



JTI Clean Sky

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Clean Sky 1 (2008-2017)

Clean Sky JTI was born in 2008 with a budget of € 1.6 billion, contributed to on a 50/50 basis by the Commission (**in cash**) and the aeronautical industry (**in-kind contribution**). ITD Leaders commit up to 50%, Associates members up to 25% and Partners (through Call for Proposals) a minimum of 25%.

Clean Sky: a broad and open participation



- 473 Partners through calls representing 25% of funding
- 65 Associates representing 25% of funding
- 12 ITD leaders representing 50% of funding



Clean Sky (1) – The six Integrated Technology Demonstrators (ITDs) and the Technology Evaluator

SMART Fixed Wing Aircraft - SFWA - will deliver active wing technologies and new aircraft configuration for breakthrough, news products.

Green Regional Aircraft - GRA - will deliver low-weight aircraft using smart structures, as well as low external noise configurations and the integration of technology developed in other ITDs, such as engines, energy management and new system architectures.

Green Rotorcraft - GRC - will deliver innovative rotor blades and engine installation for noise reduction, lower airframe drag, integration of diesel engine technology and advanced electrical systems for elimination of noxious hydraulic fluids and fuel consumption reduction.

Sustainable and Green Engines - SAGE - will design and build five engine demonstrators to integrate technologies for low noise and lightweight low pressure systems, high efficiency, low NOx and low weight cores and novel configurations such as open rotors and intercoolers.

Systems for Green Operations - SGO - will focus on all-electrical aircraft equipment and systems architectures, thermal management, capabilities for "green" trajectories and mission and improved ground operations to give any aircraft the capability to fully exploit the benefits of Single European Sky.

Eco-Design - ECO - will focus on green design and production, withdrawal, and recycling of aircraft, by optimal use of raw materials and energies thus improving the environmental impact of the whole products life cycle and accelerating compliance with the REACH directive.

A simulation network called the **Technology Evaluator** will assess the performance of the technologies thus developed.

- The Regulation creating Clean Sky 2 (CS2) came into force on 26 June 2014 following its adoption by the Council of the European Union (the EU member state governments) on 6 May 2014. It will build on, and carry forward, the successes of the first period of the Clean Sky Joint Technology Initiative which ends in 2017. The programme's principal objectives include reducing aircraft **emissions** (CO₂ and NO_x), cutting perceived **noise** levels, and keeping the European aviation and aeronautics sector as a recognised global centre of **excellence**.
- CS2 will run from **2014 to 2024**. The transition from the first period of Clean Sky will be effected in 2014 and be completed by 2016.

- **The budget**

In recognition of Clean Sky's achievements to date and its future potential, CS2 will have a bigger budget: just over **€4 billion** compared to the €1.6 billion earmarked for its predecessor.

Of this, a total of **€1.755** billion will come from the **European Commission**.

The **private sector** industry leaders will contribute approximately **€2.2 billion**

- **The funding principles**

- A maximum of **40%** of the available EU funding (roughly €700 million) will be allocated to **Leaders**.
- At least 60% of EU funding – representing over €1 billion in EU funding – will be open to competition:
- **Core-Partners** compete via calls for Core-Partners, becoming Clean Sky members once selected. The Core-Partners will be eligible for **30%** of EU funding, up to €540 million.
- **Partners** compete through calls for proposals. The **30%** of EU funding (€540 million) set aside for Partners will be awarded via participation in calls for proposals or, where relevant, via public calls for tender.

- The *Clean Sky 2* programme consists of four elements:
- **Three Innovative Aircraft Demonstrator Platforms (IADPs)**, for Large Passenger Aircraft, Regional Aircraft and Fast Rotorcraft, developing and testing flying demonstrators at the full aircraft/vehicle level;
- **Three Integrated Technology Demonstrators (ITDs)**, looking at airframe, engines and systems, using demonstrators at major integrated system level;

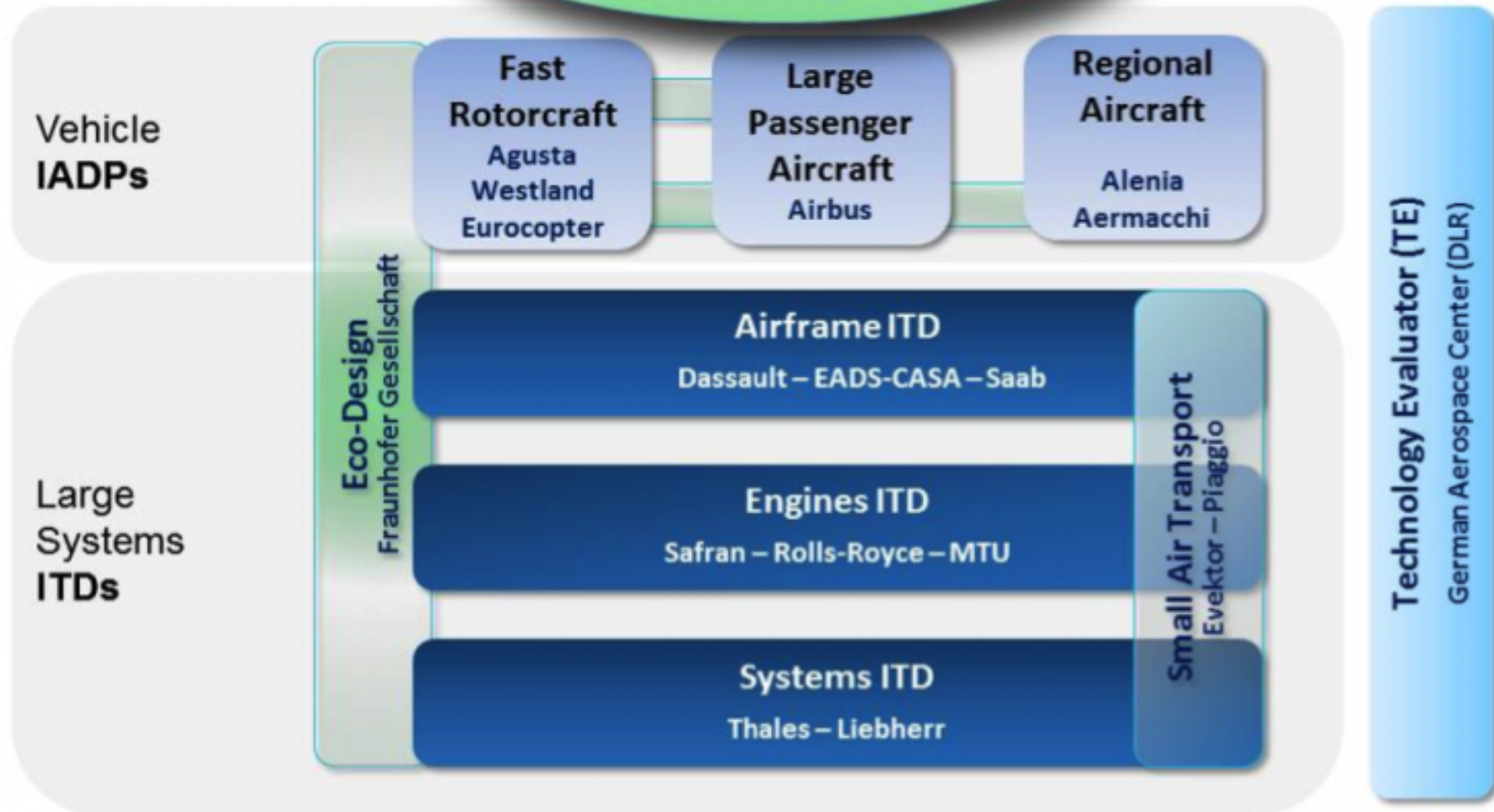
- **Two Transverse Activities** (Small Air Transport, Eco-Design), integrating the knowledge of different ITDs and IADPs for specific applications and enabling synergies to be exploited between different platforms through shared projects and results;
- **The Technology Evaluator (TE)**, monitoring and assessing the environmental and societal impact of the technologies developed in the IADPs and ITDs.

EU Funding Decision

1.755bn€

(1.716bn€ "net")*

* After running costs



*Building on Clean Sky, going further into integration at full aircraft level
And developing new technology streams for **the next** generations of aircraft*



Membership and participation

- There are **three levels of participants**
- **The 16 Leaders** are committed to deliver the full Clean Sky 2 programme throughout its duration
- **Core-Partners** will be sought, who will make **substantial long-term commitments** to the programme, bringing key competences and technical contributions in line with its high-level objectives.
- **Partners** will be invited to participate in **specific topics and projects** in the context of a well-defined limited commitment.

- **Leaders** will commit themselves to implement the demonstrator programmes and manage them throughout their full duration.
- Up to 40% of CS2 funding will be reserved for Leaders.
- Leaders will **be members** of Clean Sky 2 and **contribute to co-fund** the effective operation of the Clean Sky JU.

Core Partners

Core-Partners can be private and/or public organisations (SMEs, research establishments, universities or industry) who will be selected following an open and transparent competitive process. Entities may bid either alone or jointly through clusters or consortia for Core-Partner roles once these have been declared open for competition.

Core-Partners will make substantial **long-term commitments** towards the programme and **bring key competences** and technical contributions aligned to its high-level objectives.

They will contribute to the global management of the demonstrators and **contribute financially with significant in-kind contributions**.

Specific eligibility criteria will apply in terms of applicants' capabilities, structure and financing. They will take on key roles in the programme area (ITD/IADP/TA) they join, and will be **members of the Joint Undertaking** for the duration of their activity, which will often span the lifetime of Clean Sky 2.



Core Partners

Core Partners will:

- take on a **strategic commitment** which is substantial **both technically and financially**;
- have a **leading role** in coordinating a major work-package
- share responsibility in delivering the relevant high-level objectives of the Clean Sky JU
- **be members of Clean Sky 2** and contribute towards co-funding the effective operation of the Clean Sky JU
- Core Partners in Clean Sky 2 will be the equivalent of **Associates** in the first Clean Sky phase.
- **Up to 30% of the programme funding** will go to successful applicants for Core-Partners roles.

A **Partner** can be a private or public organisation (SME, research establishment, university or industry) who is eligible for participation under Horizon 2020, and who will be selected following an open and transparent competitive process. Partners will be invited to participate in specific topics and projects in the context of a well-defined **limited commitment and over a defined period of time** in the course of Clean Sky 2.

- Partners will be chosen following open calls for proposals issued by the Clean Sky JU.
- They will **not** become **members of the Clean Sky JU**.
- The calls for Core-Partners and Partners will enable an expected **800 participants** to join the Clean Sky 2 project activity over the life of the programme

Call for Core-Partners

CLEAN SKY 2 CALL FOR CORE PARTNERS WAVE 1

H2020-CS2-CPW01-2014-01

Opening 09-07-2014

Deadline 15-10-2014

Budget €206,000,000

<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/calls/h2020-cs2-cpw01-2014-01.html#tab2>

Clean Sky 2 Info Day on the 1st Call for Core-Partners in Brussels 16/09/2014

<http://www.cleansky.eu/content/event/clean-sky-2-info-day-call-core-partners-0>

Call for Proposals (CfP) for Partner-level participation is expected to open in **4.Q 2014**

- **Clean Sky 2 Info Day** on the 1st Call for Partners (Call for Proposals) in **Paris 26/11/2014**
- *Registration and Agenda will soon be available*
- <http://www.cleansky.eu/content/event/clean-sky-2-info-day-1st-call-partners-call-proposals-paris>



Další informace

Clean Sky

<http://www.cleansky.eu/content/homepage/about-us>

Participant Portal (EK)

<http://ec.europa.eu/research/participants/portal/desktop/en/home.html>

H 2020 (EK)

<http://ec.europa.eu/programmes/horizon2020/en/>

H 2020 (TC AV ČR)

<http://www.h2020.cz/cs>

Brožura H 2020 (TC AV ČR)

<http://www.h2020.cz/files/svobodova/TCAV-brozura-Horizont-2020-web.pdf>
