



L'Aviation dans 'Horizon2020' et la JTI 'CleanSky' 1 & 2



Forum ASTech
27 janvier 2014
CNES, Paris
Patrice DESVALLEES
DGAC/DTA

Informations générales

Où trouver l'information sur H2020, CleanSky.. ?

- Toutes les informations sur les appels Horizon2020 sont disponibles en ligne



H2020 Participants portal :

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

Outil "Search by topic or keyword" (ex: aviation) :

http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/search/search_topics.html

EC Transport infoday du 18 DEC (Bruxelles, Charlemagne building) :

<http://ec.europa.eu/research/transport/events/infoday2013/>

Présentation TR/Aviation du 18 DEC (CE, Rémy Denos) :

http://ec.europa.eu/research/transport/events/infoday2013/documents/3_r_denos_aviation_topics_en.pdf



Les appels Horizon2020

➤ Le calendrier H2020 :

- Un « programme spécifique » sur 7 ans -2014-2020
- Un programme stratégique sur 3 ans : 2014 – 2017
- Des programmes de travail pluriannuels sur 2 ans
 - Textes proposés par la Commission
 - Discuté avec les États membres via les comités de programme
- Attention : les éléments 2015 ne sont qu'indicatifs à ce stade

2014	2015	2016	2017	2018	2019	2020
Programme stratégique						
Programme de travail 1		Programme stratégique				
		Programme de travail 2		Programme stratégique		
				Programme travail 3		Programme de travail 4?

Calendrier appels H2020-TR

CONDITIONS FOR THE 'MOBILITY FOR GROWTH' CALL

Publication date: 11/12/2013

Deadlines²⁶²⁷:

Topics	Dates	
MG.1.4, MG.1.6, MG.1.7, MG.1.8(CSA part) MG.9.2, MG.9.3, MG.9.4, MG.9.7	Single stage 27/03/2014 at 17.00.00 Brussels time	
MG.7.2(CSA part) MG.8.1(CSA part), MG.8.2(CSA part) MG.9.6		Single stage 28/08/2014 at 17.00.00 Brussels time
MG.1.8(RIA part) MG.9.1, MG.9.5	Single stage [31/03/2015 at 17.00.00 Brussels time]	
MG.5.5(CSA part) MG.8.3, MG.8.4(CSA part)		Single stage [27/08/2015 at 17.00.00 Brussels time]
MG.1.1, MG.1.3, MG.1.5 MG.2.1, MG.2.2, MG.2.3 MG.3.1, MG.3.2, MG.3.3, MG.3.4, MG.3.5 MG.4.1, MG.4.2, MG.4.4 MG.5.1, MG.5.2, MG.5.3 MG.6.1, MG.6.2 MG.7.1, MG.7.2(RIA part) MG.8.1(RIA part), MG.8.2(RIA part)	First stage 18/03/2014 at 17.00.00 Brussels time	Second stage 28/08/2014 at 17.00.00 Brussels time
MG.1.2 MG.3.6	First stage [31/03/2015 at 17.00.00	Second stage [27/08/2015 at 17.00.00

Où trouver l'information sur H2020, CleanSky.. ?

Informations sur la RDT Aviation en Europe

Nouvelle vision aviation Flightpath2050 (S. Kallas, M Geoghegan-Quinn) :
<http://www.acare4europe.org/sria/flightpath-2050-goals>



ACARE : <http://www.acare4europe.org/>

Agenda SRIA : <http://www.acare4europe.org/sria/exec-summary>

Site de la JTI 'CleanSky' : <http://www.cleansky.eu/>

CleanSky2 factsheet:

http://ec.europa.eu/research/press/2013/pdf/jti/clean_sky_2_factsheet.pdf



CleanSky Call n°16 : http://ec.europa.eu/research/participants/portal/doc/call/fp7/sp1-jti-cs-2013-03/1590153-ct-cs-2013-03_en.pdf



Où trouver l'information sur H2020, CleanSky.. ?

- Portail français Horizon2020 du Ministère de la Recherche (MESR) :

<http://www.horizon2020.gouv.fr/>



Sur les transports :

<http://www.horizon2020.gouv.fr/pid29771/transports.html>

Présentations de la Journée nationale Défi sociétal « Transports intelligents, verts et intégrés » du 2 décembre 2013 :

<http://www.horizon2020.gouv.fr/cid75650/compte-rendu-de-la-session-nationale-d-information-horizon-2020-dediee-aux-transports-intelligents-verts-et-integres.html>

Où trouver de l'aide ?

➤ Le consortium PCN H2020-Transport & Aviation :

Pilotes du consortium PCN transport :

IFFSTAR : Patrick Malléjacq: patrick.mallejacq@ifsttar.fr (☎ : 01 81 66 80 28)

ou Marie-Françoise Sherratt-Roux: marie-francoise.sherratt@ifsttar.fr

ou co-pilote MESR : frederick.getton@recherche.gouv.fr

PCN pour l'aéronautique et le transport aérien (y compris CleanSky) :



Thilo Schoenfeld [Aerospace Valley] :

schoenfeld@aerospace-valley.com

Délégation FR au comité de programme H2020-Transport :

frederick.getton@recherche.gouv.fr , Michel-louis.Pasquier@developpement-durable.gouv.fr , Patrice.Desvallees@aviation-civile.gouv.fr (exp. Aviation),
Emmanuel.clause@finances.gouv.fr (exp. MRP)

Où trouver de l'aide ?

Autres appuis pour répondre au PCRDT « Horizon 2020 » :

Le PCN 'Affaires juridiques et financières',

<http://www.horizon2020.gouv.fr/cid73975/le-point-contact-national-affaires-juridiques-financieres.html>

Le PCN 'PME'

<http://www.horizon2020.gouv.fr/cid73956/le-point-contact-national-pme.html>

Le PCN 'Accès au financement à risque'

<http://www.horizon2020.gouv.fr/cid73962/le-point-contact-national-acces-financement.html>

- **Les pôles de compétitivité,**
- **Le réseau EEN 'Entreprises Europe' / Plus de 500 points de contact, 44 pays de l'UE, services aux P.M.E.,**
- **En France, Chambres de Commerces, locales et régionales,**
- **les ARI 'Agences Régionales d'Innovation',**
- **les délégations régionales de BPI-France,**
- **les structures de transfert...**



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CleanSky

CleanSky – Enjeux et objectifs de haut niveau

Les enjeux de l'Initiative Technologique Conjointe 'CleanSky' :

- Permettre à l'aviation de répondre aux défis sociétaux (environnement, sécurité & sûreté, mobilité) et renforcer sa compétitivité (dans le contexte d'une concurrence mondiale exacerbée, et nouvelles ambitions BRICJ)
- Poursuivre le développement du leadership technologique de l'aviation européenne (ultra-verte et efficace)
- Développer et accélérer la maturation et la validation des technologies de rupture nécessaires au développement durable de l'aviation, en en réduisant son impact sur l'environnement.
- Mettre en œuvre une partie importante de l'agenda SRIA de la plate-forme technologique ACARE (ETP).
- Importante valeur ajoutée européenne : Créer de nouvelles opportunités de marché et de nouveaux emplois en Europe

Le PPP 'CleanSky' s'organise autour de :

- 3 plates-formes de démonstration technologique (ITD) « véhicule »
- 3 ITD transverses (moteurs, systèmes, Eco-Design)
- 1 évaluateur de technologie



CleanSky – Des défis techniques ambitieux

L'efficacité énergétique – la consommation de carburant et les émissions de CO₂ - de l'aviation ont été améliorées de 80% au cours des 5 dernières décennies, il faut continuer l'effort dans la durée, car la R&T aéronautique ne porte ses fruits que sur le long terme.

Towards an Ultra-Green Aviation

Reduce perceived external noise by

- 50% by 2020
- 65% by 2050

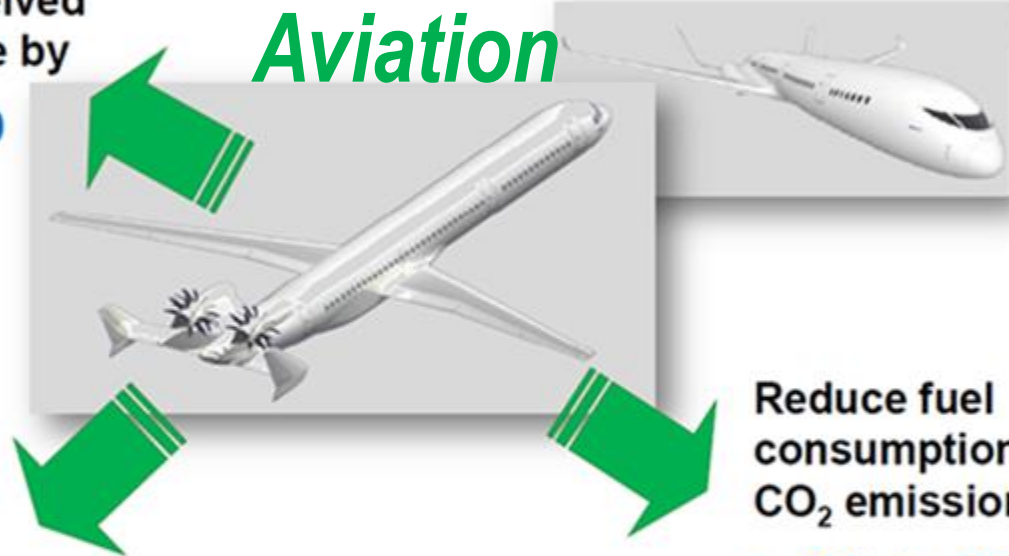
Reduce NO_x emissions by

- 80% by 2020
- 90% by 2050

Reduce fuel consumption and CO₂ emissions by

- 50% by 2020
- 75% by 2050

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



CleanSky – Un modèle de JTI à poursuivre

Le modèle CleanSky de JTI bi-partite permet de **mobiliser une masse critique** de ressources, sur le long terme, autour de la réduction des nuisances du transport aérien : Cela donne la **visibilité multi-annuelle** dont a besoin ce secteur très innovant à longs cycles de R&I (20 ans).



Les PPP 'CleanSky' et CS2 suivent une **démarche intégrée et efficace** autour d'objectifs collectifs, et où les échanges entre les différents acteurs (industrie, PME, organismes de recherche, universités) sont favorisés. Le pilotage industriel cohérent, la continuité sur le long terme, la flexibilité ainsi que l'adaptabilité des travaux en fonction des résultats, permettent une plus grande efficacité dans l'emploi des ressources du PCRD. Cela **évite la fragmentation de l'effort de recherche** sur de plus petits projets de plus courte durée, ces derniers ne pouvant permettre un emploi des ressources aussi efficace, souple, continu et ciblé que dans la JTI.

'CleanSky' fonctionne aujourd'hui à plein régime, se révèle être un **succès avec de nombreux résultats** et nombreux démonstrateurs technologiques.

- CS regroupe aujourd'hui **plus de 500 partenaires sélectionnés** via des appels à propositions (15 appels déjà lancés aujourd'hui), et **CS2 devrait accueillir plus de 800 partenaires**
- parmi les partenaires : **40% sont des PME et 50% de nouveaux arrivants** (n'ayant jamais participé auparavant à des projets européens). **21% Academia, 11% ROs ...**



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Call n°16 de CleanSky

Appel CFP n°16 de CleanSky

CFP : Call Identifier = SP1-JTI-CS-2013-03 :

Publication de l'appel : 19 December 2013

➤ Budget: € 23 655 000

➤ 30 Topics pour 3 ITD : SAGE, SFWA, SGO

➤ Deadline Date: 03 April 2014 at 17:00:00 (Brussels local time)

➤ Evaluations (indicative): 12-16 May 2014

➤ Start of negotiations (indicative): 19 June 2014

➤ Final date for signature of GA by Partner: 11 July 2014

➤ Final date for signature of GA by Clean Sky JU: 31 July 2014

Appel CfP n°16 de CleanSky



Call text : http://ec.europa.eu/research/participants/portal/doc/call/fp7/sp1-jti-cs-2013-03/1590153-ct-cs-2013-03_en.pdf

De nombreuses autres informations sont disponibles sur :
<http://www.cleansky.eu/content//homepage/calls>

Additional documents, user guide, Q&A .. :
<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/fp7/calls/sp1-jti-cs-2013-03.html>

Looking for partners : <http://www.cleansky.eu/content/page/looking-partners>

Appel CfP n°16 de CleanSky

9 topics pour l'ITD 'SAGE' (extrait du 'call text', page 8)

Identification	ITD - AREA - TOPIC	topics	VALUE (€)	MAX FUND (€)
JTI-CS-SAGE	Clean Sky - Sustainable and Green Engines	9	9.750.000	7.312.500
JTI-CS-SAGE-01	Area-01 - Open Rotor Demo 1		0	
JTI-CS-SAGE-02	Area-02 - Open Rotor Demo 2		2.900.000	
JTI-CS-2013-03-SAGE-02-037	Innovative instrumentation for rotating gauges		350.000	
JTI-CS-2013-03-SAGE-02-038	Effect of tolerance variation in high power density gears		600.000	
JTI-CS-2013-03-SAGE-02-039	High Speed Turbine Powder Hipping Casing		900.000	
JTI-CS-2013-03-SAGE-02-040	Non-intrusive Turbine Blade measurements		1.050.000	
JTI-CS-SAGE-03	Area-03 - Large 3-shaft turbofan		1.750.000	
JTI-CS-2013-03-SAGE-03-024	Electric Pump for Safety Critical Aero engine applications		1.750.000	
JTI-CS-SAGE-04	Area-04 - Geared Turbofan		0	
JTI-CS-SAGE-05	Area-05 - Turbohaft		0	
JTI-CS-SAGE-06	Area-06 - Lean Burner		5.100.000	
JTI-CS-2013-03-SAGE-06-008	Instrumentation Capability for Accelerated Lean Burn development		2.150.000	
JTI-CS-2013-03-SAGE-06-009	Advanced methods for prediction of lean burn combustor unsteady phenomena		950.000	
JTI-CS-2013-03-SAGE-06-010	Smart methods for lean burn injector design		500.000	
JTI-CS-2013-03-SAGE-06-011	Design methods for accurate combustor wall temperature		1.500.000	

Appel CfP n°16 de CleanSky

10 topics pour l'ITD 'SFWA'

JTI-CS-SFWA	Clean Sky - Smart Fixed Wing Aircraft	10	7.615.000	5.711.250
JTI-CS-SFWA-01	Area01 – Smart Wing Technology		1.200.000	
JTI-CS-2013-03-SFWA-01-054	MEMS Accelerometer – Miniaturisation of the analog electronics in ASIC(s)		800.000	
JTI-CS-2013-03-SFWA-01-055	Miniaturization of digital processing function for a MEMS pendulous accelerometer		400.000	
JTI-CS-SFWA-02	Area02 - New Configuration		1.845.000	
JTI-CS-2013-03-SFWA-02-044	NLF Wing High Speed Performance Test		1.500.000	
JTI-CS-2013-03-SFWA-02-045	Camera Development for In-Service Monitoring of LE Contamination		145.000	
JTI-CS-2013-03-SFWA-02-046	In-service monitoring of Leading Edge Contamination and Damage		200.000	
JTI-CS-SFWA-03	Area03 – Flight Demonstrators		4.570.000	
JTI-CS-2013-03-SFWA-03-015	Jigs and Fixtures for Assembly of the Laminar Wing at the "BLADE" Flight Test Demonstrator Final Assembly Line		900.000	
JTI-CS-2013-03-SFWA-03-016	Wing Tooling for the BLADE Flight Test Demonstrator Final Assembly Line		300.000	
JTI-CS-2013-03-SFWA-03-017	In-Flight Local Surface Deformation Measurements by Means of Reflectometry and Shadow Casting		640.000	
JTI-CS-2013-03-SFWA-03-018	Design, Manufacturing, Qualif.& Assy of an improved NLF Wing LE & Upper Cover Flight Test Article		2.200.000	
JTI-CS-2013-03-SFWA-03-019	Miniaturized remote acquisition unit for optical sensors		530.000	

Appel CfP n°16 de CleanSky

11 topics pour l'ITD 'SGO'

JTI-CS-SGO	Clean Sky - Systems for Green Operations	11	6.290.000	4.717.500
JTI-CS-SGO-01	Area-01 - Definition of Aircraft Solutions and exploitation strategies		0	
JTI-CS-SGO-02	Area-02 - Management of Aircraft Energy		4.640.000	
JTI-CS-2013-3-SGO-02-052	Electrical Starter / Generator disconnect system		600.000	
JTI-CS-2013-3-SGO-02-066	HVDC fuses design, development, validation and integration		800.000	
JTI-CS-2013-3-SGO-02-083	Adaptable power density coating for energy efficient heating of cockpit and cabin		1.000.000	
JTI-CS-2013-3-SGO-02-084	Optimizing power density of aircraft inverter by combining topology and PWM-patterns		500.000	
JTI-CS-2013-3-SGO-02-085	Development of a composite sleeve for spatial separation of rotor and stator of an electrical motor		300.000	
JTI-CS-2013-3-SGO-02-086	Development of actuator components made by alternative metal injection molding (MIM) process		200.000	
JTI-CS-2013-3-SGO-02-087	Technology development and fabrication of high-temperature high-frequency capacitors for power switch integration		440.000	
JTI-CS-2013-3-SGO-02-088	Accelerated Life Testing of Electrical Motor Drives		800.000	
JTI-CS-SGO-03	Area-03 - Management of Trajectory and Mission		200.000	
JTI-CS-2013-3-SGO-03-027	Provision of a cross platform development tool suite for high performance computing on tablet platforms		200.000	
JTI-CS-SGO-04	Area-04 - Aircraft Demonstrators		1.450.000	
JTI-CS-2013-3-SGO-04-006	Thermal Mock-ups for Thermal Management of a Ground Integration Test Rig		1.200.000	
JTI-CS-2013-3-SGO-04-010	Air Distribution assembly for EECS flight test demonstration		250.000	
JTI-CS-TEV	Clean Sky - Technology Evaluator	0	0	0,000
		topics	VALUE	FUND
		totals 30	23.655.000	17.741.250

Appel CfP n°16 de CleanSky

Q&A : All questions regarding the topics published in this Call can be addressed to:

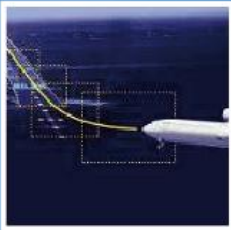
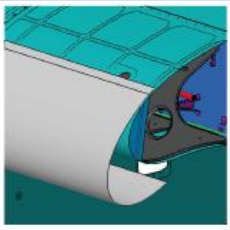
info-call-2013-03@cleansky.eu

- Questions received until 28 February 2014 will be considered.
- A 1st version of the Q/A document will be released by 14 February 2014.
- The final version of the Q/A document will be released by 14 March 2014.

JU-Teleconference on Q&A on February 7th 2014 at 10.00 AM (Brussels time) dedicated to three SGO topics

1. JTI-CS-2013-3-SGO-02-083 : Adaptable power density coating for energy efficient heating of cockpit and cabin
2. JTI-CS-2013-3-SGO-02-088 :Accelerated Life Testing of Electrical Motor Drives
3. JTI-CS-2013-3-SGO-04-006 : Thermal Mock-ups for Thermal Management of a Ground Integration Test Rig

The software has a limit on the number of participants (limit 25), people that are interested to participate are kindly requested to send a mail to Raffaele.Donelli@cleansky.eu before 13.00 AM (Brussels time) February the 5th .



Innovation Takes Off

www.cleansky.eu



Clean Sky 2 Information Forum

Présentation générale de CLEAN SKY 2
et de l'état d'avancement de sa préparation

Patrice Desvallées

Délégation Générale pour l'Aviation Civile

Présentation AsTECH, 27 janvier 2014



Sommaire

- Vision Globale
- Les 6 plateformes de démonstration
- Etat d'avancement de la préparation
- L'ouverture aux partenariats

Clean Sky 2, en général

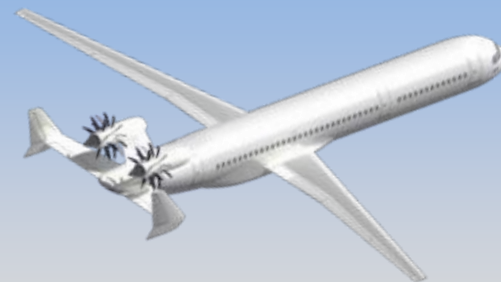
cs2@cleansky.eu



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

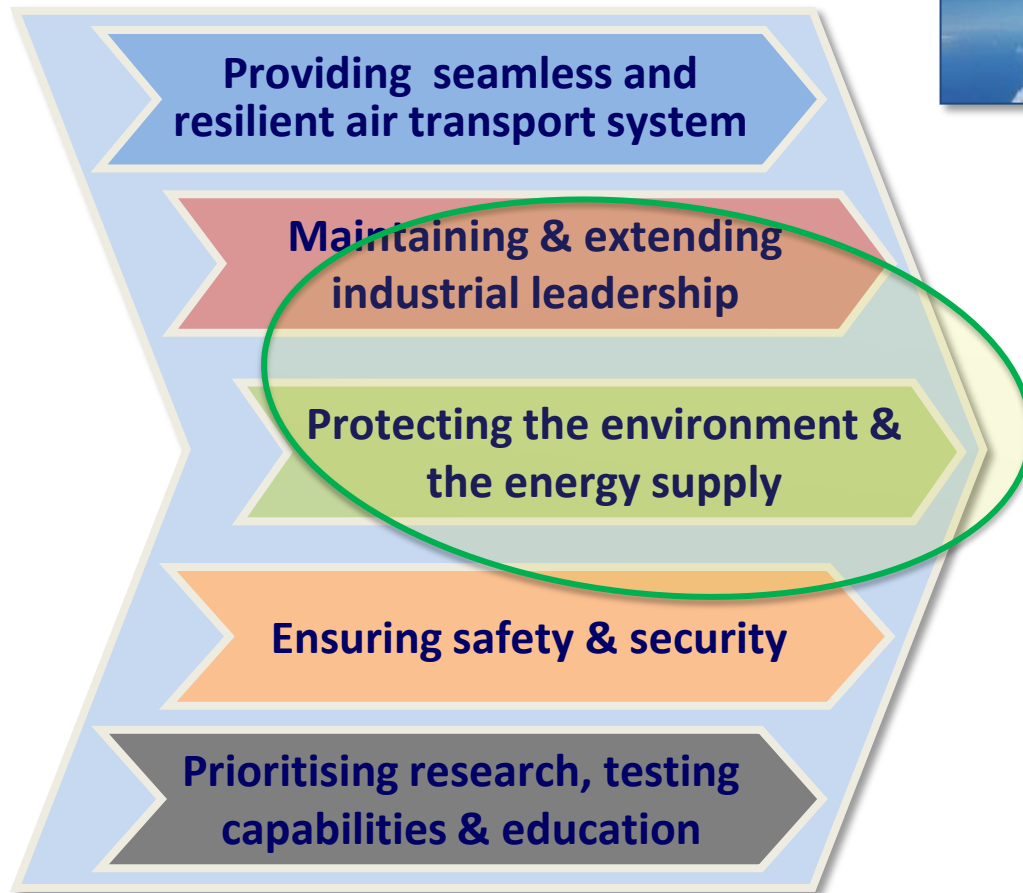


- On track in important gains towards the environmental objectives
- Around 75% of the work committed or achieved
- Approaching 600 participants, of which approx. 15% SMEs and 27% Academia/ROs

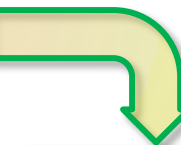
New Frontiers beyond *Clean Sky*

- 1. Bridging the gap: FP7 & Clean Sky end well before 2020, the reference date for the “ACARE SRA1 Goals”**
 - **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 CO₂ (ACARE: 40% from Vehicle Technology – 10% from ATM & Operations)
- 2. Growing competition (including new entrants)**
- 3. New and ambitious goals in ACARE SRIA**

Looking Towards 2050



Strategic Research and Innovation Agenda towards 2050



*The case for **Clean Sky 2**: continuation and extension of the current programme*

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:



Joint Technical Proposal



The European Aeronautical Industry's proposal for the continuation and extension of the *Clean Sky* Joint Technology Initiative with a *Clean Sky 2* Programme under the European Union's *Horizon 2020 Framework Programme for Research and Innovation*.

June 2013

Not legally binding



From Technology to Full-Scale Demonstration

Design Studies, Rig Testing, Modelling

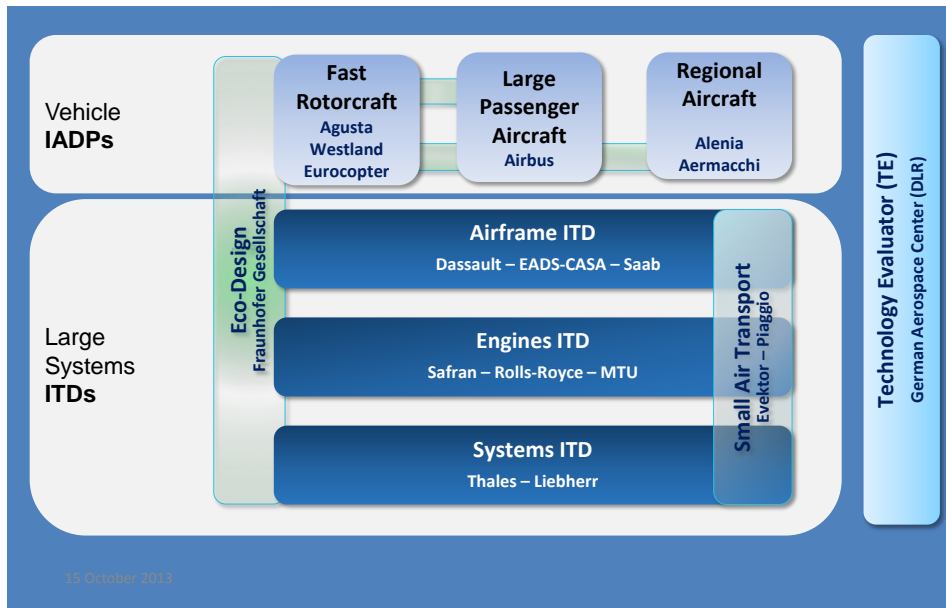
Engine / System Demonstrators

Airframe Demonstrators

Flying Demonstrators



Clean Sky 2 is a Joint Technology Initiative*



* Initiative: *in·i·ti·a·tive* [ih-nish-ee-uh-tiv, ih-nish-uh-] noun

1. an introductory act or step; leading action: *to take the initiative in . . .*
2. readiness and ability in initiating action; *enterprise: to show initiative.*

Clean Sky 2 is a long-term Programme effort – involving Technology Roadmaps, Gates, PDR/CDRs. The Programme Proposal sets out the current *best estimate* of a decade of technical content and architecture. It is a living Programme where dynamic allocation will be needed.

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

Small Air Transport
Evektor – Piaggio

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*

Etat d'avancement de la proposition

State of Play: Clean Sky 2 Proposed Regulation

- Commission proposal published on 10 Jul. 2013 (Innovation Package)
- Coreper: Agreement in Principle reached on 22 Nov. 2013
- Competitiveness Council 2-3 Dec. 2013: General Approach agreed
- EP Report to be approved by ITRE Committee on 23 Jan.2014
- EP Report to be approved by EP Plenary in Feb. 2014
- **Council adoption expected in March/April 2014**

- ***Clean Sky 2 JU GB 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)

Tentative Planning

2014

January | Febr | March | April | May | June | July →

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



Partenariats

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

Eligible Industry, SMEs, Academia, and Research Organizations can participate as Core Partners or Partners. Participation may also take place via suitable Clusters.

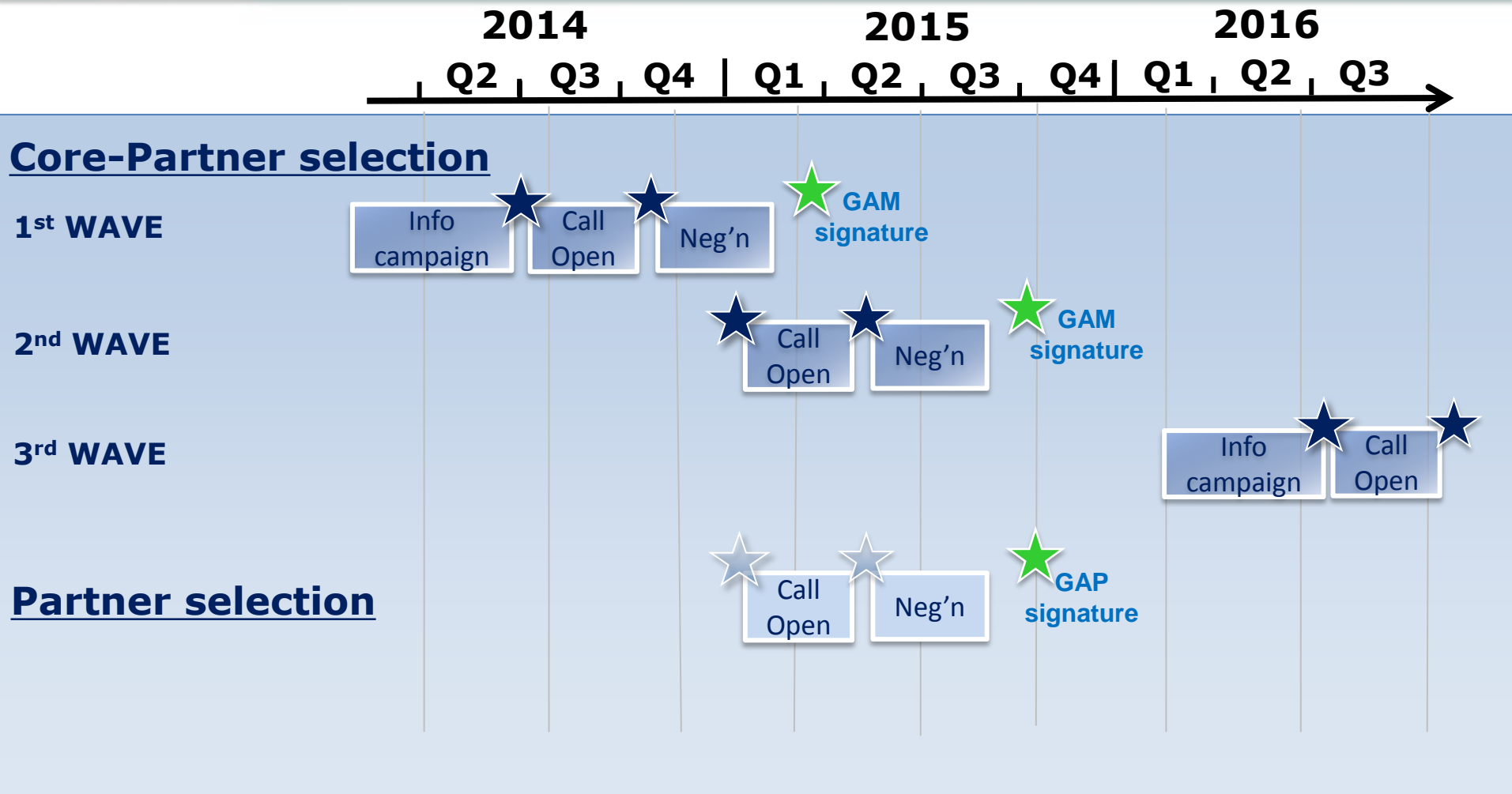
Core-Partners Definition and Role

- 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)

Evaluation of Proposals

- Core Partners 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*
- Implementing criteria*
- The evaluation will be managed by the JU
 - The evaluation will be performed by independent experts
 - A ranking list will be drawn up

Tentative Planning



Not legally binding

Q&A

Innovation Takes Off

www.cleansky.eu

Not legally binding





Thank you for your attention !

Innovation Takes Off





Disclaimer

- 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