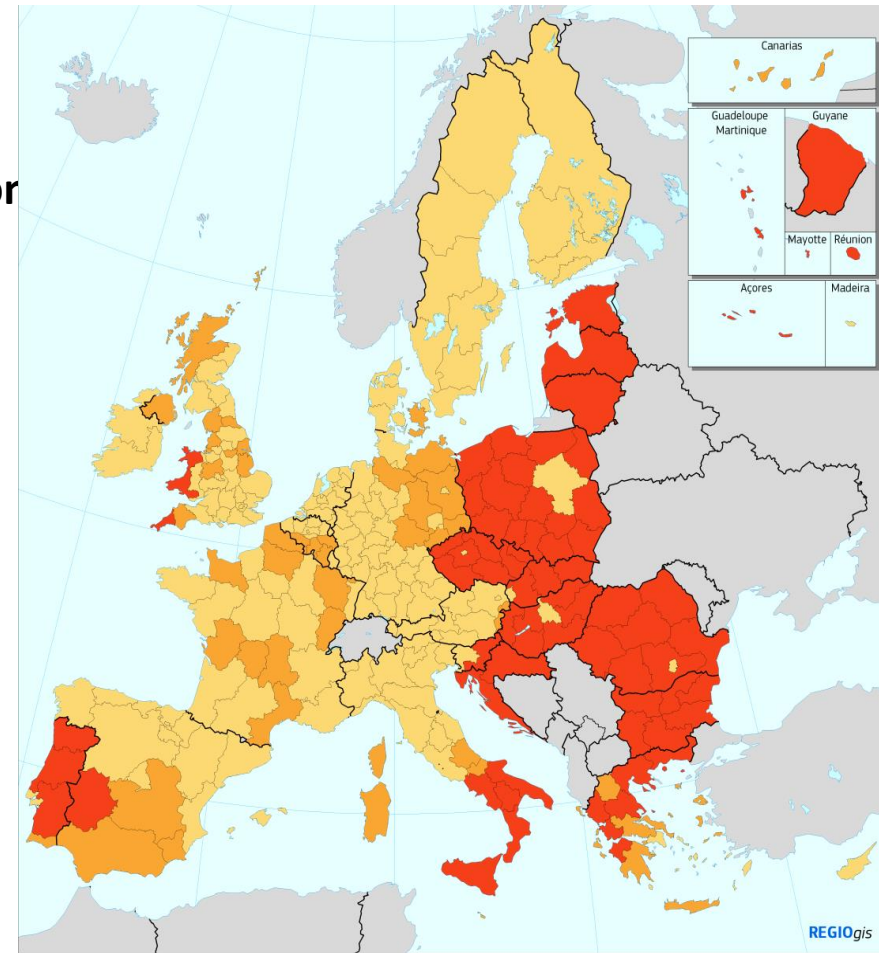


Synergies between H2020 and ESIF: Clean Sky pilot case

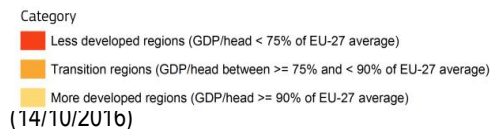
Juan Francisco Reyes Sánchez
CDTI

Cohesion Policy + ESIF basics

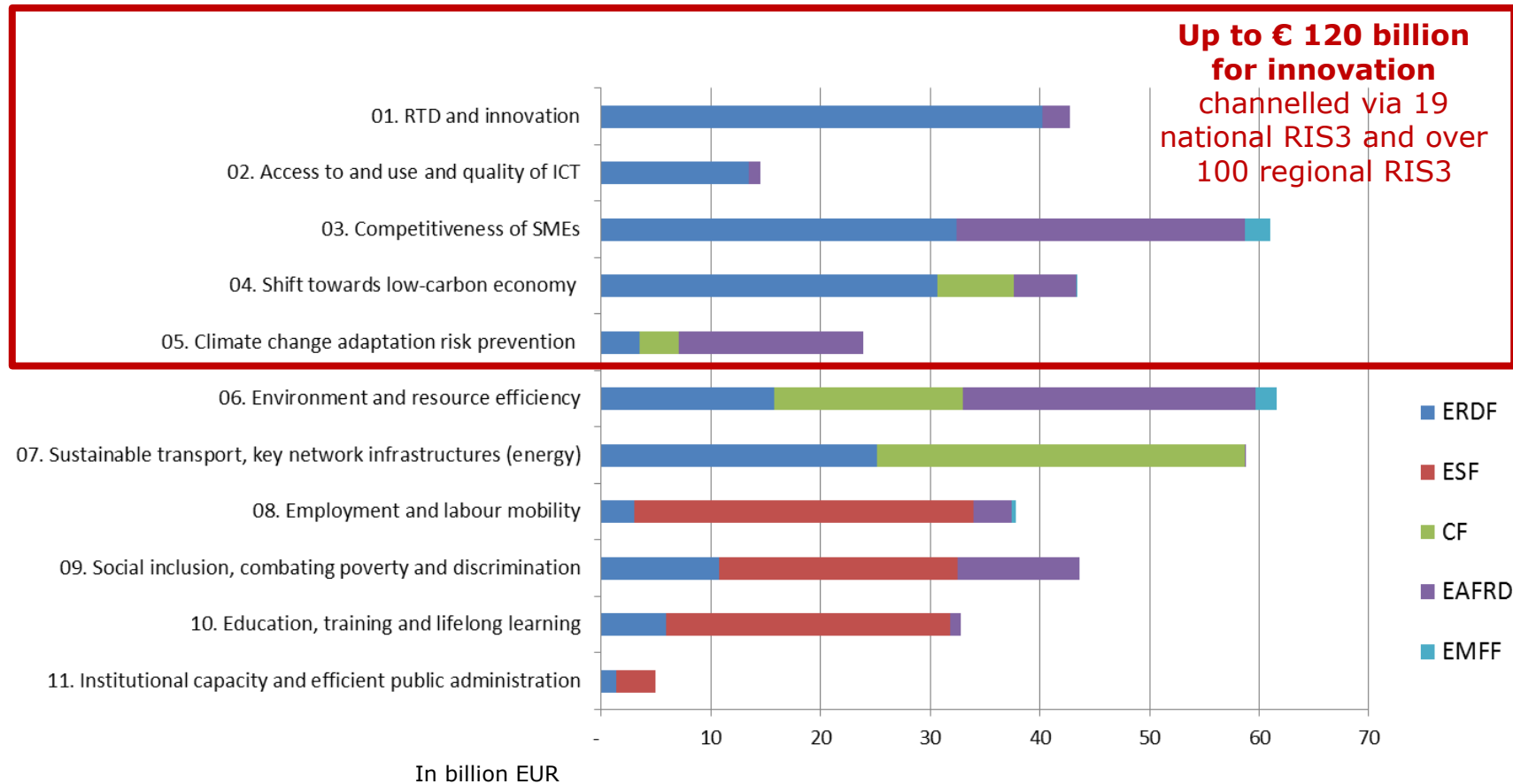
- Based on **EU Treaty** and aiming at '**economic, social and territorial cohesion**' and '**reducing disparities**'
- 5 funds for Cohesion Policy:
 - **European Regional Development Fund (ERDF)** incl. INTERREG
 - **European Social Fund (ESF)**
 - **Cohesion Fund (CF)**
 - **European Agricultural Fund for Rural Development (EAFRD)**
 - **European Maritime and Fisheries Fund (EMFF)**
- Around € 450 billion for 2014-2020 in over 450 programmes
- concentrated in less developed regions
- **Shared Management**



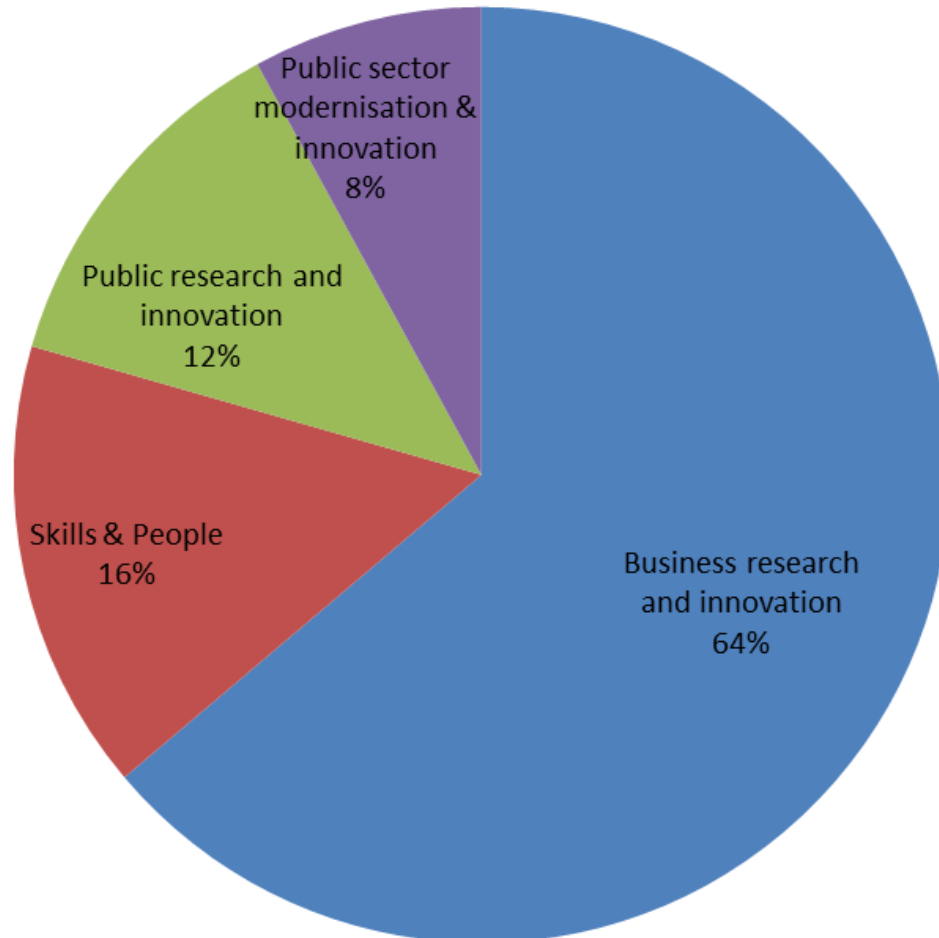
Structural Funds (ERDF and ESF) eligibility 2014-2020



ESIF funding per thematic objective:



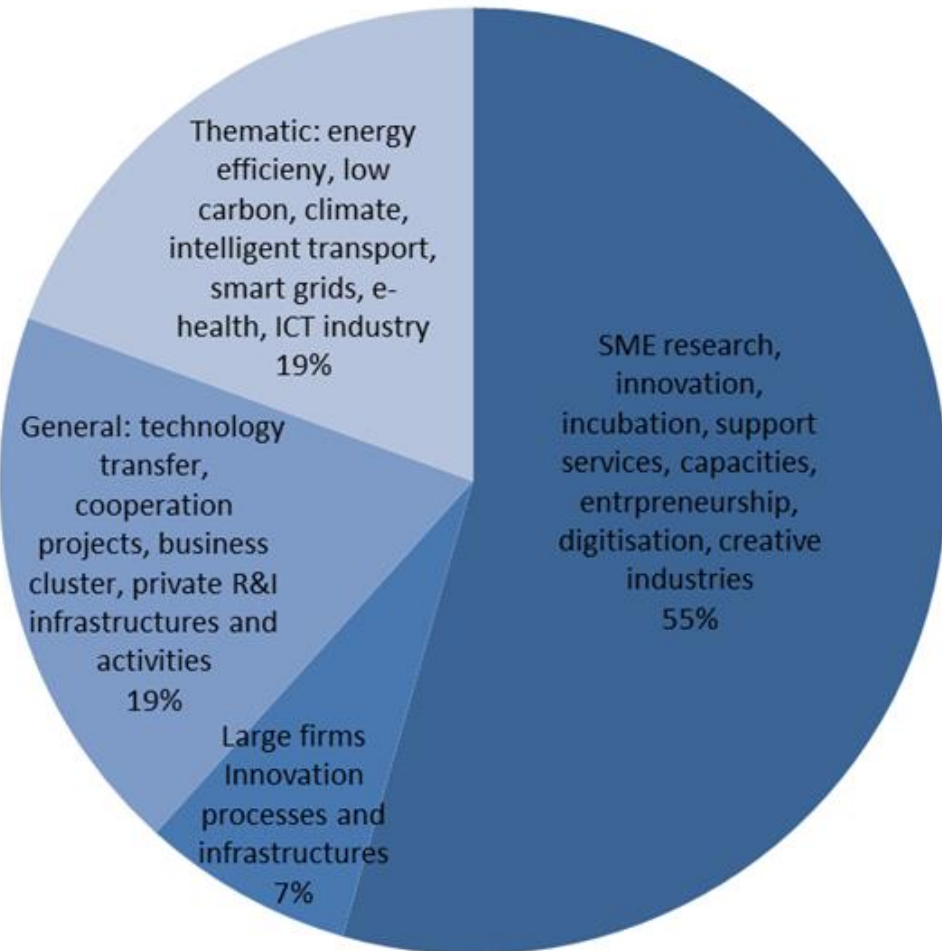
ESIF Innovation Investments 2014-2020



ERDF & ESF allocations:

- **Business research & innovation:**
EUR 60 billion
- **Skills & People:**
EUR 14.5 billion
- **Public research & innovation:**
EUR 11.7 billion
- **Public sector modernisation & innovation:**
EUR 7.4 billion

... of which EUR 60 billion ESIF for business R&I



- **SME** research, innovation, incubation, support services, capacities, entrepreneurship, digitisation, creative industries:
EUR 32.3 billion
- **Thematic innovation demand:** energy efficiency, low carbon, climate, intelligent transport, smart grids, e-health, ICT :
EUR 11.4 billion
- **Innovation support system:** technology transfer, cooperation projects, clusters, private R&I infrastructures and activities:
EUR 11.2 billion
- **Large firms** innovation processes, activities and infrastructures:
EUR 4.3 billion

Europe 2020 strategy

Origins of RIS³

Research & innovation policy:

Technological / scientific specialisation (centres of excellence, ...), impact on growth?

Five Union objectives: employment, innovation, education, social inclusion and climate/energy

Industry policy:

Cluster, sector analysis,
Demand side innovation support: Lead Market Initiative

Smart specialisation

Concept of synergies

- **Improve the quality of national & regional innovation policies**, including type of support measures
- **Enhance the impact of investments**, incl. "durability", links btw. projects, building on previous projects of other instruments
- **Amplify projects / initiatives** by joining forces under different funds to generate critical mass: cumulation / alternative funding
- **Strengthen cooperation and complementarity across Europe** by teaming up different capacities in leading and lagging regions thanks to smart specialisation
- **Strengthen cooperation between innovation actors and policies relevant for innovation** (skilled & creative people, research, enterprises, investors, market access, different Ministries and departments and on different levels, legal and administrative framework conditions...)

What does the EU NOT accept as synergies?

- **NO substituting of national or regional or private co-funding** to projects or programmes by money from the other instruments
- **NO diversion of funding away from the purpose** of the respective instrument / operational programme (e.g. smart specialisation strategy)
- **NO simple "run for the money"**: Maximising the acquisition of additional funding from Horizon2020 or ESIF is no good objective, as this has no durable impact on growth and jobs and creates "grant dependency".

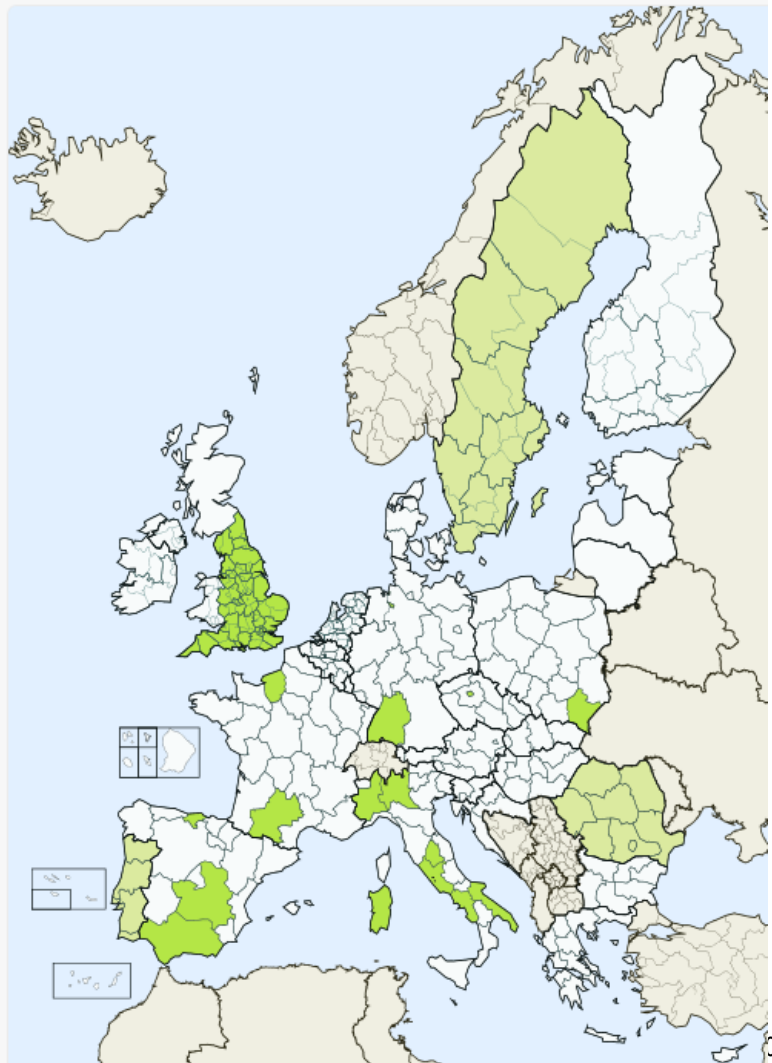
-  EU Countries Registered in S3P
-  EU Regions registered in S3P
-  NON EU Regions Registered in S3P
-  S3P Peer Review



154 EU regions (from 19MS) + 15 countries at national level

- 52 regional and 16 national strategies peer-reviewed
- Thematic seminars & conferences
- Pilot action for Synergies in new MS: Stairway2Excellence
- RIS3 guide for policy-makers
- Mapping of specialisations: Eye@RIS3
- Regional profiling
- Web-site, Newsletter ...

<http://s3platform.jrc.ec.europa>



Eye@RIS3:

database for RIS3 priorities

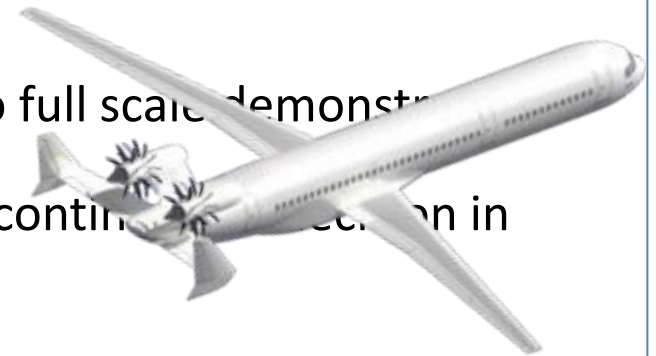
- *Enable Regions and Member States to position themselves,*
- *To find their unique niches*
- *To seek out potential partners for collaboration*
- *Approx. 31 countries and 196 regions and 1350 priorities*

<http://s3platform.jrc.ec.europa.eu/map>



Europe's largest Aeronautics Research Programme ever

- Stemming from long-term objectives defined by **ACARE** – Advisory Council for aeronautical research in Europe
- Integrated breakthrough technologies, up to full scale demonstration
- CS1 started in 2008 within FP7, up to 2017; continuation in Horizon 2020 in 2014 with CS2 in H2020, up to 2024
- Environmental objectives for CS1: CO2 and noise;
Environment, competitiveness and mobility for CS2
- CS1: 1.8 B€ value; CS2: 4 B€



The Founding Regulation of Clean Sky 2 JU requests to “develop close interactions with ESIF and contribute to strengthen regional R&I...”:

CS2 SR Sub-WG established on interfacing with national/regional Programmes, led by CDTI.

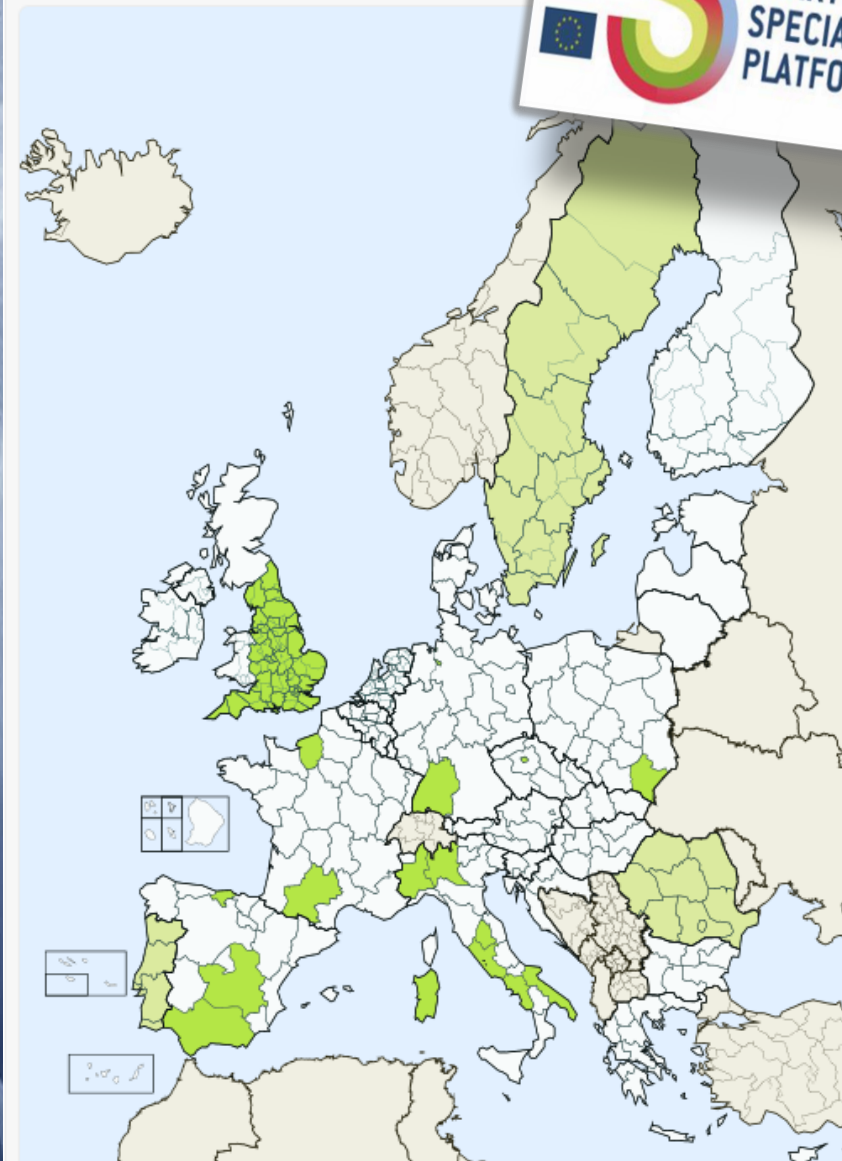
RIS3: Thematic concentration

Synergies and complementarity

**Combination of funding
H2020 & ESIF**

**Cooperation with
AirTN NG**

**Support to the supply
chain, SMEs, ... from a
certain Region**



**Preliminary search in
RIS3 with aeronautics or
correlated area**

**22 Clean Sky related priorities
identified, with the support of
AirTN NG**

- in 16 Regions**
- and 5 Countries**

*RIS3 Approx. 31 countries and 196 regions and 1350
priorities*

<http://s3platform.jrc.ec.europa.eu/map>

(14/10/2016)

3.1.1 Austria

Policy	
Responsible organisation	Federal Ministry for Transport, Innovation and Technology
Contact	ingrid.kernstock@bmvit.gv.at
Strategy	
Aviation strategy board	Aviation research strategy
Name: Strategic advisory board (RTI-aviation)	Name: Research and Innovation in the aviation sector: leveraging international markets
Description: Dialogues for the future held at regular interval between manufactures, researchers, developers and universities support in formulating the strategic information base.	Date of publishing: 11.01.2015 Date of update: Dec 2020 Issuing organization: Bmvit
Contact: Ingrid Kernstock, ingrid.kernstock@bmvit.gv.at	Availability: http://www.bmvit.gv.at/innovation/luftfahrt/strategie
	Main areas covered: Research, Technology and Innovation in of air transportation and aeronautics
Programme/programme-like activity	
Name	Take Off – Research & Innovation Program for Aviation
Funding by	Austrian Federal Ministry for Transport, Innovation and Technology (BMVIT)
Managed by	FFG
Contact	Ingrid Kernstock
Duration	Jan 2015 – Jan 2020
Extension likely	Yes
Programme priorities	

Programme objectives

In line with ACARE Flightpath 2050 goals, the new strategy promotes four measures to be deployed within the framework of a five-year action plan. These are:

1. Build strategic partnerships;
2. Strengthen Austria's competencies and skills in R&I;
3. Foster visibility and market uptake;
4. Facilitate excellent qualification.

Each of these four measures contains a bundle of subordinated tasks to be carried out via public funding programmes and accompanying activities. In 2020, a comprehensive strategy evaluation will be conducted.

Take Off 2015 – 2020, with focus on:

- System Integration (Humans. Organisations. Technologies);
- Strategic Partnerships (National. Transnational. International);
- Capacity and Resource Creation (Traffic. Production. Staff);
- Knowledge Development & Sharing (Topic. Process. Application).

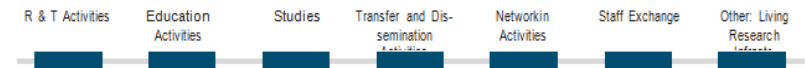
Target groups

The economic significance of Austria's aviation sector is given. Considering both the air transportation sector (Airlines, ANSP's and Airports) and the aeronautics industry, Austria has 225 R&I intensive companies. In addition, there are about 40 academic and non-academic research institutes. All these stakeholders constitute the R&I intensive aviation sector in Austria.

Eligible Applicants

Allowed to apply	Partners from other countries
<ul style="list-style-type: none"> • SME • Large enterprises • Universities • Universities of applied sciences • Competence centres • Research facilities • Start-ups • NPOs 	<ul style="list-style-type: none"> • Can apply • No funding

Types of supporting measures



Technology readiness level covered within the programme



National calls for funding

	Take Off call 2016	Take Off Call 2017
Start date	17/10/2016	10/2017
End date	20/02/2017	02/2018
Typical period	4	4
Topics to be announced in the call	Not yet available	not yet available
Overall call budget	7 MEUR	6 - 8 MEUR
Typical project funding	600 KEUR	600 KEUR
Restrictions from programme information	at least two cooperating entities	at least two cooperating entities
Web link / contact	vera.eichberger@ffg.at	vera.eichberger@ffg.at

Clean Sky: a pragmatic approach to synergies

- **Go “local” and talk to Regions** and Managing Authorities (essential) discuss RIS3 priorities, Operational Programmes, analyse local capabilities and involve stakeholders
- **Discuss ESIF instruments** under preparation and advice how to design instruments to foster synergies with Clean Sky
- **Flexible approach and tailored-made** forms of cooperation by using an MoU to set the general framework and set the scene of the cooperation

The model MoU can be adapted to MS/Region needs, level of commitment and expectations (a tailored made approach)

The model contains annotations to the MS/Region, an effective tool to agree a cooperation and make thing start quickly and with the needed political endorsement

Summary content:

- **Commitment** to explore synergies through its respective Programmes and mechanisms
- Indicate the MS/Region policy framework and OP to support R&I / aeronautics RIS3 may mention “aeronautics” as priority or a correlated area (transport, mobility, materials, Co2 reduction etc)
- Indicate the ESIF funding schemes which will be devoted to stimulate synergies with Clean Sky or agree to jointly discuss its design
- Agree a pilot-phase and implementation via a WG with stakeholders (Clean Sky Members, SMEs, aero clusters etc) involvement as appropriate
- Exchange information under NDA and participation to events

5 escenarios for synergy

1. Upstream support

ESIF support for developing capabilities/skills / infrastructures of its local stakeholders in view of planned participation to Clean Sky calls .

2. Sequential funding / downstream support

Clean Sky beneficiary proposing a continuation / spin-off / amplification of their projects

3. Parallel funding

Applicant to Clean Sky calls proposing in parallel a separate set of “complementary activities” which will be separately evaluated and may be granted a “synergy label.” Applicable to the Clean Sky call for proposals.

5 escenarios for synergy

4. “Seal of Excellence” type – “CSJU synergy label”

If technically appropriate, top ranked proposals (above threshold) in a Clean Sky Call (highly scored) could be supported by Clean Sky with a synergy label for a separate, parallel ESIF funding

5. Thematic approach

ESIF support to complement Clean Sky Programme through definition in line with RIS3 priorities of appropriate R&I themes/topics not addressed in Clean Sky but contributing to its overall objectives.

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Bilateral cooperation – MoU

11 MoU **signed** up to date:

- Midi-Pyrénées (FR)
- Andalusia (ES)
- Romania (State level)
- Campania (IT)
- Catalonia (ES)
- Flevoland (NL)
- Västra Götaland and Östergötland (SE)
- Czech Republic (State level)
- Castilla La Mancha (ES)
- Zuid-Holland (NL)

Bilateral cooperation – MoU

Next MoUs in the pipeline:

- **South West England**
- **Portugal** (National level)
- more under negotiations and consideration depending on JU resources and absorption capacity

Pilot Projects

2 pilot projects in Catalonia:

1. Project “Shearen” funded by Catalonian Innovation Agency sequential to the JU project “Greenbarrels” in **SAGE 2** engines ground test

- Shearen aims at supporting additional process qualification steps toward its use in critical parts manufacturing for engine
- Amplification of impact and results with the Clean Sky Member to continue maturation of technology developed in the JU project due to its potential for material and tooling savings

Pilot Projects

2. Project “Dryforming” funded by Catalan Innovation Agency presented as a complementary activity to a winning proposal within the Clean Sky 2nd call for proposal

- “Dryforming” is building and amplifies the JU funded project **“Cofrare” in Airframes ITD** on developing composite fuselage
- Amplification of impact and results with the Clean Sky Member to meet affordable way to produce this components for a Regional Aircraft

The Midi Pyrenees test case

Phase 1 : bilateral exchanges CSJU – Region on the technical objectives of the regional call under the MoU

Phase 2: the CSJU exchanges with its Members and proposes a set of thematic objectives in some Clean Sky related technical areas (avionics/elec. aircrafts, embedded systems) of common interest

Phase 3: the Region accepts the thematic objectives and integrate them in full in its regional call “Easynov” as “Clean Sky thematic objectives”

Phase 4: CSJU is invited by the Region to take part to the evaluation process based on an NDA regime

Implementation of other MoU: a few examples

1. Romanian national call on H2020 synergies “complement”
planned for publication on 15th June 2016 with closure on 29th
July

- The call will support complementary activities which have already been evaluated by Clean Sky and with a synergy label
- Calls also open to Clean Sky Core Partners from Romania to propose activities complementing those being executed with JU funds
- RO administration will seek the CSJU participation in the evaluation as expert/advisory to support the evaluation process for “Clean Sky synergies” validation

Implementation of other MoU

2. Andalucía R&D call expected for launch in June 2016

- The call will specifically refer to supporting projects and complementary activities already evaluated by Clean Sky JU and with a Clean Sky synergy label

3. Campania R&I thematic call including aeronautics RIS3 priority

- The Midi Pyrenees model should be followed in terms of agreeing with the Region the technical areas and thematic objectives to be integrated in the Regional call
- Also agreeing mechanisms to support complementary activities already evaluated and being awarded a Clean Sky synergy label

Implementation of other MoU

4. **Czech Republic:** recent modification of the Operational Programme “EIC” (monitoring committee decision of 13th May) to add a section on synergies following the signature of the MoU with the Ministry of Industry and Trade and a successful workshop with stakeholders
- The Managing Authority may decide to support good quality projects (SME Instrument, CLEAN SKY 2...) where not funded under those instruments: an important policy “step forward”
- The Ministry has requested now the support of the CSJU to draw up an “action plan” to implement the above: a synergy call by end of summer and a possible aeronautics thematic call under consideration

Conclusions

- Joint Technology Initiatives are potentially well placed for contributing to efficient synergies H2020/ ESIF
- Linking to a long-term Technical Programme and a credible industrial strategy is a plus for achieving synergies
- The exchanges with Clean Sky (key interlocutor in aeronautics R&I) allow more strategic approach by MS/Regions in drawing their plans based on its existing capabilities and reinforce its European dimension
- SMEs support policy and its internationalization through ESIF are perfectly in line with Clean Sky objectives – a shared goal
- Interest shown also by Central-Eastern Europe MS in working with Clean Sky on synergies is important, it also raises more interest of stakeholders in applying to H2020

Links and documents:

- Cohesion Policy & European Structural and Investment Funds
http://ec.europa.eu/regional_policy/index.cfm/en/
- Horizon 2020:
http://ec.europa.eu/research/horizon2020/index_en.cfm?pg=h2020-documents
- S3Platform, including RIS3 data base and Stairway to Excellence pilot project: <http://s3platform.jrc.ec.europa>
- Vanguard Initiative: <http://www.s3vanguardinitiative.eu/>
- <http://www.cleansky.eu/content/page/synergies-structural-funds>

THANKS!

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