

Clean Sky synergy with Västra Götaland And Östergötland Regions

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Innovation Takes Off

www.cleansky.eu

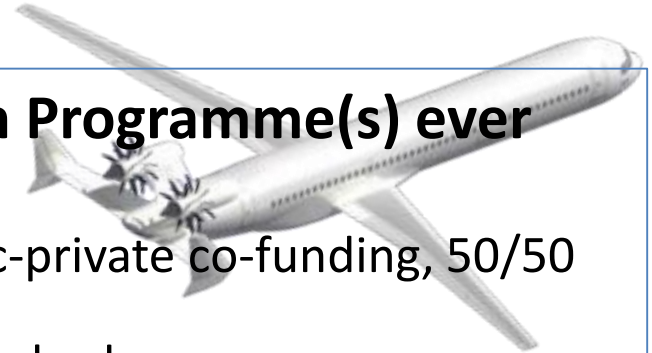
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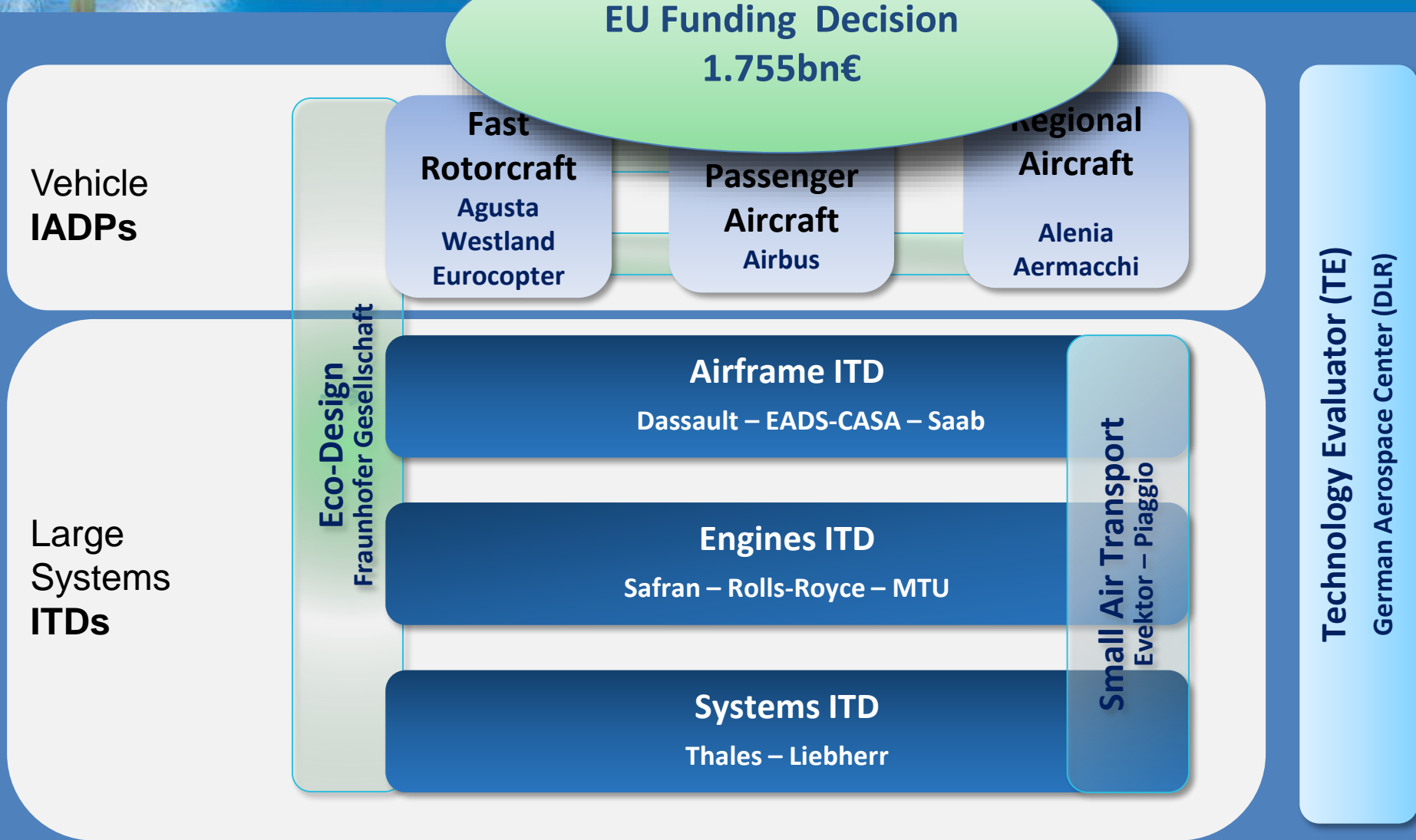
Clean Sky : Innovation takes off

Europe's largest Aeronautics Research Programme(s) ever

- A Joint Technology Initiative (“PPP”) with public-private co-funding, 50/50
- Managed by a “Joint Undertaking”, autonomous body
- Integrated technologies, industry-led, up to **full scale demonstrators**
- **Environment and competitiveness objectives**
- Clean Sky 2 programme started in 2014, with 4 B€ total funding
- Most of EU aeronautical R&I funding goes through CS2 now
- Organized through technological platforms led by the large industrial integrators



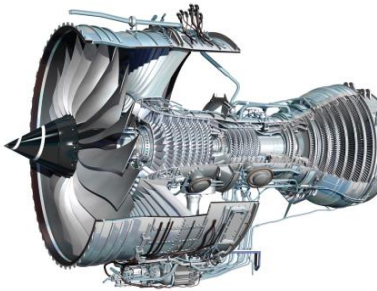
Clean Sky 2 Programme Set-up



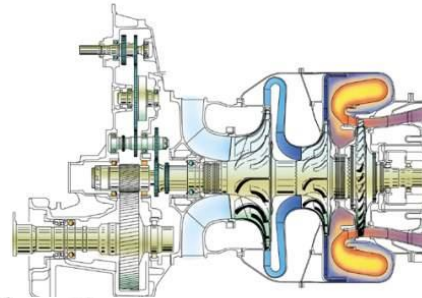
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About 80% of total EU aeronautical R&I funding

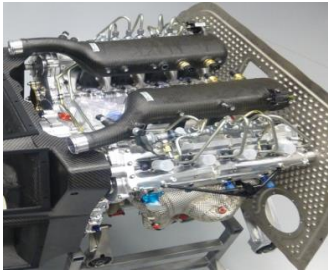
Clean Sky 1, 12/2015: Well into demonstrators



Large
Turbofan



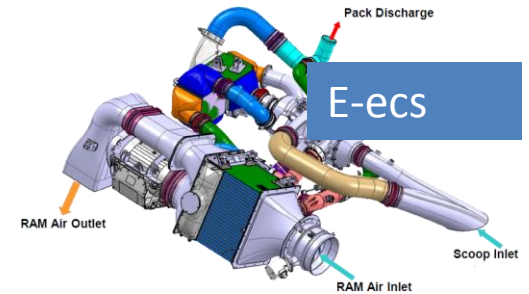
New Product emerging from
technology development:
ARRANO, selected for new
H160 helicopter



Diesel
cycle
engine



Open Rotor



E-ecs



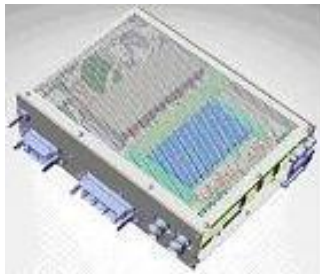
Laminar wing demo on A340



Composite fuselage
on ATR72

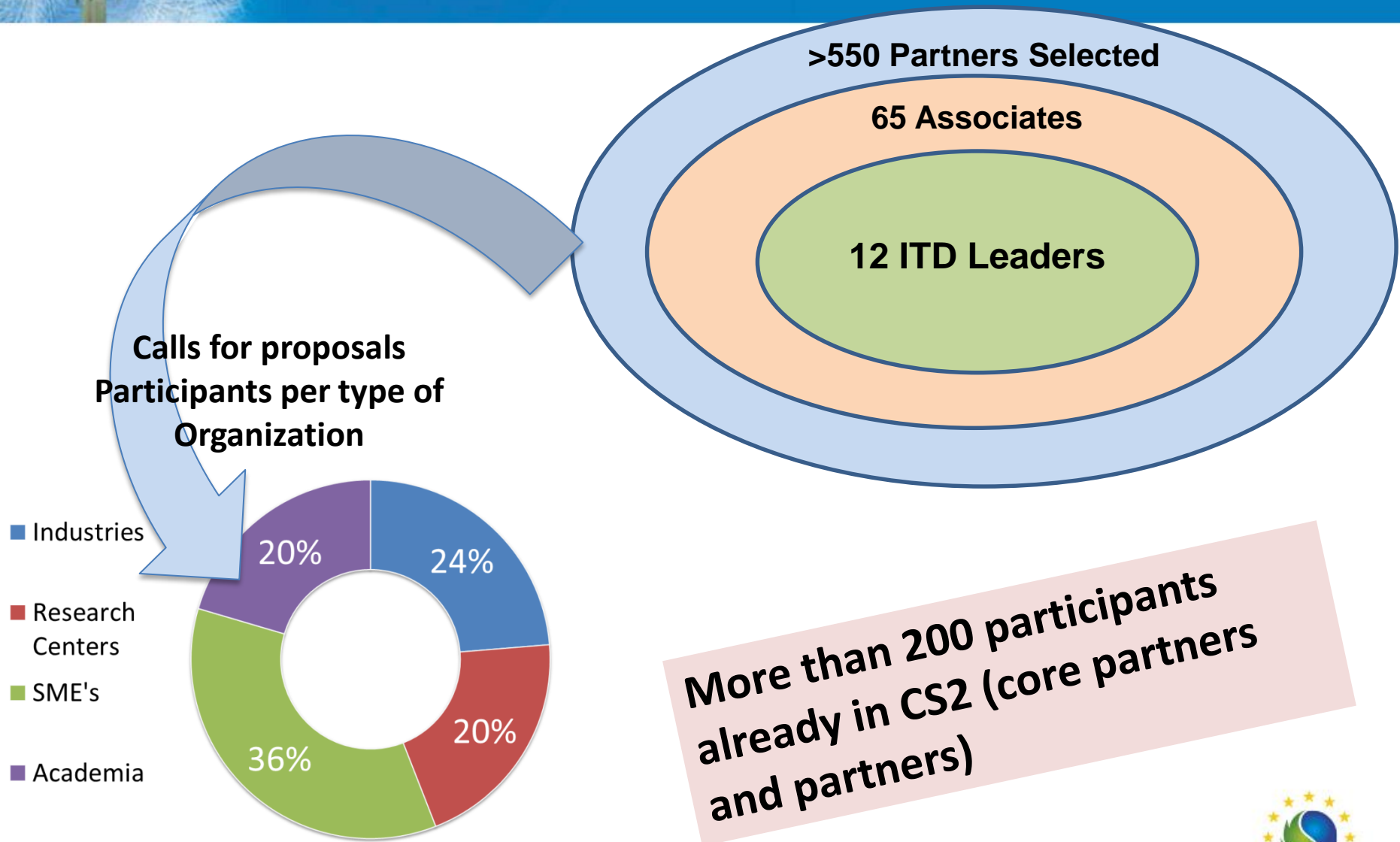
Clean Sky 2, another set of challenges

Increased emphasis on reaching actual TRL6...



...but also room for longer-term, lower-TRL projects

Clean Sky 1: an Innovation Chain of 600 entities – a wide ecosystem of SME, RO and Academia with the Industry

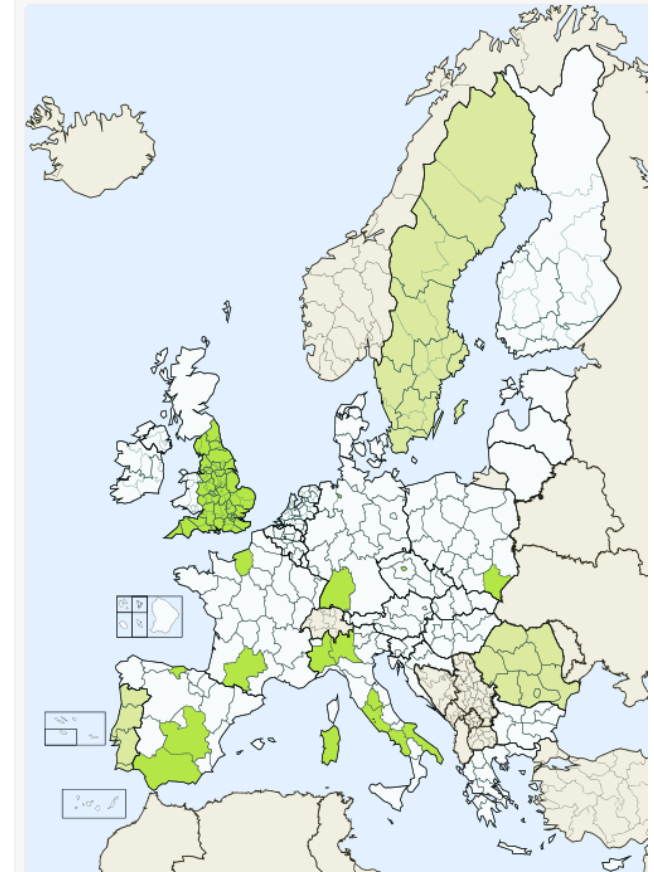


Why Synergies between Clean Sky and ESIF?

- ✓ *Combination of funding under H2020 and ESIF is now allowed and encouraged under H2020 (Article 31 of RfP) and the “Common Strategic Framework” of ESIF; **included in Clean Sky 2 Regulation***
- ✓ JTIs can be instrumental for underpinning RIS3 and stimulating credible and coordinated R&I investments
- ✓ Aeronautics is one of the best sectors of excellence in Europe in a globally growing demand (5% per year), i.e. return on public (regional) investment in innovation, *geared to the right strategic targets*, may be high

Clean Sky action on Synergies with ESIF

- A “Clean Sky label” will have an incentive effect and “guarantee of success” for MS/Regions to invest on projects, support actions, infrastructures, facilities in favour of well performed/running actions
- a “win-win” strategy for policy makers to direct R&I regional funds toward a credible, global RIS3 strategy: think global, act local
- Focus: Regions with aerospace specialisations, or transverse disciplines like materials or embedded systems





Clean Sky JU: a pragmatic approach to synergies with ESIF (1/2)

- **Being concrete**
- Answering proposals for co-operation from interested Member States (MS) and Regions with no attempt to a full coverage, with a flexible approach **and tailor-made forms of cooperation**
- Signing **MoUs** with these MS/Regions in order to set the scene and agree the general framework of a cooperation
- Implementing a **pilot phase** in 2015-2016 with test cases, then assessing the process and improving it for a “cruise phase” starting in 2017



4 scenarios proposed to Managing Authorities

- **Basic (realistic) principle: CS calls and Regional calls must be kept asynchronous** – no try to have any simultaneous / symmetric approach; this drives the mechanisms foreseen
- These synergies should be a way to emphasize bottom-up approaches from applicants / beneficiaries
- The role of Clean Sky industrial Members is essential for interfacing with the regional capabilities
- 5 high-level scenarios identified for driving the appropriate mechanisms for cooperation, to be adapted to the regional funding schemes envisaged under the OPs, rules and processes while keeping the CS Programme/calls in conformity with its own rules



5 scenarios for synergy

1. Upstream support

ESIF support for developing capabilities/skills / infrastructures of its local entities in view of planned participation to future CS calls

2. Parallel funding

Applicant to CS call (for Core Partner and CfP) proposing in parallel a separate set of ESIF activities which may be granted ESIF support

3. Sequential funding / downstream support

CS partner proposing a continuation / spin-off / amplification of a CS project

4. Thematic approach

ESIF support to complement CS Programme through definition, consistently with Regional RIS3 policy of appropriate areas / themes not addressed in CS but contributing to the overall objectives

5. “Seal of Excellence”

If appropriate for the programme, the second-ranked proposal in a Clean Sky Call (if highly scored) could be supported by Clean Sky for a separate, parallel funding by the Region (already in place with the SME instrument by EC)

State of play, as of January 2016

- 6 MoU **signed** in 2015:
 - Midi-Pyrénées (FR)
 - Andalusia (ES)
 - Romania (state level)
 - Campania (IT)
 - Catalonia (SP)
 - Flevoland (NL)
- Advanced contacts with ~ 10 other Regions
- Call for projects **launched** by Midi-Pyrénées according to scenario 4 (themes co-defined with Clean Sky JU)
- Selection of 2 projects complementary to Clean Sky made by another Region in January, according to scenario 3
- Clean Sky 2nd Call for Proposal opened the door to parallel, complementary proposals by applicants, according to scenario 2



Västra Götaland - Östergötland

Respective focus on manufacturing processes, materials, structures... fits well with Clean Sky 2 objectives

Linking with the National Level is a strong asset, not always present in other EU regions

Existence, and growth of a “local” Cluster



Let's select the best scenario(s) now for implementing the MoUs