

Developing synergies with ESIF: state of play at Clean Sky 2 JU



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Innovation Takes Off

www.cleansky.eu





Clean Sky the PPP in aeronautics

Aeronautics: a sector of excellence of Europe

- **500B € turnover** in the EU
- **530 000 jobs** – top-ranking worldwide
- **4% annual growth** of air transport – doubling of air traffic outlook
- **Global competition** (USA, Russia, China) need to act at EU level to accelerate R&I and be competitive

Clean Sky : a “Joint Technology Initiative”

- Focus on environmental targets and competitiveness for aeronautics
- Clean Sky 2 (H2020): 4 B€ total funding
- 1.8 B€ of EU funding
- 2.25 B€ of private contribution by the Members



Clean Sky - PPP in aeronautics

Clean Sky: a “Joint Technology Initiative”

- JTI crucial to develop integrated technologies, industry-led, up to full scale demonstrators (up to TRL 6)
- Main European programme for greening aviation and to support the goals of Paris Agreement COP21
- Biggest environmental benefit is coming from greening technologies and developing low-carbon fuels (Clean Sky targets are 20% to 30% of CO₂ , NO_x, noise reduction)



Clean Sky 2 Programme set-up

Vehicle
IADPs

Eco-Design
Fraunhofer Gesellschaft

**Fast
Rotorcraft**

Leonardo
Helicopters
Airbus
Helicopters

**Large
Passenger
Aircraft**
Airbus

**Regional
Aircraft**

Leonardo
Aircraft

Large
Systems
ITDs

Airframe ITD

Dassault – Airbus D&S – Saab

Engines ITD

Safran – Rolls-Royce – MTU

Systems ITD

Thales – Liebherr

Small Air Transport
Evекtor – Piaggio

Technology Evaluator (TE)
German Aerospace Center (DLR)

Addressing different technologies



Participation and rules

- Up to 40% of EU funding available to the Leaders
- At least 60% of EU funding through open calls:
 - Up to 30% for Core Partners (becoming Members of the JU)
 - At least 30% for Partners via calls for proposals
- **Meaning > 1B€ of EU funding in play**

Derogation from H020 rules on the “minimum conditions for participation” allowing single applicants as partners join a European collaboration by cooperating in the Programme with the Leaders

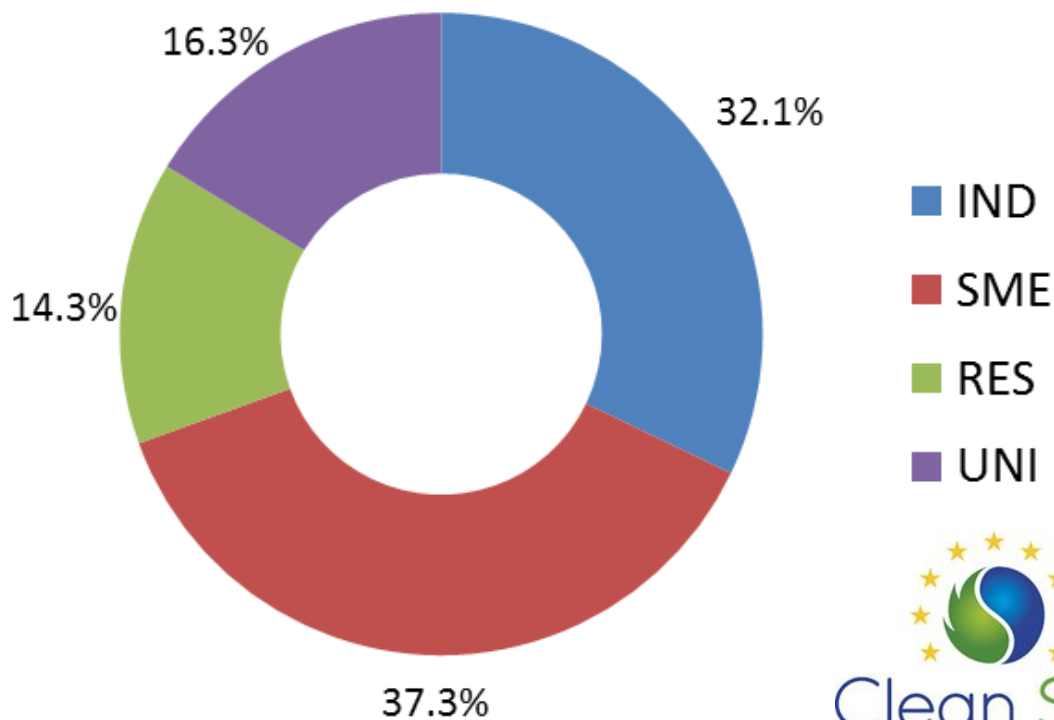
The Members bring to the Programme **additional activities linked to JTI objectives** → an incentive for MS/Regions to bring additional investments via RIS3 and National funds

Overall Participation to Date

Participations in winning proposals in open calls up to 2017

Type of Organisation	LPA	REG	FRC	AIR	ENG	SYS	TE	TOTAL
IND	59	18	28	58	41	49	0	253
SME	47	18	27	85	30	47	7	261
RES	57	14	24	69	22	40	8	234
UNI	46	20	13	49	37	20	2	187
Total	209	70	92	261	130	156	17	935

500 participants
27 countries
100 Regions



Achievements: “BLADE” demonstration 2017

“Breakthrough Laminar Aircraft Demonstrator in Europe”



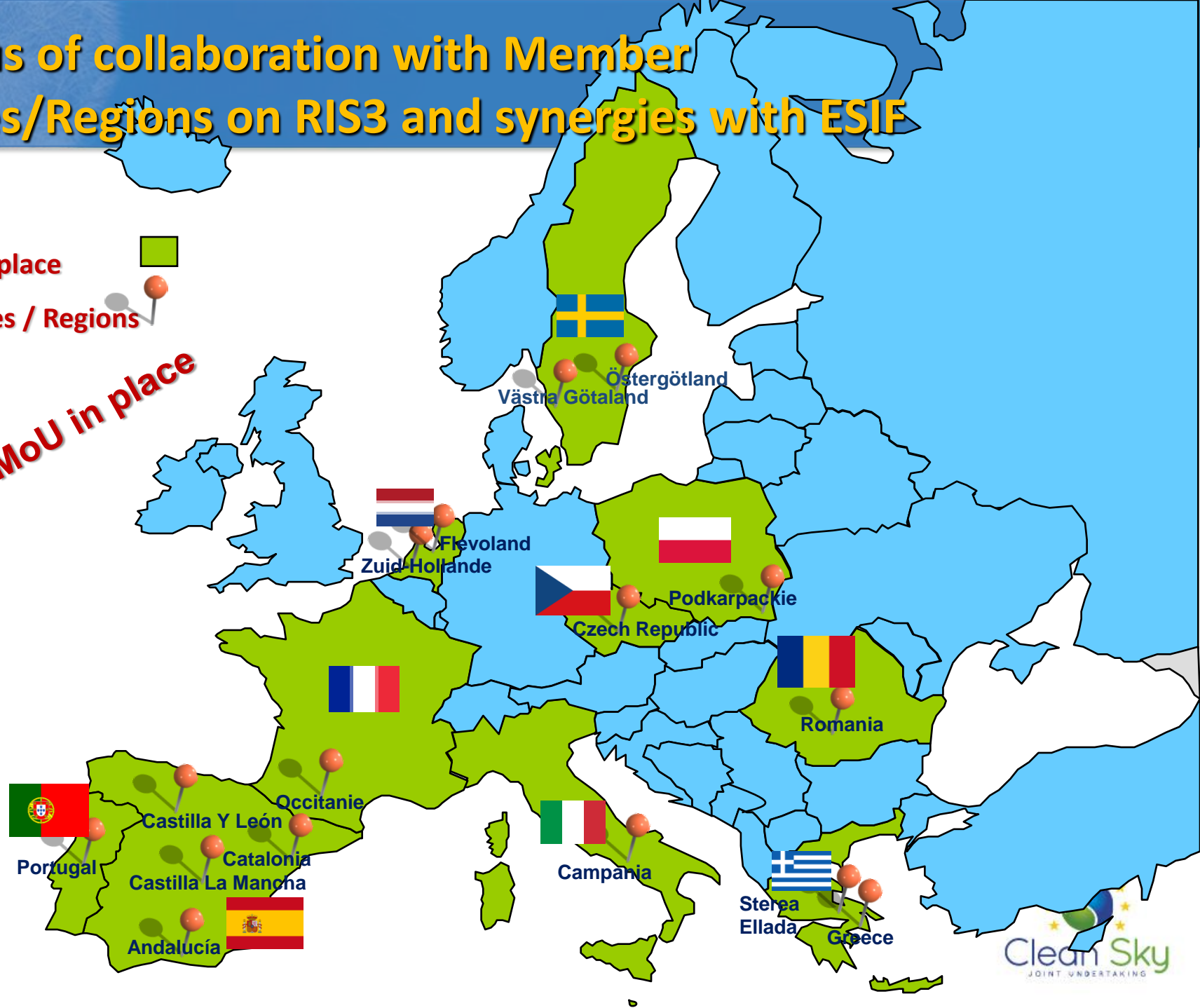
- Target: 50% reduction of wing friction to achieve 5% CO₂ emissions saving
- 10-year demonstration project of 180M€ total funding
- 21 partners from 8 countries under the leadership of Airbus

Status of collaboration with Member States/Regions on RIS3 and synergies with ESIF

MoU in place

Countries / Regions

✓ 16 MoU in place



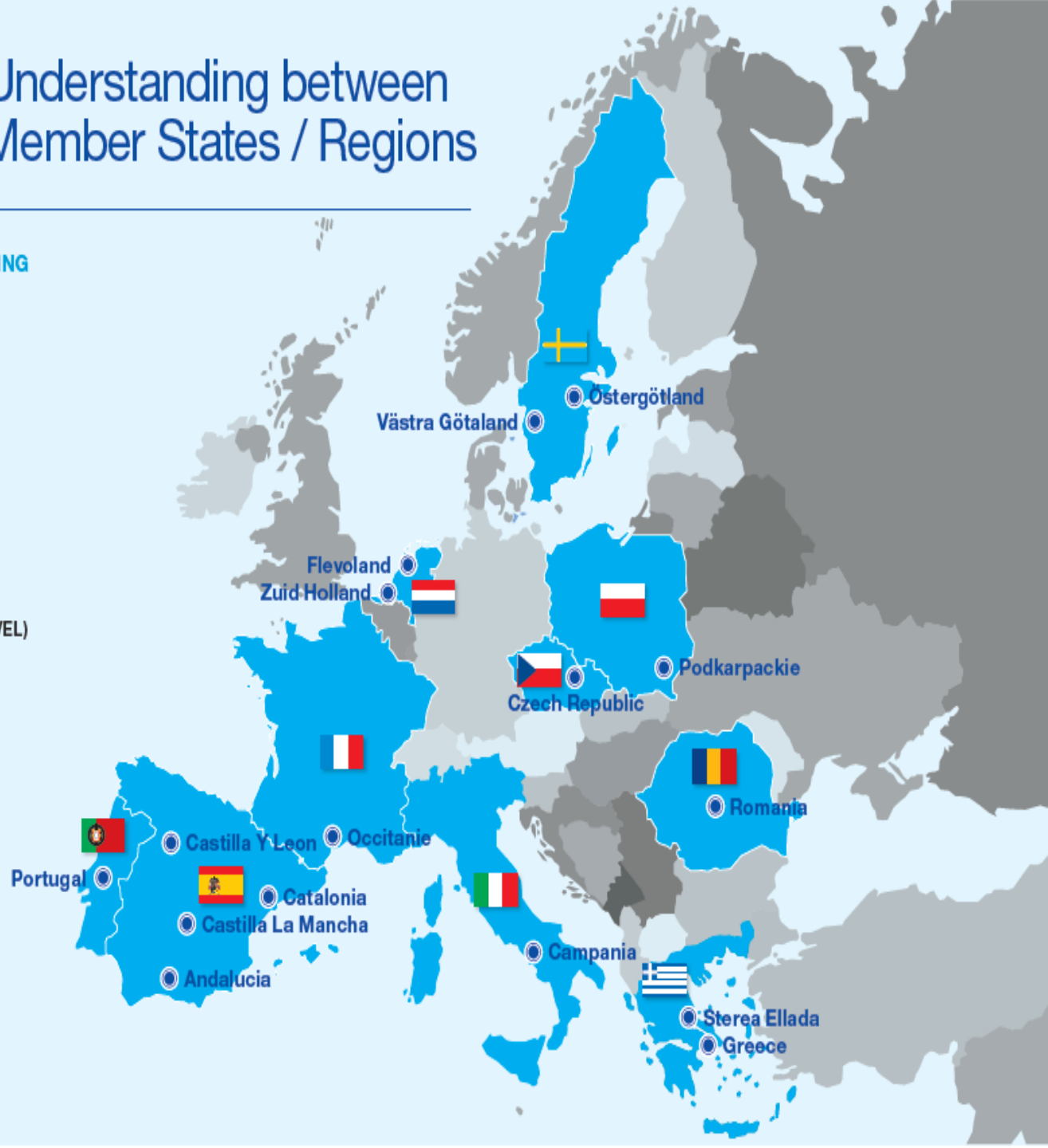
Memoranda of Understanding between Clean Sky and Member States / Regions

16 MEMORANDA OF UNDERSTANDING AT NATIONAL OR REGIONAL LEVEL

-  OCCITANIE (FR)
-  CATALONIA (ES)
-  CASTILLA LA MANCHA (ES)
-  VÄSTRA GÖTALAND (SE)
-  ÖSTERGÖTLAND (SE)
-  ROMANIA (NATIONAL LEVEL)
-  ANDALUCÍA (ES)
-  CAMPANIA (IT)
-  CZECH REPUBLIC (NATIONAL LEVEL)
-  ZUID-HOLLANDE (NL)
-  FLEVOLAND (NL)
-  PORTUGAL (NATIONAL LEVEL)
-  CASTILLA Y LEON (ES)
-  PODKARPACKIE (PL)
-  GREECE (NATIONAL LEVEL)
-  STEREA ELLADA (GR)

 MoU in Place

 Countries/Regions



Synergies with ESIF – state of play

- ✓ 16 MoU in place all delivering results (special schemes, ESIF projects, technical workshops , info days of Clean Sky calls)
- ✓ 10 Member States covered
- ✓ 4 MoU at National Level (Portugal, Romania, Czech Rep. and Greece)
- ✓ 3 MoU with EU-13 (Romania, Czech Republic and Podkarpackie in PL)
- ✓ RIS3 mapping > 50 Regions with RIS3 priorities linked to Clean Sky (e.g aeronautics, aerospace, clean mobility, advanced manufacturing etc)
- ✓ A potential for wider and deeper cooperation on RIS3 implementation and synergies with ESIF/Regional/National funds

Potential for a wider cooperation with RIS3

Many RIS3 priorities/areas (not only aeronautics) are relevant for building synergies with Clean Sky...



Scenarios for Synergies

- ✓ Upstream support (e.g enhancement of regional capabilities)
- ✓ Parallel funding (complementary activities)
- ✓ Sequential/downstream support (e.g bring projects to higher TRL)
- ✓ Thematic calls with focus on RIS3 priorities aligned to Clean Sky
- ✓ “Seal of Excellence” type – “CSJU synergy label”



SYNERGY LABEL

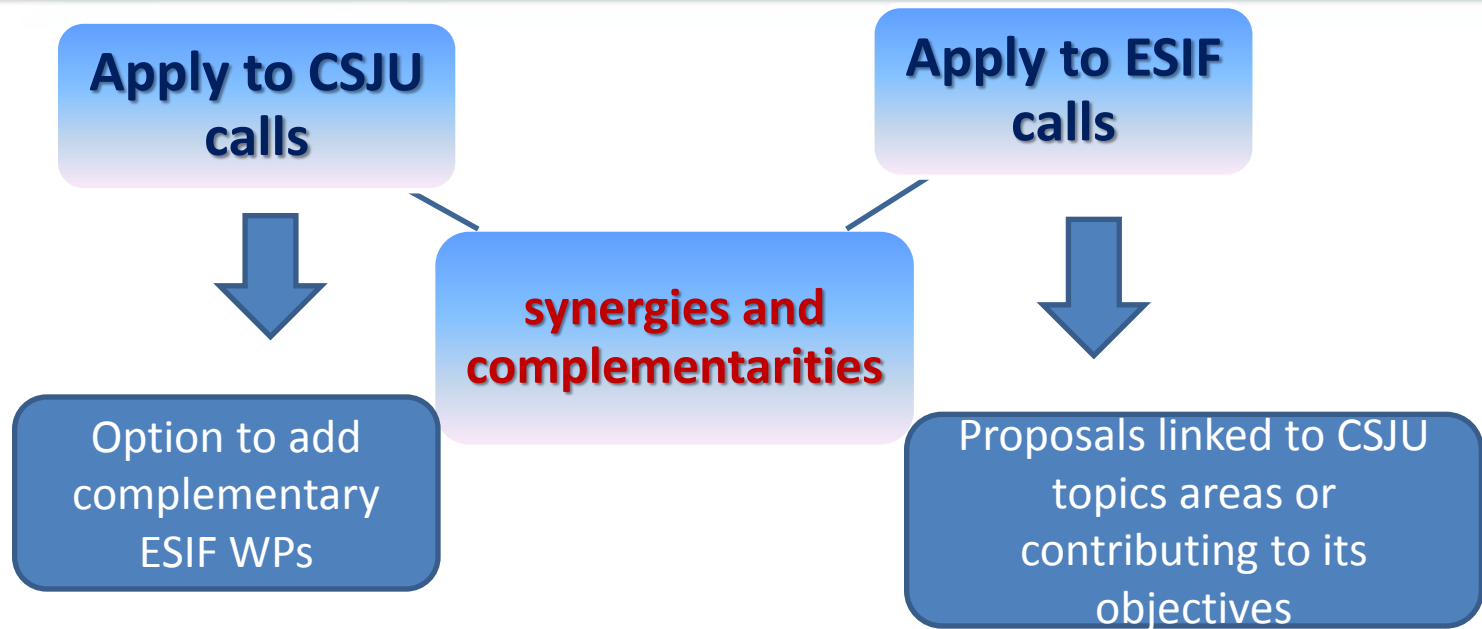
Certificate delivered by the Clean Sky 2 Joint Undertaking



Clean Sky synergies with Regions: objectives

- Develop close interactions with ESIF and contribute to underpin RIS3 efforts in aeronautics R&I and other Clean Sky/RIS3 correlated areas
- Link RIS3 priorities, stakeholders/capabilities/plans to the industrial roadmap of the largest European Programme in aeronautics
- Offer Clean Sky technical assistance in evaluating complementary projects and synergetic plans → *the Clean Sky “synergy label” certification*
- Ensure more coordination on investments in R&I in aeronautics

Objectives and the approach to synergies



- More coordination between ERDF OPs and H2020 to meet R&I challenges in aviation and enhance regional capabilities/supply chain
- More European level and targeted ESIF projects linked to Clean Sky activities
- Support via ESIF a more strategic role of regional stakeholders at “Membership” level in Clean Sky → support in bringing additional investments
- Identify and contribute to enhancing local capabilities by linking to Clean Sky
- Integration of ESIF activities in Clean Sky for more impact and market uptake

How to enagege in a cooperation MoU objectives

- Take up a bilateral commitment to work towards common objectives and to set the scene of a cooperation
- Regional analysis (RIS3, capabilities, stakeholders participation/interest in Clean Sky calls, potential to complement the Programme via ERDF/Regional funds)
- A mutual commitment to identify areas of cooperation and optimize RIS3 implementation on priorities linked to Clean Sky field of activities
- A commitment to co-design ERDF-Regional funded schemes to support complementary activities and/or capacity building actions

Examples of ESIF schemes set under the MoU

Czech Republic National Call Complementary to Clean Sky 2

- Competent Authority: Ministry of Industry and Trade (MoU party)
- Allocation of the call: 400M CZK (15,5 M Euro)
- Priorities/Areas: refers to Clean Sky 2 Work Plan (scope and objectives)

Andalucía Regional call:

- An open competitive R&D call a scheme with a reserved budget for complementary projects
- Proposals with a Clean Sky positive evaluation and complementary Clean Sky labelled projects are eligible under the call

Occitanie Regional call:

- Thematic R&I call with a focus on Aeronautics RIS3 priorities
- Including “Clean Sky areas/topics” with ref to the Clean Sky 2 Work Plan



Policy level - possible evolutions

1st December COMPET Council conclusions "From Interim Evaluation of Horizon 2020 towards the ninth Framework Programme":

Some highlights:

- R&I partnerships are an important element of EU R&I policy;
- PPPs should be based on EU added value, transparency, openness, impact, leverage effect, long-term fin commitment of all parties, flexibility, coherence ***and complementarity with EU, national and regional initiatives;***
- ***Invites the MS to ensure the coordination of relevant national policies and resources towards agreed priorities of partnerships***
- Synergies and complementarities between the FP and ESIF. ***Regulations of next FP, ESIF , state aid and other EU Programmes should be designed from the beginning with synergies, coherence, compatibility and complementarity..***



Main criticalities and possible way forward

- H2020/ ESIF different rules e.g funding rates/costs methods affects technical consistency in building complementary schemes and projects
- RIS3 often too wide, too many priorities identified → hesitation to launch thematic calls/funding schemes
- Wider use in ESIF funding schemes of H2020/JUs evaluations and quality labels such as “Clean Sky label”
- Establish in the design of RIS3 and ERDF Operational Programmes post-2020 structured links with Joint Undertakings → take commitments on coordinated plans/actions
- Build on Clean Sky MoU network to consider a possible RIS3 network/platform of Aeronautics Regions to foster interregional cooperation



Where to find more information

- Dedicated webpage on cooperation on synergies with MS/Regions with RIS3 mapping, regional statistics, how to engage in a cooperation :
<http://www.cleansky.eu/structural-funds-and-regions>
- A successful brochure dedicated to CSJU cooperation on synergies and showing type of ESIF calls/schemes and projects
- Conference on RIS3/synergies at Aerospace event “ILA” Berlin on 26th April 2018

<http://www.cleansky.eu/event/ila-berlin-air-show-2018>

