

Broad and open participation



Clean Sky in a nutshell



12 ITD leaders representing **50% of funding** **65 Associates** representing **25% of funding** **553 Partners** through calls representing **25% of funding**

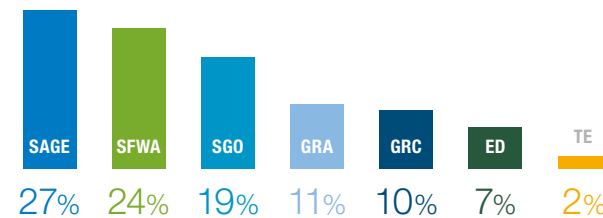
Clean Sky's research work is divided among six different platforms, called Integrated Technology Demonstrators (ITDs):

- Smart Fixed Wing Aircraft (**SFWA**)
- Green Regional Aircraft (**GRA**)
- Green Rotorcraft (**GRC**)
- Sustainable and Green Engines (**SAGE**)
- System for Green Operations (**SGO**)
- Eco-Design (**ED**)

The ITDs are complemented by the Technology Evaluator, a process that assesses the benefits of the programme output. Clean Sky Joint Undertaking (JU) uses fuel-burn, carbon, nitrogen oxide, and noise related metrics to test the benefits brought by virtual aircraft integrating consistent Clean Sky technologies with respect to recognised references (year 2000).

Members' financial contributions are distributed across the ITDs:

To date more than 20 demonstrators are being developed at a very high technological maturity level.



For readers interested in further information on Clean Sky, please see 'Clean Sky at a Glance' (downloadable at www.cleansky.eu)

Members

ITD Leaders

AgustaWestland - Airbus Group - Alenia Aermacchi - Dassault Aviation - EADS Casa - Airbus Helicopters - Fraunhofer Gesellschaft - Liebherr Aerospace - Rolls-Royce - Saab AB - Safran - Thales Avionics

Associates

Aeronamic - Aeronova Aerospace S.A.U. - Aerosoft - Airborne Technology Centre - ATR - Avioane Craiova - Avio S.p.A. - CIRA - CSM - CYTEC - Diehl Aerospace - DLR - DEMA - EADS IW - ELSIS - EPFL Ecole Polytechnique Lausanne - ETH Zurich - Eurocarbon - Fokker Aerostructures - Fokker Elmo - Fox Bit - GKN Aerospace - Green Systems for Aircraft Foundation (GSAF) - HADEG Recycling GmbH - HAI - Huntsman Advanced Materials - IAI - Igor Stichting - IMAST - INCAS - ITP - KIN Machinebouw - LMS International - MicroFlow Technologies - Micromega Dynamics - MTU Aero Engines - NLR - ONERA - Piaggio Aero Industries - Politecnico di Torino - PZL-Swidnik - QinetiQ - Romaero - RUAG Switzerland - Selex ES - Sicamb - Stichting NL - Straero - TU Delft - University of Applied Sciences Switzerland FHNW - University of Bologna/Forli - University of Cranfield - University of Malta - University of Nottingham - University of Naples - Polo delle S. & T. - University of Pisa - University of Twente - Zodiac-ECE/IN

A Success Story

Clean Sky is the largest and most ambitious aeronautical research and development programme ever launched in Europe. Its mission is to be the main contributor to the ACARE¹ goals to reduce drastically the environmental impact of aviation by developing and implementing cutting-edge technologies for delivery by 2020:

- A 50% reduction of CO₂ emissions by significantly cutting fuel consumption²
- An 80% reduction of NOx (nitrogen oxide) emissions
- A 50% reduction of external noise
- A green product life-cycle: design, manufacturing, maintenance and disposal/recycling.³

Clean Sky is a public-private partnership founded in 2008 by the European Commission and the European aeronautics industry, with a total budget of €1.6 billion.

At the beginning of the programme, a group of 77 aeronautical stakeholders came together to create and fund the research network required for the large-scale projects planned by Clean Sky to attain its goals. The €800 million provided by the Commission was matched by financial and in-kind contributions from these stakeholders, a sign of their confidence in Clean Sky's success.

Of these 77 stakeholders, 12 are classed as Integrated Technology Demonstrator (ITD) Leaders. Their contributions represent 50% of the private Clean Sky budget. The other 65 are classed as Associates, who contribute 25% of the budget.

The remaining 25% is provided by an even larger network of 553 Partners, each of whom has won a 'call for proposal', a competitive selection processes to determine the best-qualified actor to carry out a specific research project within the programme.

Together, the European Commission, ITD Leaders, Associates, and Partners make up the membership of Clean Sky, involving 24 European countries and a network of some 10,000 highly skilled professionals active in the programme.

¹ Advisory Council for Aviation Research and Innovation in Europe

² Of this, 40% will be achieved through aircraft technology and 10% through air transport management (ATM) optimisation

³ Based on levels from the year 2000

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Clean Sky JU
Brussels
Belgium

White Atrium Building
Avenue de la Toison d'Or 56-60
1060 Brussels
Phone +32 2 221 81 52

www.cleansky.eu

Evaluation results

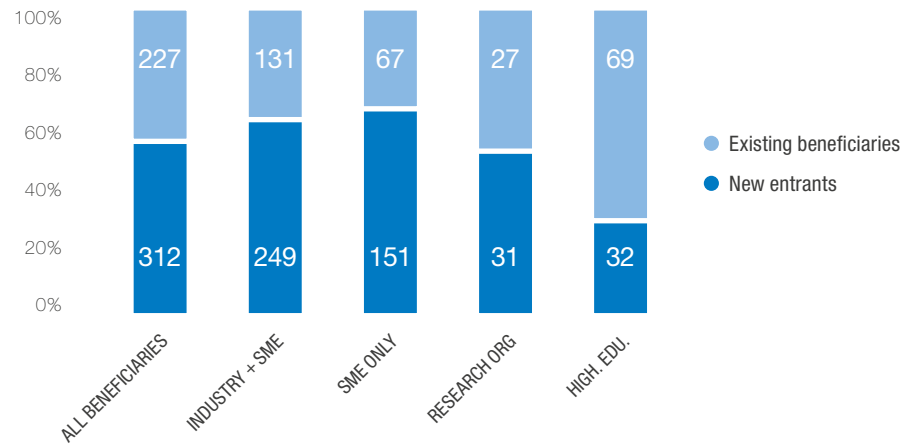
Clean Sky is an unambiguous success story not only environmentally, but also in establishing a robust innovation network that will bring even more benefits to the European economy and its skills and technologies base in years to come.

Between 2009 and 2014, 15 calls for proposals were issued and evaluated. Call 16 has been issued and is currently under assessment. More than 650 topics (projects) have been launched so far. The average value of a topic is €500,000.

Since the programme started, 1,584 proposals have been received, and 463 funded: the success rate for applicants is around 35%.

Clean Sky is particularly pleased that more than half the winners of calls for proposals, of whom 70% are SMEs, are newcomers to European-funded research programmes.

New beneficiaries in Clean Sky (Calls 1-15)



Proposals and participation

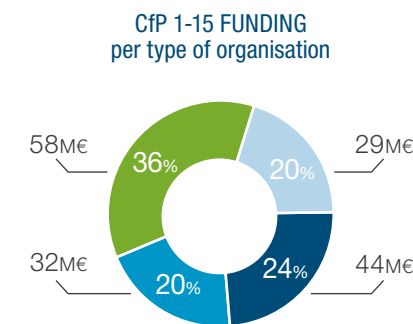
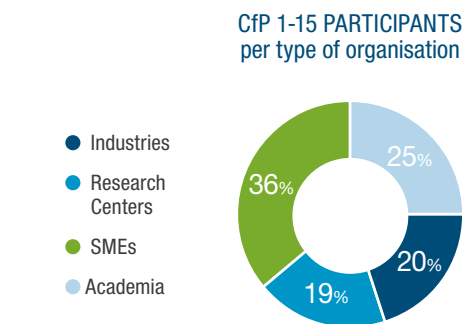
A single applicant may respond to a call: applicants do not necessarily need to form a consortium. This makes the procedure for answering Clean Sky calls for proposals easy and flexible. About 40% of winning grant applications are from single beneficiaries who then proceed to work on their project in partnership with the relevant Clean Sky members.

The total number of project participations is 1,032. But when multiple participations by applicants are discounted, the total number of participants is 553.

The funding rate for Partners is 50% to 75% of project value, depending on the applicant type (for example SMEs, research institutes and academia are eligible for 75%). The average Clean Sky funding rate for proposals selected is 66%.

The 463 funded proposals are distributed among the six Integrated Technology Demonstrators.

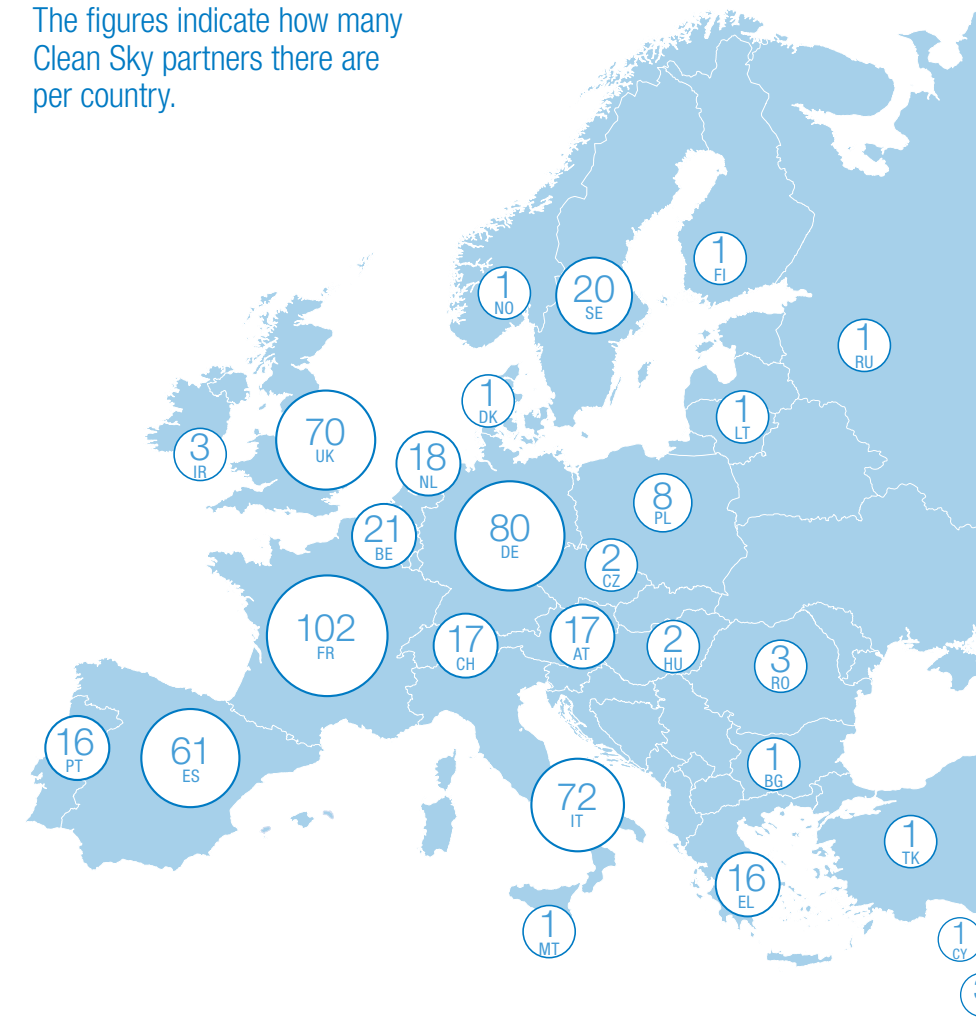
It should be noted that research organisations and academia, who together receive 40% of the funding for Partners, are also well represented as Associates. In total, they account for 27% of the full Clean Sky budget.



The 463 funded proposals are distributed between the 6 Integrated Technology Demonstrators.

Calls and profiles

The figures indicate how many Clean Sky partners there are per country.



Country comparison for calls for partners

