Innovation Takes Off

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General Overview of the *Clean Sky 2* Preparations

Innovation Takes Off

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A Brief Re-Cap on *Clean Sky*

Unique Public-Private-Partnership in Aeronautics

- Integrated, thematic set-up
- Downstream approach
- Large scale and complex demonstrations,
- Open Calls for engaging participants

- On track in important gains towards the environmental objectives
- ~75% of the work committed or achieved
- Approaching 600 participants

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New Frontiers beyond *Clean Sky*

1. **Bridging the gap**: FP7 & Clean Sky end well before 2020, the ACARE SRA1 reference date

   - **Further demonstration required**: Some large systems from Clean Sky ITDs will still need further demonstration in order to achieve a full TRL6

   - **Further improvements will be needed to reach the 2020 Goals**, e.g. the 50% decrease of CO$_2$ (ACARE: 40% from Vehicle Technology – 10% from ATM & Operations)

2. **Growing competition** (including new entrants)

3. **New and ambitious goals** in ACARE SRIA
Addressing Challenges in Horizon 2020

• Creating resource efficient transport that respects the environment
• Ensuring safe and seamless mobility
• Building industrial leadership in Europe

Enhancing and leveraging innovation capability across Europe, with a strong emphasis on SME participation
Clean Sky 2 Joint Technical Proposal:


June 2013

Not legally binding
Clean Sky 2 Programme Set-up

1.8b€ Total EU Funding Proposed

Vehicle IADPs
- Fast Rotorcraft
  - Agusta
  - Westland
  - Eurocopter
- Large Passenger Aircraft
  - Airbus
- Regional Aircraft
  - Alenia Aermacchi

Large Systems ITDs
- Eco-Design
  - Fraunhofer Gesellschaft
- Airframe ITD
  - Dassault – EADS-CASA – Saab
- Engines ITD
  - Safran – Rolls-Royce – MTU
- Systems ITD
  - Thales – Liebherr

Technology Evaluator (TE)
- German Aerospace Center (DLR)

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

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From Technology to Full-Scale Demonstration

Design Studies, Rig Testing, Modelling

Engine / System Demonstrators

Airframe Demonstrators

Flying Demonstrators

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Clean Sky 2 Information Day

Information on Calls for Potential Applicants

Sebastien Dubois (Clean Sky JU)
Bruno Mastantuono (Clean Sky JU)

Lisbon, 28th November 2013

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Process for the Selection of Core-Partners

Introductory Remarks

- The content of this presentation is **not legally binding and subject to changes** until the adoption of the Regulation on *Clean Sky 2* and the adoption by the Governing Board of *Clean Sky 2* of the rules for the submission of proposals, evaluation and selection of **Core-Partners (CP)**
- The selection of CP will be based on Horizon 2020 RfP (**already in force**), implementation modalities will apply at Clean Sky 2 JU level
- This presentation wish to provide a preliminary overview of the implementation modalities (**draft preliminary**)
- The proposed content/approach is based on the *Clean Sky JU* experience to date and the consultation with the “National States Representative Group” and the “Leaders” of the *Clean Sky 2 Programme Proposal*
State of play of the **Clean Sky 2 Proposal of Regulation**

- Commission proposal published on 10 July 2013 (Innovation Package)
- Council negotiations in the “Research Working Party”
- Presidency compromise proposal sent to Coreper on 15 November 2013
- “General Approach” of the Council expected at the Competitiveness Council of 2-3 December 2013
- EP Report to be approved by ITRE Committee on 09 January 2014
- EP Report to be approved by EP Plenary in February 2014
- **Council adoption expected in March 2014**

**Governing Board of Clean Sky 2 JU to be convened in March/April 2014:**
- Adoption of the “Work Plan”
- Adoption of the rules for submission of proposal, evaluation and selection of Core-Partners
- Adoption of other legal documents (Fin Rules, model GA and CA)

Not legally binding
Clean Sky 2 Regulation

EC proposal

Council Negotiations

EP Report

Council Adoption

CS2 Governing Board Adoption of Work Plan, Rules, legal docs

Programme Start

Call Launch

Not legally binding
Members other than the EU

- **Leaders**
  - Co-Leader of one of the ITDs, IADPs or Transverse Activities
  - Listed in Annex II of Reg.

- **Other members**
  - **Associates**: listed in Annex II, based on list in Regulation 71/2008, selected for whole duration of **Clean Sky (1)**
  - **Core-Partners**: selected through open and compet. calls for strategic tasks

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**Other participants** (not Members):
- **Partners** selected following open and competitive calls for specific tasks

Not legally binding
The Principles for Participation (proposed)

Max. 40% of EU funding allocated up-front to Leaders

Min. 60% of EU funding open to competition:
- Potentially up to 1080m€ of EU funding in play, via open Calls
- Core Partners (Associates) becoming Members once selected
- Partners (as in CS) through Calls for Proposals (CfP)

Core Partners share of the Programme up to 30% of EU funding
- Potentially up to 540m€ of funding

Min. 30% of EU funding available for CfP (plus CfT) engagement

Academia, Research Organization and SMEs eligible throughout CS2 via CfP and in Calls for Core Partners. Participation may also take place via suitable Clusters, where a clear value chain can be demonstrated and overall innovative impact is proven.
Core-Partners Definition and Role

- Either a single entity or consortia/clusters
- Take up strategic **long-term commitments** in the Programme
- Bring **key competences/capabilities**
- Bring technical contribution **aligned to the high-level objectives** as defined in the Technical Programme
- Have a **strategic leading role** in the coordination of a major work-package in the programme area (ITD/IADP/TA)
- Share **common goals and responsibility** in delivering the relevant High-Level Objectives
- Contribute to the **global management of demonstrators**
- Contribute with significant in-kind contributions (**5M€ or more per ITD/IADP**) – it will be a selection criterion
- **Managing Partners activities** (from definition to results)

*Not legally binding*
Tentative Planning

Core-Partner selection

1st WAVE
- Info campaign
- Call Open
- Neg’n
- GAM signature

2nd WAVE
- Call Open
- Neg’n
- GAM signature

3rd WAVE
- Info campaign
- Call Open
- GAP signature

Not legally binding
Dissemination Process of the Technical Proposal

- From 2 to 3 technical areas will be presented
- Potential applicants will be able to exchange views with the Leaders (half day sessions)
- Potential applicants will be able to present their proposed activities through a template before / after the bilateral meetings
- The CSJU will keep a record of any exchange when provided by potential applicants
- The CSJU will assess with Leaders the outcome of the consultations in view of ensuring optimisation of the programme

Core-Partners or Partners?

Check the latest news available on our website

Send your template right after your meetings to

CS2@cleansky.eu

Not legally binding
Definition of Strategic Topics (1/2)

The Technical Programme will define the context, high-level objectives of each ITDs/ IADPs and link between Strategic topics and the core-content

- Activities with a **Minimum** in-kind contribution of 5M€ (but larger where necessary) per ITD/IADP
- **Indicative budget** to be defined without any maximum
- **Topic area** initially defined by Leaders and checked/ validated by the CSJU
- **Alignment** with strategic objectives of ITDs/ IADPs
- To be **part of the WBS** of each ITDs/ IADPs

(1) The strategic topic description will define the scope of work

(2) Applicants can propose complementary content where relevant and appropriate with respect to *Clean Sky 2 Objectives*

The appropriateness and the relevance of any complementary activity will be assessed during the evaluation and will be subject to availability of funding

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The strategic topics will include:

- The company name of the Leader opening the topic
- Expected overall contribution: output, timeframe, major deliverables
- Short-medium term objectives/actions
- Competences required to run the programme and to deal with risks associated to the activity (both at ITDs/IADPs and applicant level)
- IP aspects and liability regime based on a model Consortium Agreement (tbd), in line with the principles of H2020 and the Clean Sky 2 JU Model GA (tbd)
- Confidentiality and competitive issues, additional requirements (e.g. certification) and provisions and requirements on European exploitation and dissemination

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Core-Partners shall
- prepare a proposal per strategic topic
- submit a proposal matching the scope of a strategic topic
- detail the work plan, financial contribution, capabilities (both technical and managerial) and compliance with the strategic topic
- Detail their route for exploitation and dissemination

Core-Partners can
- propose activities going beyond the scope of the Strategic Topic while aligned with the Clean Sky 2 Objectives.

The benefits of these activities shall be duly explained with reference to the work break-down structure of the Technical Programme

Not legally binding
- CP will be selected by the JU through an open transparent and competitive process
- Proposals will be evaluated based on H2020 RfP and the Clean Sky 2 JU rules for submission of proposals, selection, evaluation
- Proposals will be evaluated against H2020 criteria:
  - Excellence
  - Impact
  - Implementation

- The evaluation will be managed by the CSJU
- The evaluation will be performed by independent experts
- A ranking list will be drawn up

Not legally binding
Negotiation Phase

- The negotiation starts after approval of the evaluation
- The selected CP of the same ITD/IADP will start the negotiation at the same time and jointly
- CSJU, Leaders of the platform and the selected CP will be involved in the negotiation
- The negotiation will deal with the following aspects:
  - detailed definition of the CP proposal across the 1st years of activities (deliverables, milestones, technical description of work packages, ...)
  - Definition of roles and contributions, and optimisation of the WBS
  - IP aspects and accession to the Grant Agreement
  - set up of the management structure within the ITDs/ IADPs
  - ...

The negotiation will end up with the signature and the accession to the Grant Agreement as ”Member”
Conditions for Participation as Core-Partner

Who can apply as Core-Partner?

Same eligibility criteria and conditions for participation and funding as H2020 Rules for Participation (!)

- **Any specificity for Clean Sky 2 (?)**
  - According to H2020 RfP, minimum and additional conditions may be set in the Work Plan when justified
  - The Clean Sky JU wishes to apply the “mono-beneficiary” derogation to allow single entities to apply as CP or Partners as already in force in Clean Sky (derogation subject to a Delegated Act procedure)

- **Applications can be submitted by:**
  - Single entities (SMEs, large industries, ROs, Academia etc.)
  - Consortia of entities
  - Clusters of SMEs/ROs/Academia

Not legally binding
Funding rate will be defined in the Work Plan in accordance with H2020 funding rate “up to 100% of direct costs + 25 flat rate for indirect costs”

For Members (Leaders and CP): funding rate is under discussion, it may be set in a way as to reach a 50/50 balance between public and private contributions.
Conditions for Participation of Clusters

Depending on the legal structure and applicable national law different forms of participation may be envisaged:

1. The **Cluster organization** exists as legally established entity according to national or EU law. It proves to be legally entitled to enter into contractual commitments and to sign the GA and the funding agreement vis-a-vis the JU on behalf of its members.

2. The cluster **cannot be represented by an organization not able to enter into contractual commitments**. The JU shall carry out a risk assessment and check of the operational, financial capacity and liability regime of the cluster. The **JU may recognize the cluster as sole applicant** provided that its internal agreements, management structure is well defined and ensures sound management. Its members would be the legal entities considered part of the applicant.

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3. The cluster **cannot be represented by a cluster organization.** It may participate and receive EU funding not as full Member but as “**third party**” without signing the GA (!) less administrative requirements. The third party and its activities would be identified in the GA, it would sign an Annex to the GA laying down the terms of its participation and its financial liability. The conditions under Article 19.5 of H2020 Rules for Participation shall be met.

4. The **individual members** of a cluster such as SMEs, research organisations, Academia or a group of them, **apply singularly** to become participants in **Clean Sky 2 JU** sharing results with other cluster members, provided that they fulfil the eligibility criteria and respect the rules for participation.
Conditions for Participation of Clusters

- **The different 4 options** need to be assessed in the light of the H2020 model GA (under approval), the structure of the *Clean Sky 2 JU* call for CP and the future *Clean Sky 2* model GA (!)

- **Recommendations:** the composition, management structure, functioning of the Cluster and its operational, financial capacity and liability regime shall be duly explained and documented in the application, these aspects will be:

  - evaluated by the experts;
  - negotiated with the JU and the Leaders

  **Clusters will have to make sure that the combined capabilities of individual members will definitely result in an organisation capable to develop activities in an effective way.**
Q&A
Thank you for your attention!