

# **EU FINANCING OF R&D IN AVIATION POST-2020**

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GREEN AVIATION BUSINESS BREAKFAST 27/09/2017

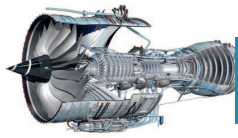
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## High-level political messages

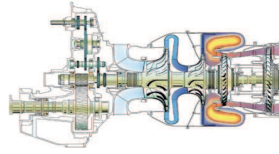
- Air transport : essential enabler for societal mobility and a **job creator across Europe**.
- Clean Sky research projects : clear **return on investment for the citizen**
- **EU strategic autonomy**, as driver of economic growth.
- **Intense competition** (US, Russia and China)
- **Sustainability** is key, both in terms of fuel efficiency, and the wider social and environmental responsibility of our industry.
- Successful **public private partnerships like Clean Sky** are the fundamental pillars for European sustainable leadership worldwide.

# Clean Sky achievements

## Clean Sky 1 demonstrators



Large Turbofan



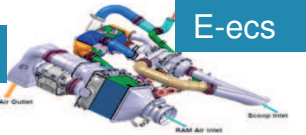
New Product emerging from technology development: ARRANO, selected for new H160 helicopter



Diesel cycle engine



Open Rotor



E-ecs

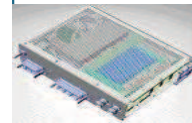


Laminar wing demo on A340



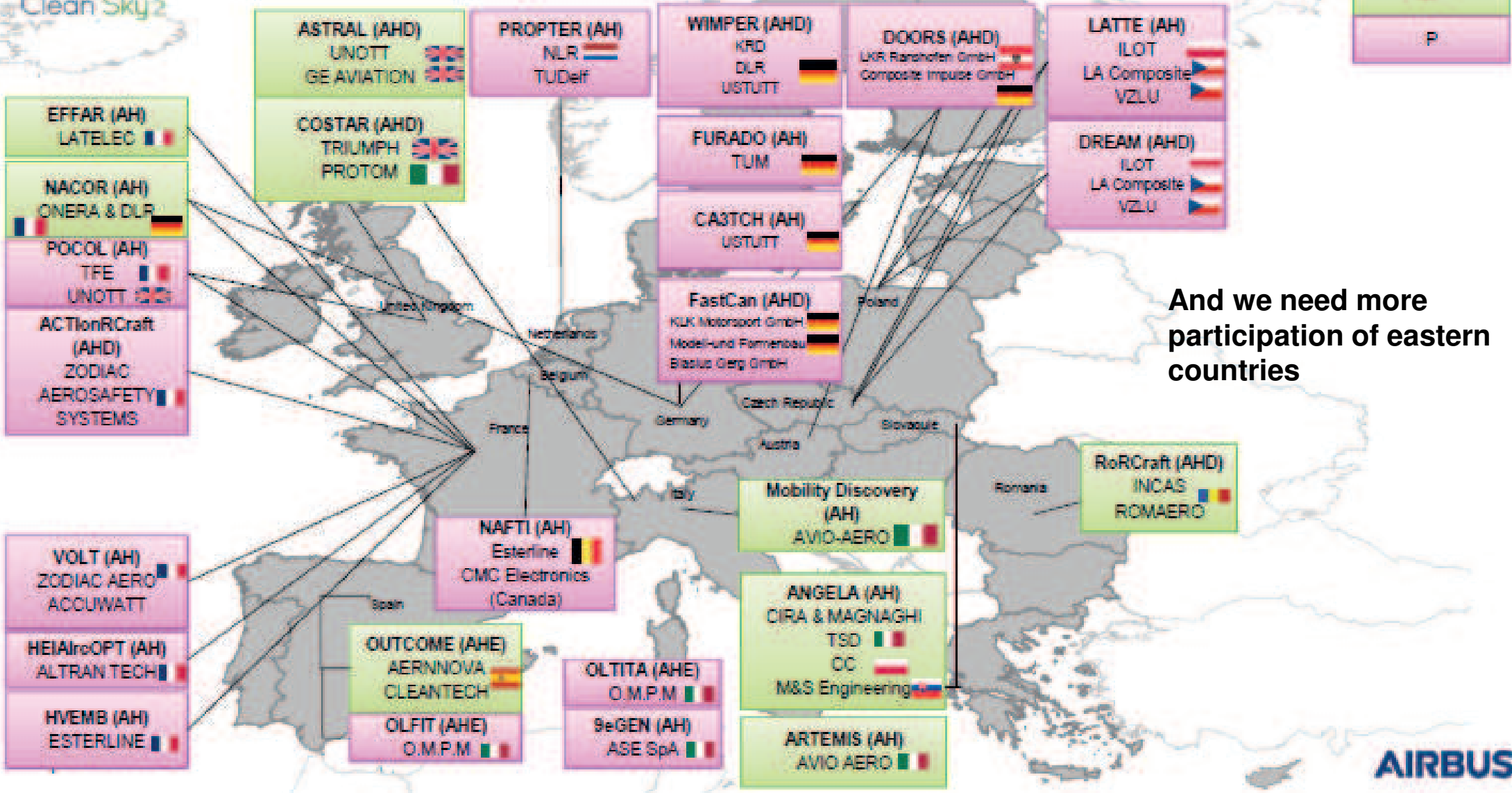
Composite fuselage on ATR72

## Clean Sky 2, new objectives with new demonstrators





# Clean Sky 2 RACER Demonstrator Partnership



And we need more participation of eastern countries





## BLADE “*Breakthrough Laminar Aircraft Demonstrator in Europe*”.



### Expected benefit :

reduce the **aircraft drag** (up to 8% for a short range) and then decrease **fuel burn** (Short Range Aircraft is up to 5% net fuel burn saving on an 800nm mission).

21 partners, under the leadership of Airbus

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## Vision: Clean Sky 3

- **More digital:**
  - Artificial intelligence
  - In-flight data
  - Big data analytics.
  - Digitalization of the shopfloor
  - More openness
- **More electrification:**
  - Electric and hybrid-electric propulsion
  - Quieter and cleaner aircraft
  - Access to new markets and applications, e.g. Urban air mobility
- **Speed up to a new pace of innovation**
  - Focus on clear objectives
  - Prioritize larger and already more complex systems (focus on the most relevant technologies with a high degree of maturation)
  - Remain sufficiently flexible to the unknowns

Thank you

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