# Clean Sky

























### **Innovation Takes Off**





#### Introduction

### **Europe's largest Aeronautics Research Programme**

- One of 6 EC Joint Technology Initiatives: Public-Private Partnership
   (PPP) in terms of funding and governance.
- Clean Sky 1 started in 2008 under FP7, up to 2017;
- continuation decision in 2014 for Clean Sky 2 under H2020, to 2024
- Clean Sky 1: 1.6 Bn€ budget / 800 M€ funding
- Clean Sky 2: 4.0 Bn€ budget/ 1.755 Bn€ funding
- Programme managed by a dedicated body: the "Joint Undertaking"



### 2020 / 2050 Environmental targets

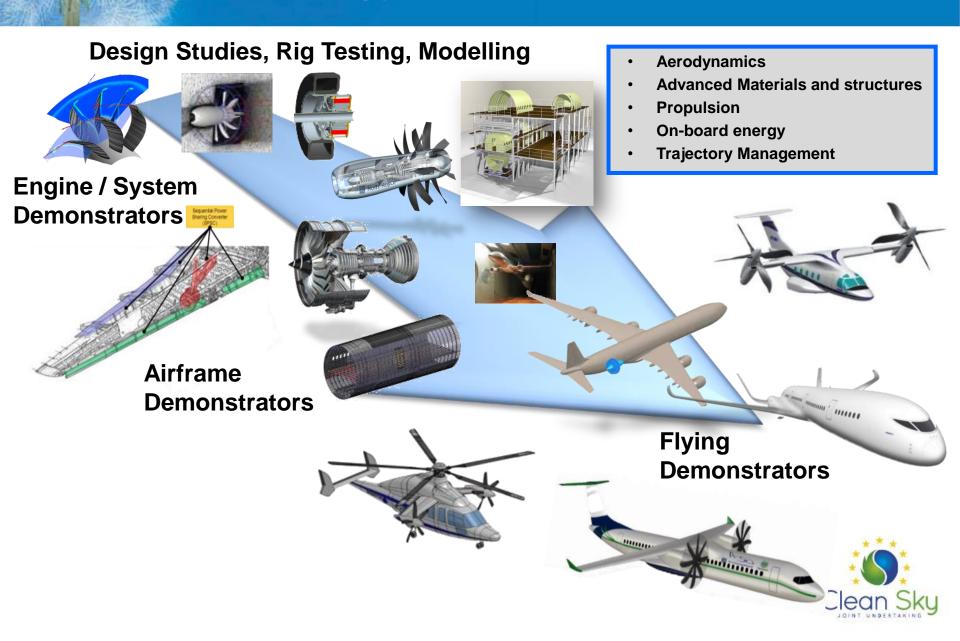
#### Reduce perceived external noise by





Vision 2020 and Flightpath 2050 targets are for new aircraft technology relative to 2000 performance

## Taking Technology to Full-Scale Demonstration





## **Clean Sky leaders**





























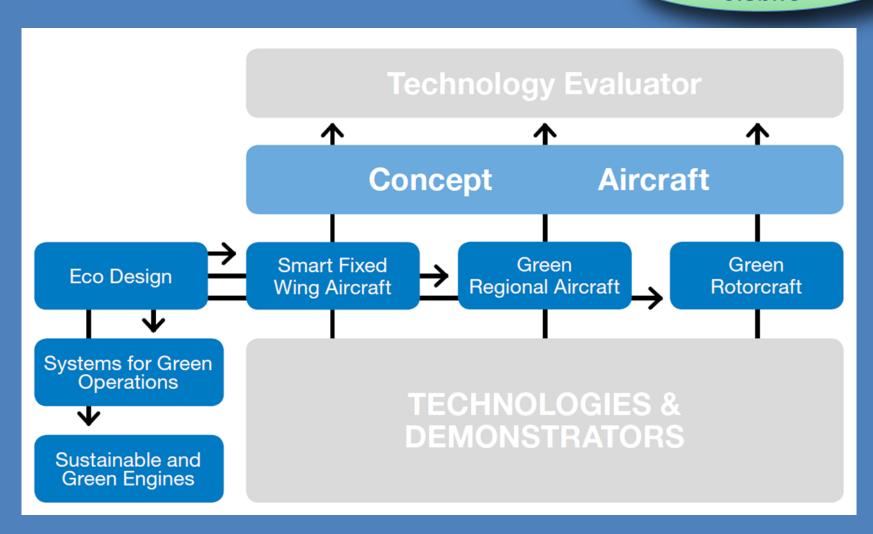




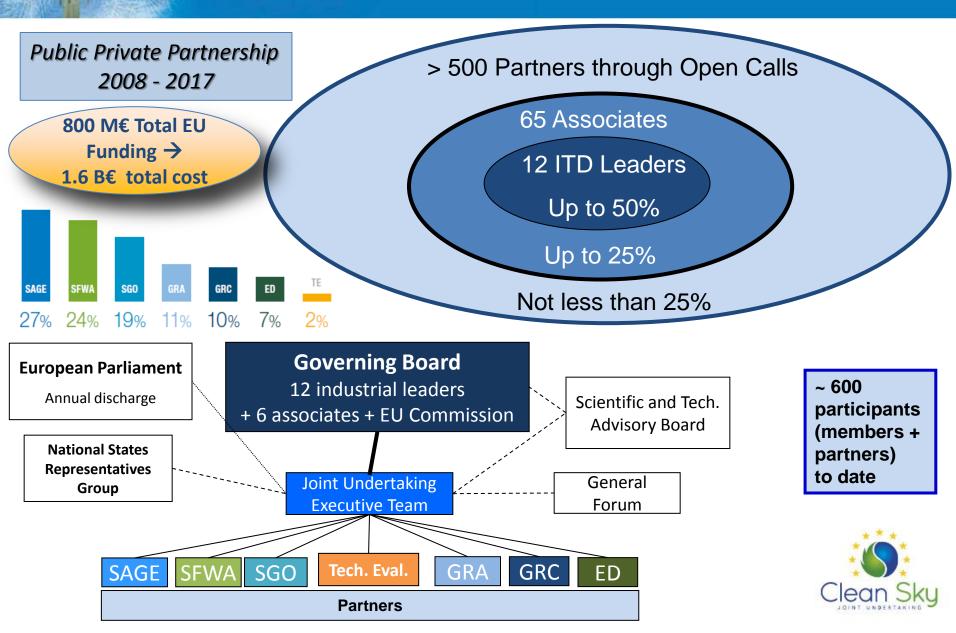


## Clean Sky 1 Programme Set-up

EU Funding 0.8bn€



## Clean Sky: the European Aviation Partnership

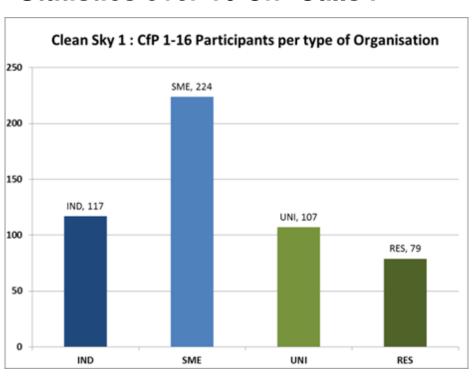


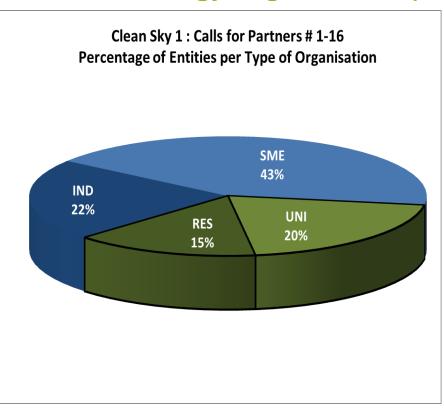


### Facts & Figures – Clean Sky 1

SMEs, Academia and RTOs (Research and Technology Organisations)

**Statistics over 16 CfP Calls:** 





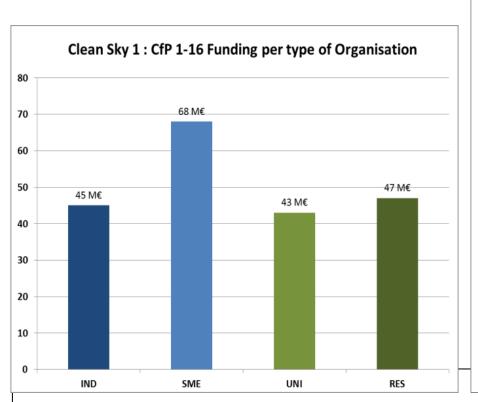
- Academia and Research Centers obtained <u>35% of participation</u>, i.e. <u>107 Universities and 79 Res. Centers</u>, sometimes involved in several different projects.
- SME's obtained 43% of participation.

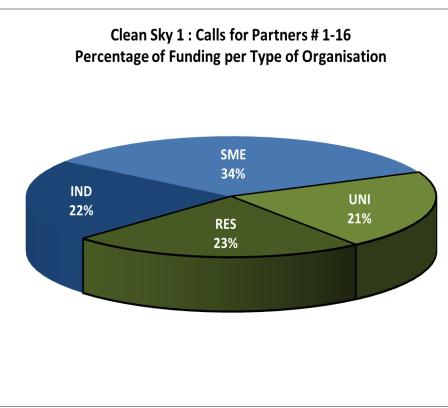


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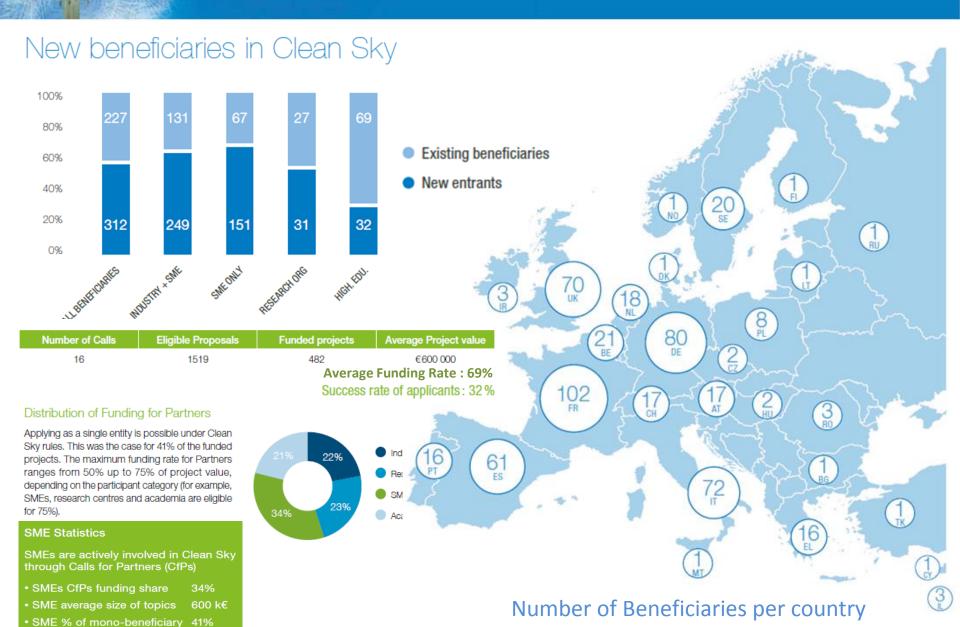




- Academia and Research Centers obtained 90 M€, i.e. 44%, twice the funding received by IND.
- SME's obtained 68 M€, i.e. 34%.
- The overall funding of the 16 Calls for Proposals calls was 203 M€ 482 Projects



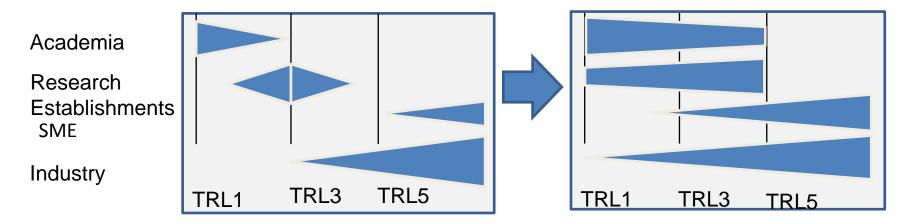
## Facts & Figures - Clean Sky 1





#### The innovation chain

✓ How the aero innovation pipeline is evolving



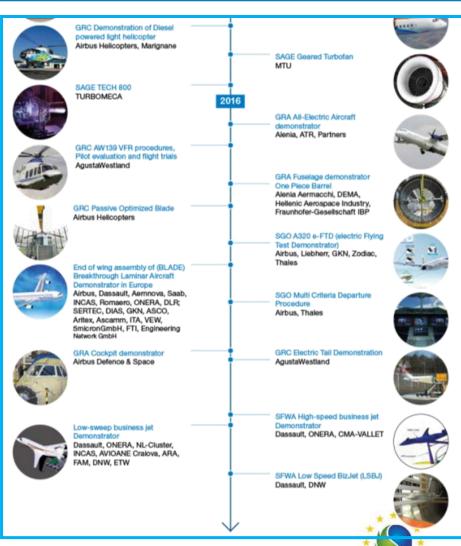
- ✓ How CS is striving to bring more SMEs to technological innovation
- Breaking the 3 barriers to innovation for new entrant SMEs: Financial / Technological / Reputational
- Focusing on precise topics and allowing applicants to run single
- Bringing a long-term strategic view
- Encouraging University or Research Org / SME teaming





### Clean Sky Demonstration





## Addressing H2020 Transport Challenge Areas

#### **Energy Efficiency & Environment**

#### **Enabling Safe & Seamless Mobility**





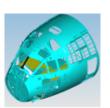
#### **Building industrial leadership in Europe**







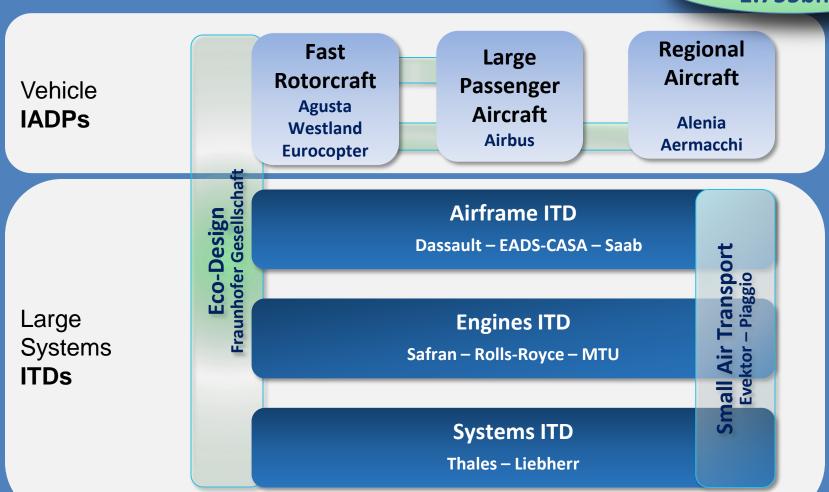






## Clean Sky 2 Programme Set-up

EU Funding 1.755bn€



Fechnology Evaluator (TE)
German Aerospace Center (DLR)



## Clean Sky 2

- ☐ Up to 40% of EU funding available for CS2 Leaders
- ☐ At least 60% of EU funding open to competition:

Up to 30% for Core Partners (becoming Members once selected)

At least 30% for CfP (i.e. *Partners* as in CS) plus CfTs: ~ 540 M€

■ Meaning >1bn€ of EU funding in play, via open Calls

Industry, SMEs, Academia, and Research Organizations eligible both for participation as Core Partners or Partners.

Participation may also take place via suitable Clusters / Consortia.

800 - 1000 Participants expected across all tiers of the industrial supply chain and "R&I Chain", with large investment leverage effect



**Thank You for your Attention** 

