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There are clear economic and social benefits in having a successful aviation sector - 56 million jobs globally; 3.5% of global GDP.



# The Airbus Family today



A330 Family



A320 Family



A380 Family



**A350 XWB** 

14,606 orders

**5,793** backlog

8,699

626

25,000

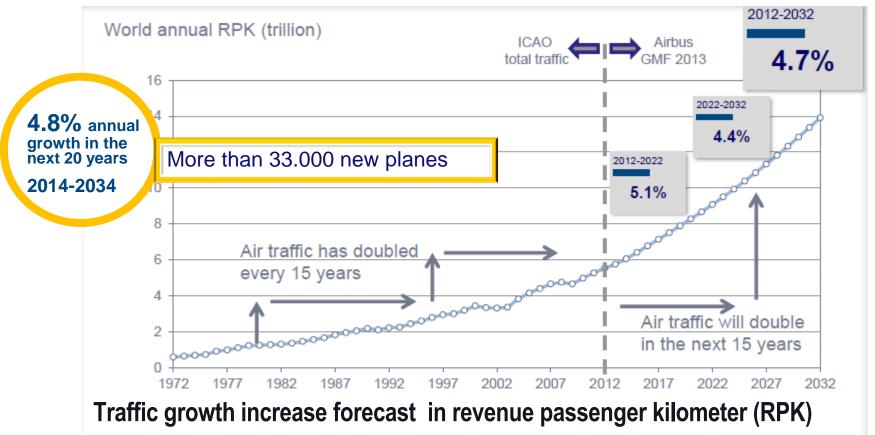
deliveries Deliveries 2013 flights daily

Data at Sept 2014



# Society demands - Forecast on world traffic growth

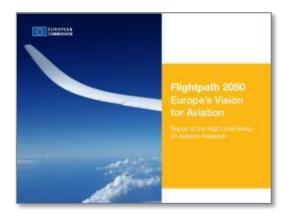
Currently the aeronautics is suffering a number of challenges of societal, environmental and economic character.



A RPK is flown when a e passenger for whose transportation an air carrier receives commercial is carried one kilometre



Society demands – Example: environmental footprint



Flightpath 2050
Europe's Vision for aviation





ACARE – Advisory Council for Aerospace Research in Europe (EC, DLR, NRL, Onera, Safran Indra, Thales, RR, Aena, IATA, Augusta, Dassault, Patras Univ., CDTI etc.)



- By 2050 Commissions per passenger kilometer with have been reduced by 75% compared to a 2000 technology level
- NOx emissions will have been reduced by 90% compared to the 2000 technology level
- The perceived noise emission of flying aircraft is reduced by 65% compared to the 2000 position

# Strategic agenda - Global answers: "Vision 2050" and Targets: ACARE

#### **Challenges & Associated Goals**

- Meeting societal and market needs
- Industrial leadership
- Environment & energy supply
- Safety and Security
- Prioritizeresearch, testing& education

- 90% of travelers within EU to complete journey within 4 hours
- Coherent ground infrastructure
- Flights land within 1 min of the planned arrival time
- Air traffic management system providing services to handle 25 million flights/year
- EU aviation sharing more than 40% of global market
- Leading edge design, manufacturing and system integration capability
- Decreased development costs (i.e. certification by 50%)
- CO2 emissions reduced by 75%, NO<sub>X</sub> emissions by 90% and perceived noise by 65% relative to year 2000
- Vehicles designed and manufactured to be recyclable
- Sustainable alternative fuels
- Less than one accident per ten million flights
- Air vehicles resilient by design to security threat evolution
- Research & innovation strategies jointly defined by all stakeholders
- Multi-disciplinary technology clusters
- Courses at universities match the needs of the industry





addresses the full scope of customer expectations



## Pillars – Technology and Proven values



Technology as established driver for success



# Made in Spain – Example: carbon composite structures



Horizontal tail plane A320 NEO



Bottom panel wing A350XWB



Section 19 fuselage A380



Section 19 fuselage A350XWB



First time in the market



## Pillars – Partnerships Airbus role as puller







Centro para el Desarrollo Tecnológico Industrial



Innovación en Composites Avanzados y Rear-End Optimizado



















Open innovation is the use of directed inflows and outflows of knowledge to accelerate internal innovation and expand the market for external use of inventions

**Systems:** 



































Crowdsourcing processes

Technology push / market pull

M AIRBUS

#### Connect Industry and Academic research

artners



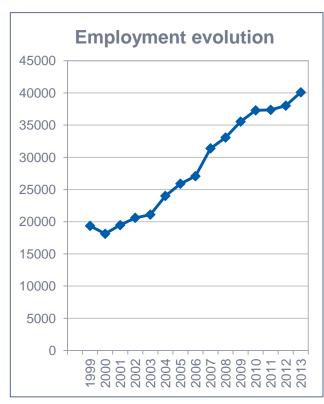




# What aeronautics provides in Spain



80% export





351 companies certified against EN9100 518 productive centers



>40,000 sustainable and highly skilled jobs in Spain



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Los pilares que nos permiten servir a la sociedad y seguir inventando el futuro descansan en:

- Un conocimiento de las demandas de los clientes y los desafíos de la sociedad
- Una hoja de ruta tecnológica coordinada
- Estrategia negociada con todos los involucrados
- Buen aprovechamiento de los recursos internos y externos
- Atmósfera que permita trabajar en condiciones de continuidad

