


# The “proactive” green aircraft – design drivers

Concept to drive R&T



**Reduce  
noise**

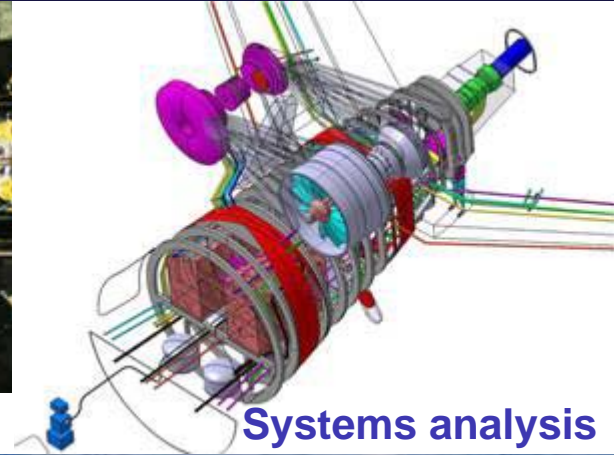
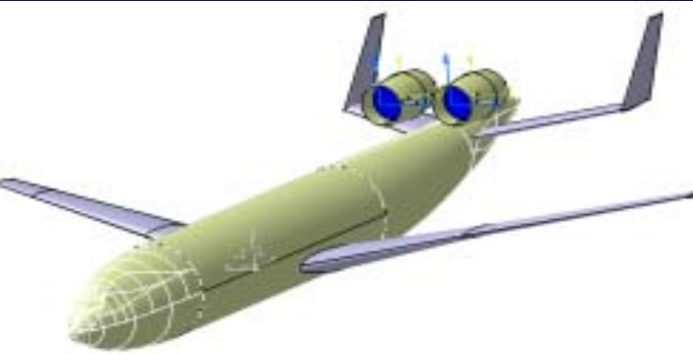
**Environmental  
friendly  
manufacturing**

**Reduce  
fuel burn**

**Reduce  
emissions**

**Giving minimum affordable impact of aviation operations  
and manufacturing on the environment**

# The “proactive” green aircraft – solutions and technologies



Jet noise shielding studies and test in acoustic wind tunnel

Systems analysis

Concept to drive R&T

**Engine /  
airframe  
integration**

**New architectures  
(contra fan, gearbox)**

**Fuel efficient,  
quiet, clean  
engines**

**High aspect  
ratio, low  
swept wing**



# The “Money Booster” – design drivers

Concept to drive R&T

**Low manufacturing  
cost**

**Versatility  
in  
operation**

**Simple and  
robust design**



**Maintenance  
free aircraft**

**Minimum  
number of  
parts**

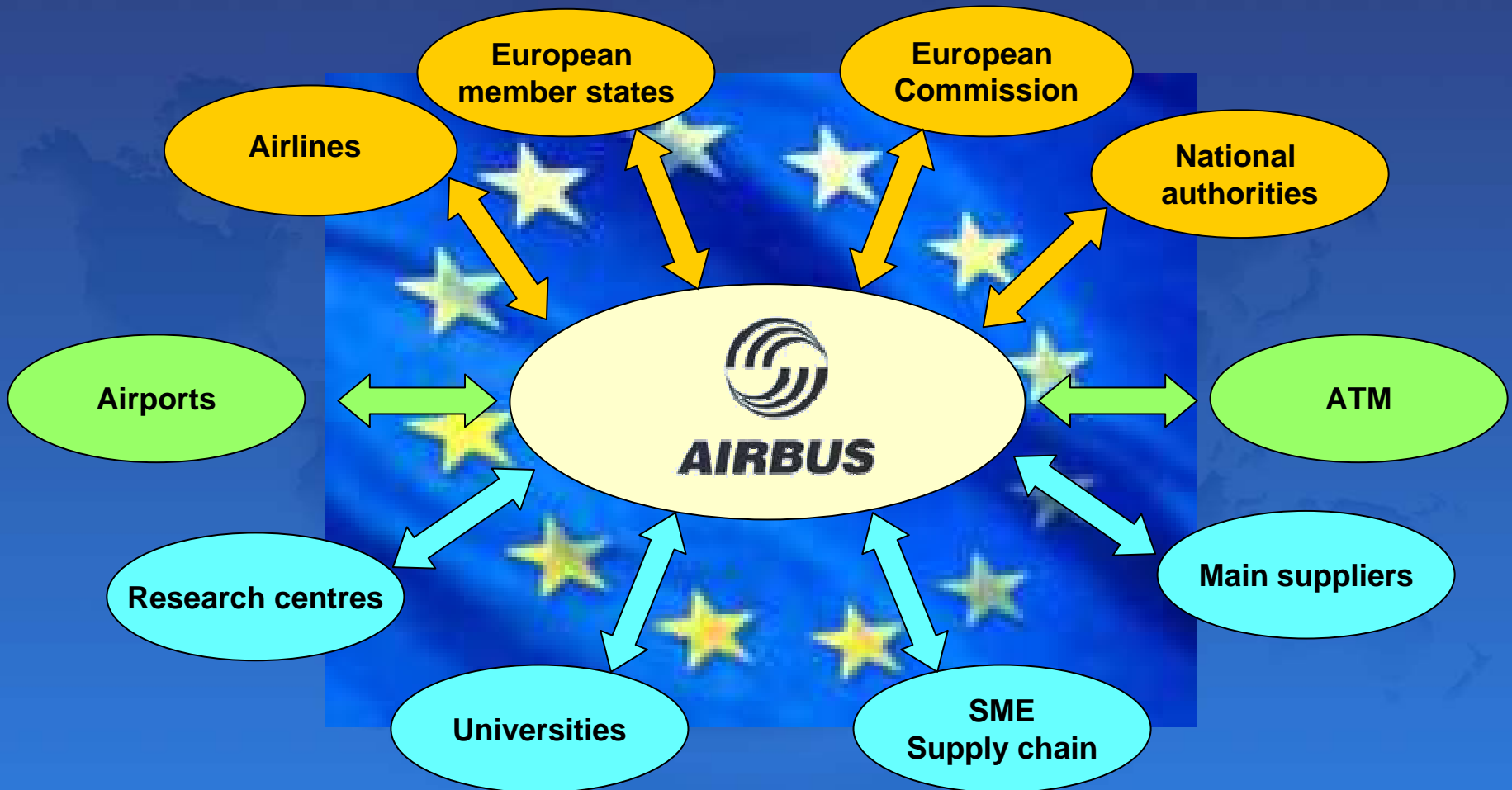
**Putting maximum emphasis on return of investment over  
life cycle of the aircraft**

# The “Money Booster” – solutions and technologies

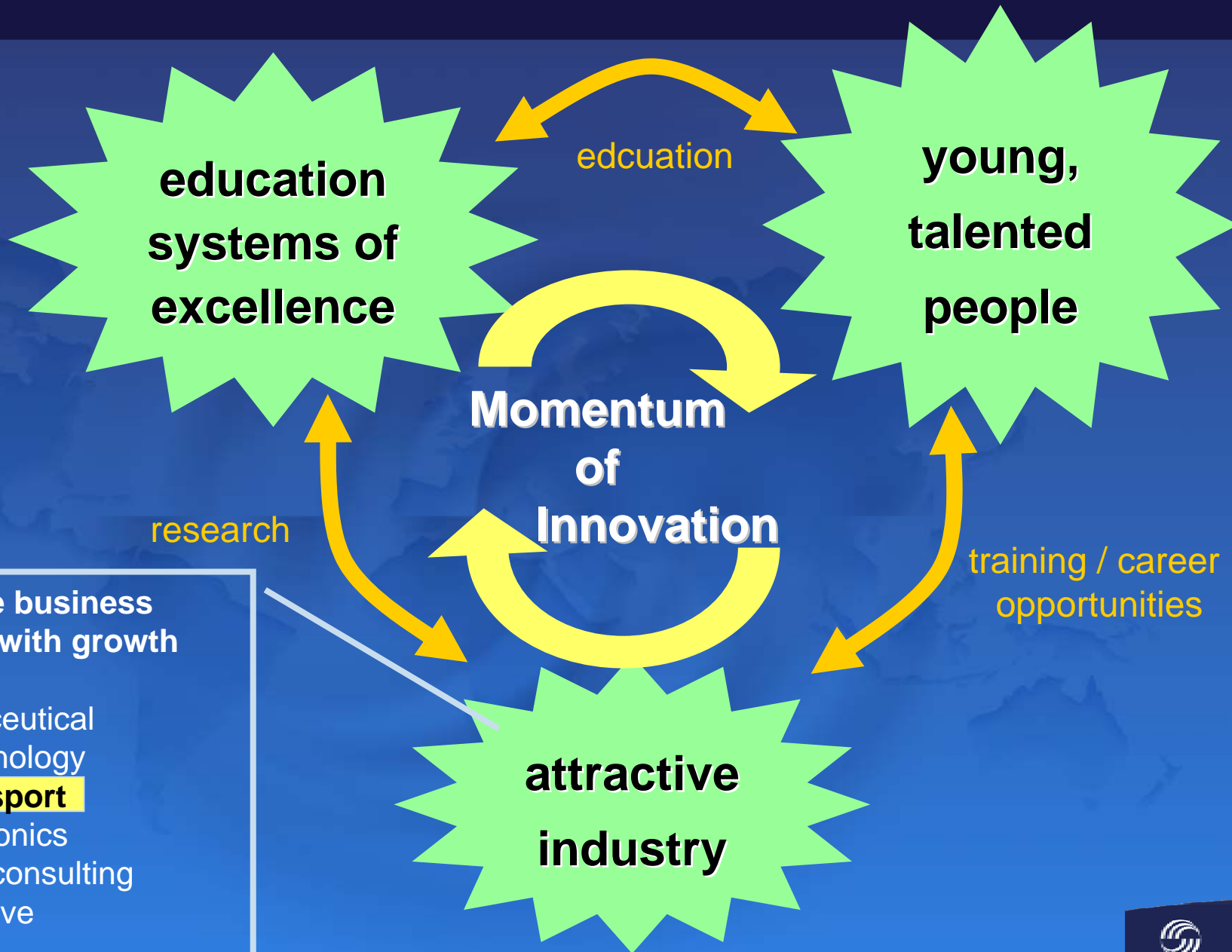


# Leading role of Airbus as R&T architect in Europe

## Airbus relevant stakeholders in ACARE



# Successful Innovation



# Conclusion

- Evolution or Revolution?

- ▶ New aircraft programs involve high capital expenditure and risk
  - Evolutionary development may look most probable
- ▶ However:
  - Innovation has been and will be mandatory for the future
  - Exploring new ideas, concepts and dreams is a constant challenge
  - Innovation needs the best brains and young talents
  - Fascination for Aeronautics is key motivator for young and experienced engineers
  - Well trained and motivated young engineers are the base for future success of this industry

**Joint effort from industry, research centers and universities  
to develop innovative concepts and dreams**

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