerodynamics



Evaluate internal & external noise prediction models



Understand the use of hybrid-electric capabilities

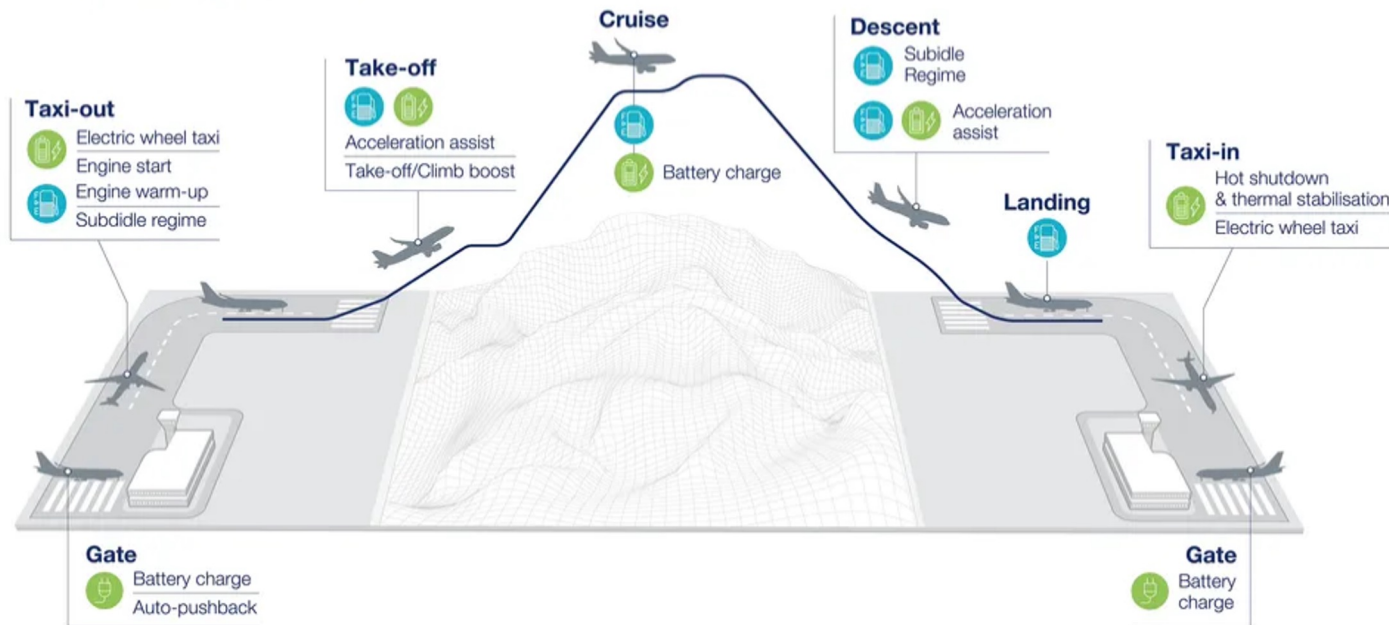


Ensure compatibility with 100% Sustainable Aviation Fuel

Hybridization of Propulsion Systems

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Aircraft hybridisation principles during the flight phases



Integrating traditional jet engines with electrical generators and motors will optimize energy management in the aircraft

Hybrid propulsion systems will allow to manage off-design performance more effectively

A new paradigm: ZEROe

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A staged, bold and coherent decarbonisation journey

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Prepare options for a sustainable short-, medium- and long-term future for aviation
ZEROe roadmap adapted to the ecosystem development pace with a focus in the coming years on maturing technologies



Thank you

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