



Value Chains and the New Thematic Smart Specialisation Platforms

Workshop on Implementation of Smart Specialisation Strategy
7 April 2016

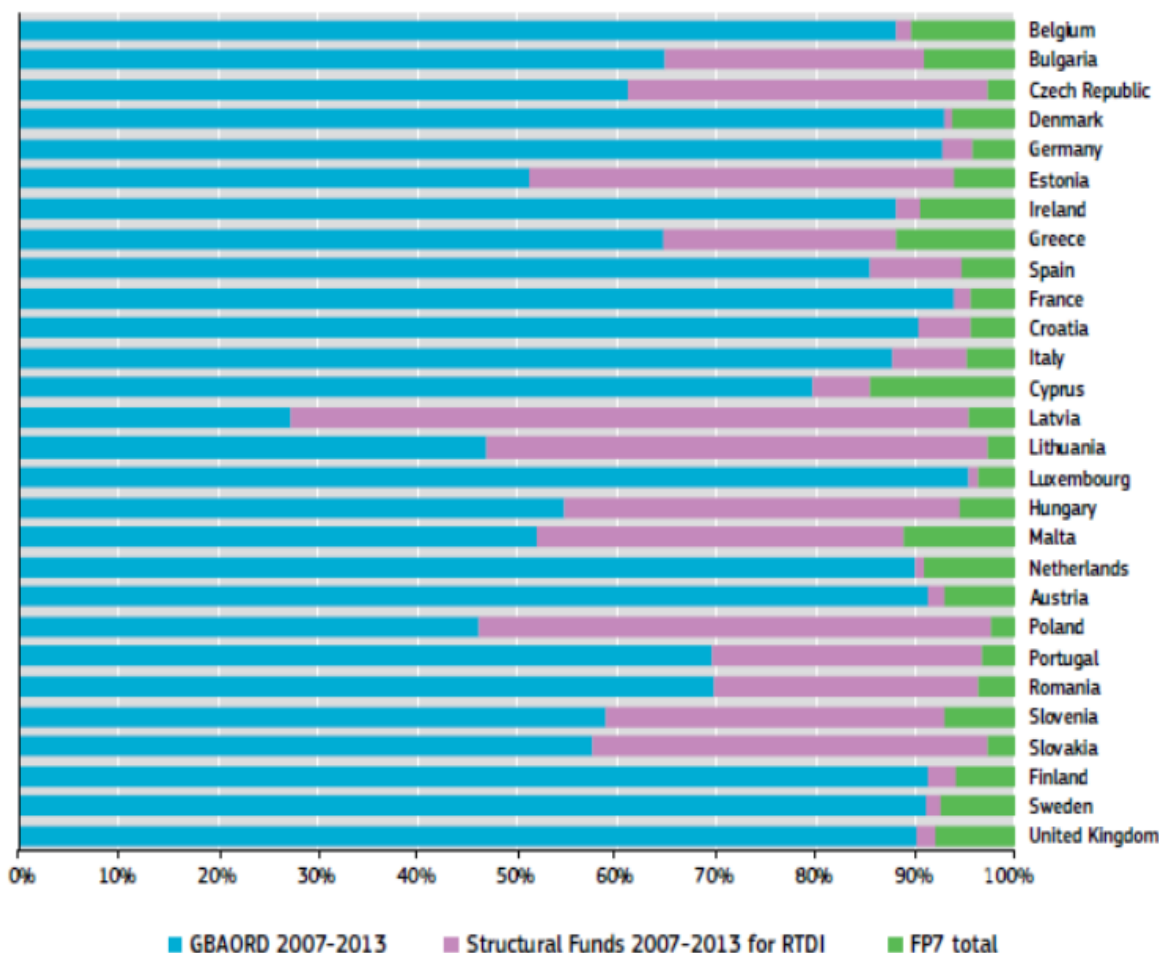
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Deputy Head of Unit
CC Smart and Sustainable Growth
DG Regional and Urban Policy

Structure

- *State of play regarding RIS3*
- *Challenges & opportunities ahead*
- *Thematic Smart Specialisation Platforms*

Importance of ESIF in Public R&D Spending

► **Figure II-2-8** Shares (%) of GBAORD, Structural Funds allocated to RTDI, and FP7 funds⁽¹⁾, 2007-2013



In 2007-2013:

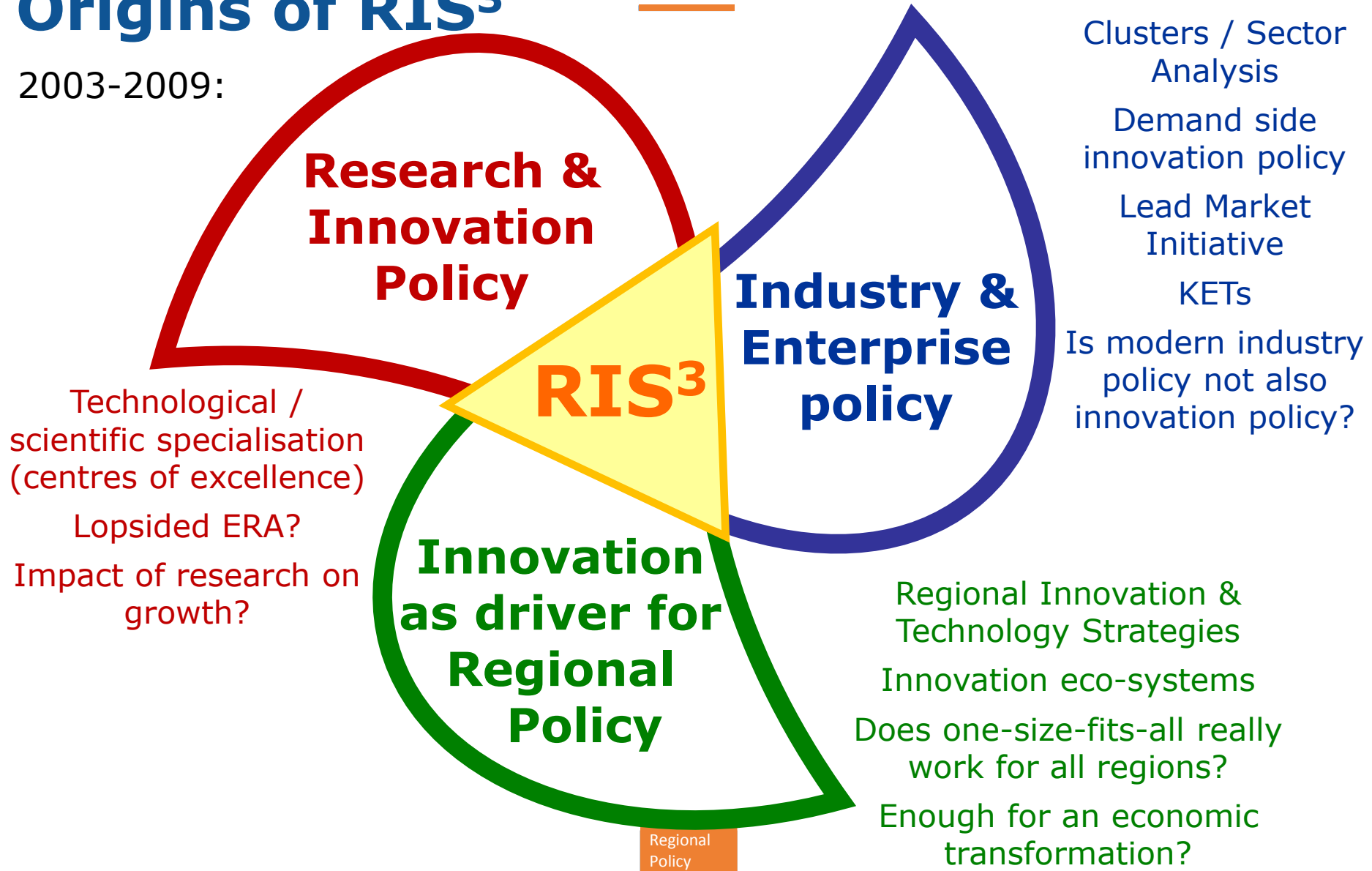
- In **PL, LT** and **LV** more than **50%** of GBAORD came from Cohesion Policy.
- In **CZ, EE, HU, MT, SI** and **SK** more than **30%**
- In **RO, PT, EL** and **BG** more than **20%**

"Several Central and Eastern European countries (in particular Slovakia, Estonia, and the Czech Republic) as well as Malta also display strong growth rates in public R&D intensity since 2007, thanks in particular to the significant mobilisation of European Structural Funds. As a result, the Estonian and Czech public R&D intensities are now higher than the EU average"

See: Science, research and innovation performance of the EU - A contribution to the open innovation, open science, open to the world agenda : 2016 http://bookshop.europa.eu/is-bin/INTERSHOP.enfinity/WFS/EU-Bookshop-Site/en_GB/-/EUR/ViewPublication-Start?PublicationKey=KI0415512

Origins of RIS³

2003-2009:



RIS³ design:

Entrepreneurial Discovery Process

- **Reiterative process**
- **Creative thinking / combination**
- **External view needed**
- **Multiple formats of EDP depending on:**
 - *RIS3 stage (strategy design vs. Delivery mechanism design vs. Project level)*
 - *Theme / value chain specificities (e.g. pharmaceuticals vs digital innovations vs manufacturing)*

Business

manufacturing and services, primary sectors, financial sector, creative industries, social sector, large firms, SMEs, young entrepreneurs, students with business ideas, cluster and business organisations, etc.

Research

public and private research bodies, universities, science and technology parks, NCPs, Technology transfer offices, Horizon2020 committee members, regional ESFRI roadmaps etc.

Entrepreneurial in **composition** and **spirit**: (risk-taking, broader view beyond boundaries ...)

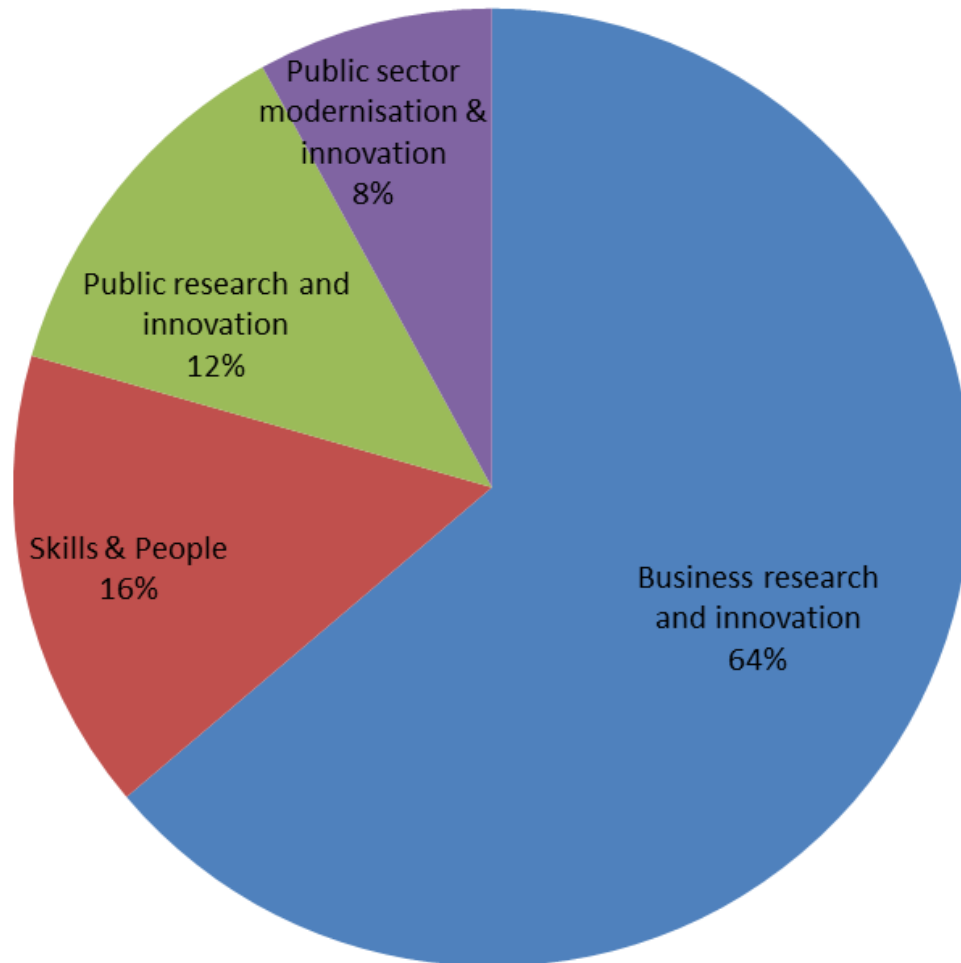
Different departments, if relevant at different government levels, agencies e.g. for regional development, business advice, public procurement offices, incubators, etc.

Public administration

NGOs and citizens' initiatives related to societal challenges for which innovative solutions would be helpful, consumers associations, Talents! etc.

Civil society / Users

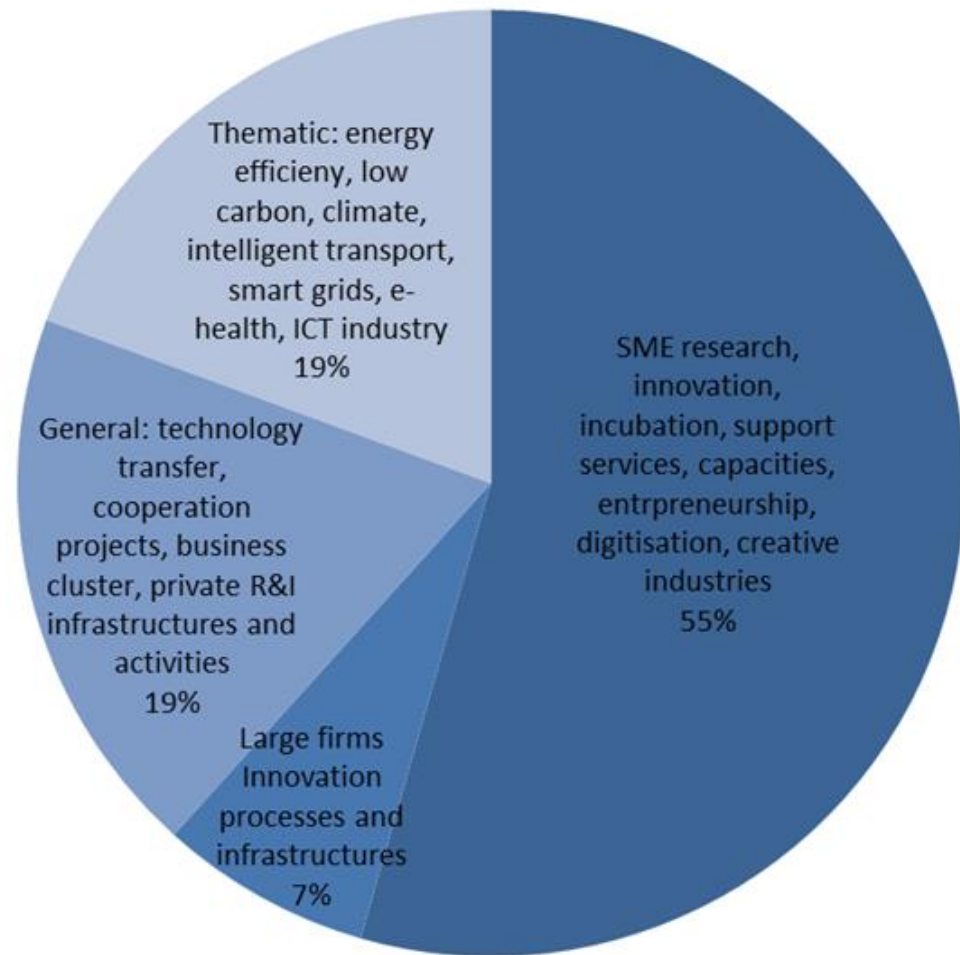
ESIF Innovation Investments 2014-2020



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

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

First RIS³ Conclusions after negotiations

- Fresh start for innovation policy **governance** in many countries & regions
- Concept of RIS³ welcomed as a possible way out of the crisis thanks to **economic transformation** of regions & MS
- Role & potential of regions in innovation policy (**place-based**)
- Better **planning and impact** orientation
- More interest in **trans-national and inter-regional** cooperation (Vanguard, Macro-regional strategies, INTERREG)
- **Mutual learning & peer-reviews** appreciated
- **Synergies** with COSME & Horizon2020 identified as opportunities
- More awareness of EU initiatives, like "KETs" and industry policy
- In advance insights in smart specialisation investment **priorities** (ground-breaking novelty for ESIF !)

Main challenges to make RIS³ work:

Ensuring continuity

- RIS3 is conceived as on-going (and reiterative) process with stakeholder involvement
(Entrepreneurial Discovery Process)
- Monitoring as management tool
- Evaluation of RIS³

Implementation tools & capacities

- Administrative capacities:
- to design appropriate support tools (participatory leadership methods, learning from other countries & Horizon2020)
- To manage the tools effectively and efficiently

International opening and cooperation

- Generate critical mass via combining forces
- Complementing capacities and linking related regions
- Synergies with Horizon 2020, COSME
...

RIS³ priorities offer opportunity to find suitable cooperation partners

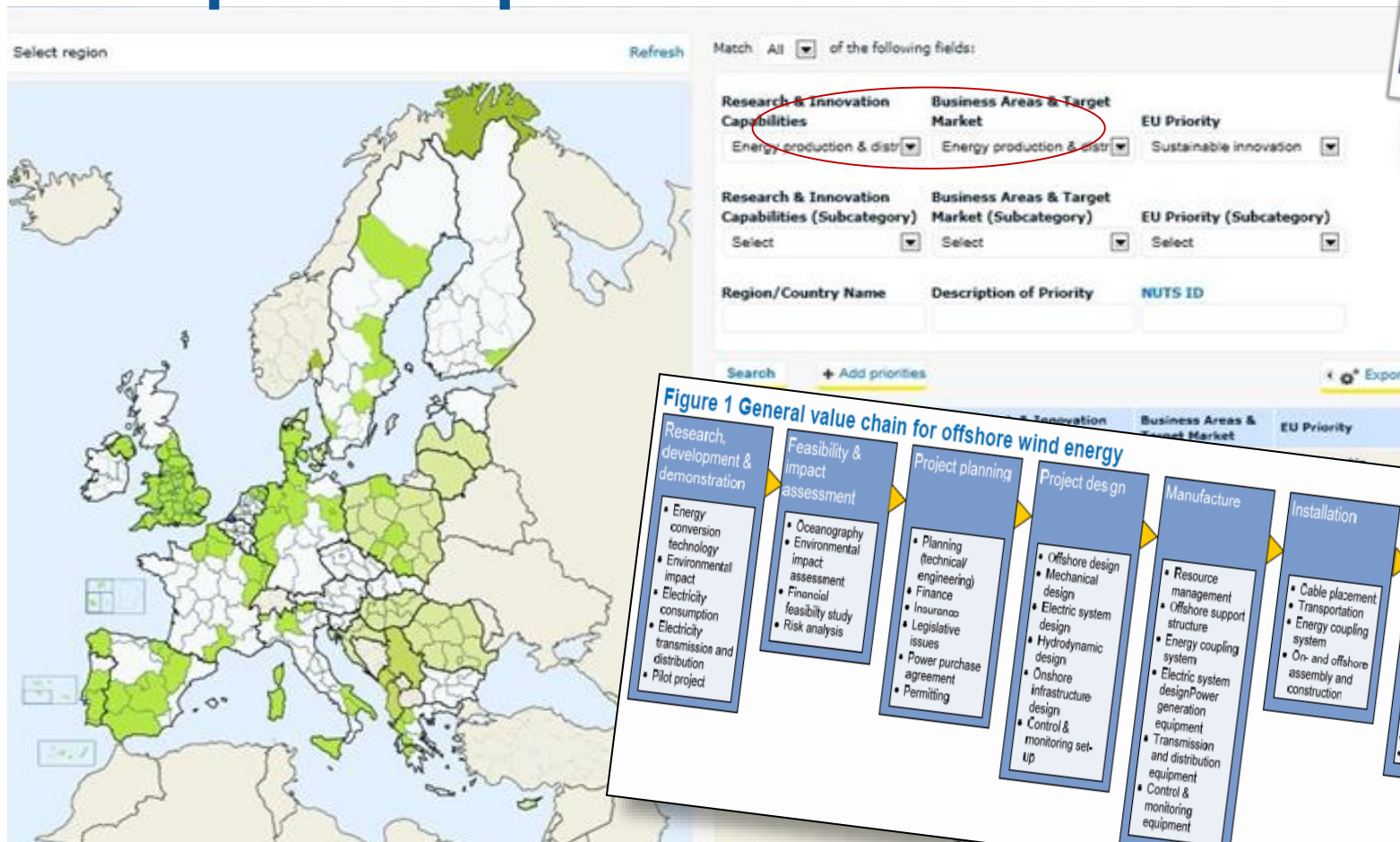
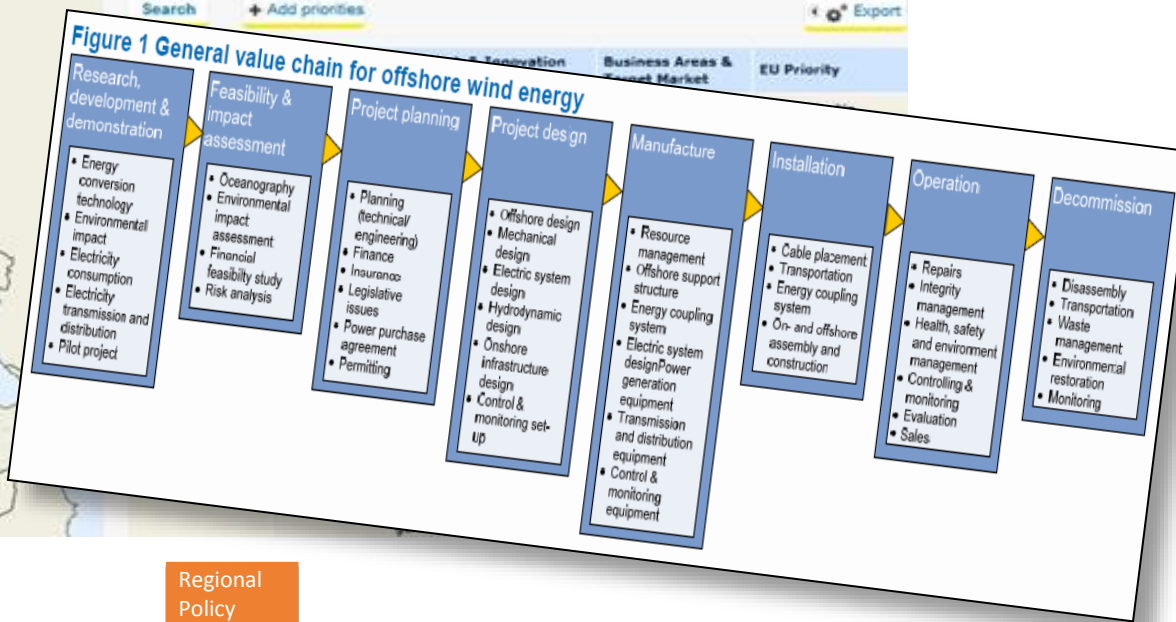


Figure 1 General value chain for offshore wind energy



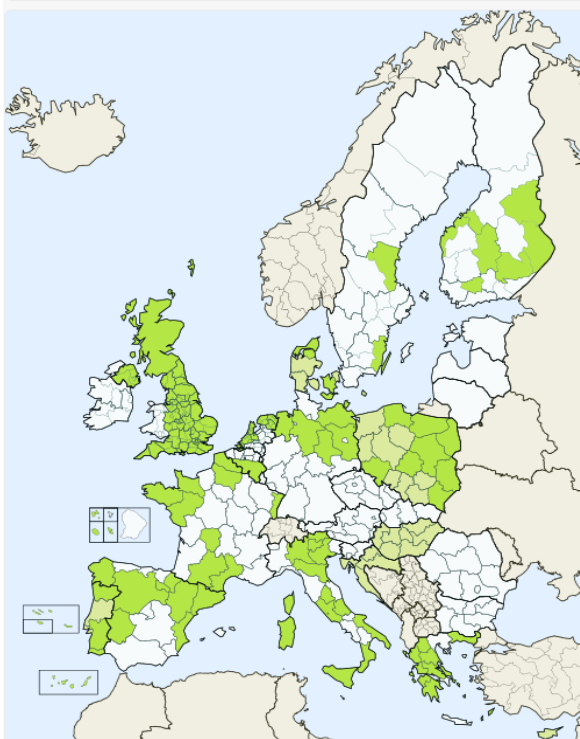
RIS³ priorities offer opportunity to find suitable cooperation partners

Example: agro-food related innovation



Eye@RIS3

Select Region



85 Regions have indicated priorities in 'agro-food' distributed over following sub-domains:

	Table : Agro- and Food related sub-areas of specialisation (EU28)	count, n
AF1	Agro- and food related technologies (incl. KETs, chemistry, energy, biofuels, engineering, health and life sciences, bio-medicine, pharmacy and generic engineering)	60
AF2	Agro-food and Tourism	54
AF3	Food and food products with higher added-value (organic food, healthy food, quality of life)	36
AF4	Water for environment and agriculture (including aquaculture, fisheries and maritime)	32
AF5	Food production, manufacturing and distribution	20
AF6	Environmentally-friendly production of agro-food	18
AF8	Food safety and security	11
AF9	Application of ICT in the field of agriculture	4
AF10	Research and Education in Food/Agriculture	2
AF11	Transport and logistics	2
AF12	(Non-specified) Agriculture as an industry	41
AF13	(Non-specified) food products	17
	Total	271

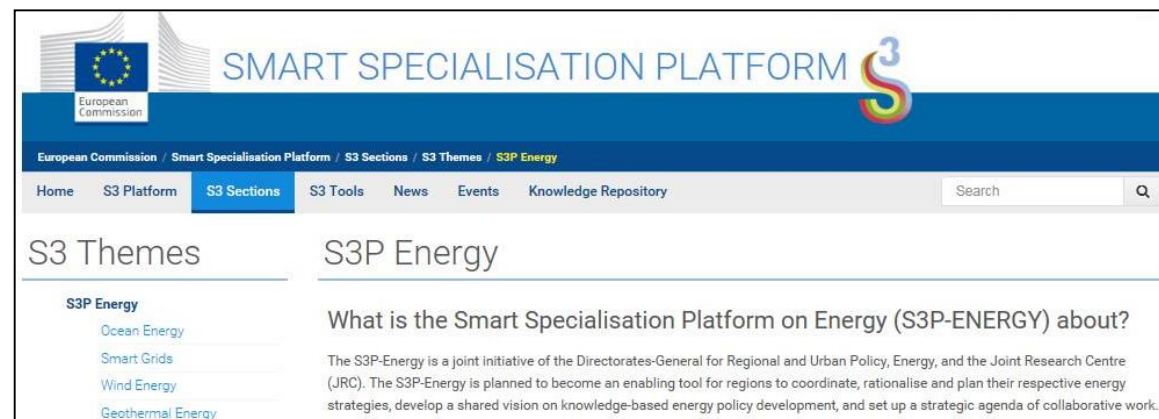
Starting point for further exploration in the 'Smart Specialisation Platform Agro-Food'

Thematic Smart Specialisation Platforms: How?

Approach: Using smart specialisation as a coordinating mechanism to align efforts

- ✓ based on **RIS³ analysis** – including "lagging regions" and other "unusual suspects"
- ✓ foster opportunities for regions/MS to team up around **value-chains** (Horizon2020, COSME and INTERREG Europe could support networking costs)
- ✓ **driven by motivated regions** (e.g. in the Vanguard Initiative)
- ✓ **entrepreneurial discovery at European level**: inspired by Vanguard Initiative (Learn-Connect-Demonstrate-Commercialise)
- ✓ involving relevant clusters, intermediaries, thematically related EU level initiatives (such as the EIT-KICs, Joint Undertakings, ETPs, EIPs, etc.)
- ✓ support the development of **project investment pipe-lines**
- ✓ Facilitate **access to "real money"** for resulting projects (incl. EFSI, cooperation with EIAH, private investors, coordinating ESIF investments, Horizon2020 ...)

First Platform concerns energy:



Thematic Smart Specialisation Platforms: How?

Approach: Using smart specialisation as a coordinating mechanism for various actors

- ✓ based on...
- ✓ ...

**What should be new
compared to previous networks and platforms?**

Strategic focus:

organising the 'discovery process' of opportunities for co-investment in **priority areas**

Composition:

not only immediate competitors, but potential cooperation partners along **value chains**

Governance:

joint initiative of regions that lead-by-example and DGs, open to all that **commit**

Objective:

not only developing a specific technology / solution or mutual learning or joint strategy development, but a **project pipeline** leading to concrete, coordinated & joint investments

The new
approach
in action!

Ambitions

Partners

Pilot Initiatives

Activities

Contacts



Pilot actions for joint demonstration:

- **Advanced Manufacturing for energy applications**
- **Efficient and sustainable manufacturing**
- **High Performance Production with 3D Printing'**
- **Bio-economy (non-food biomass)**
- **Nano-enabled products**

upscale

learn

- developing a scoping paper
- mapping questionnaire
- Identify lead regions and actors

connect

- matching events for complementary partners
- developing demonstration cases

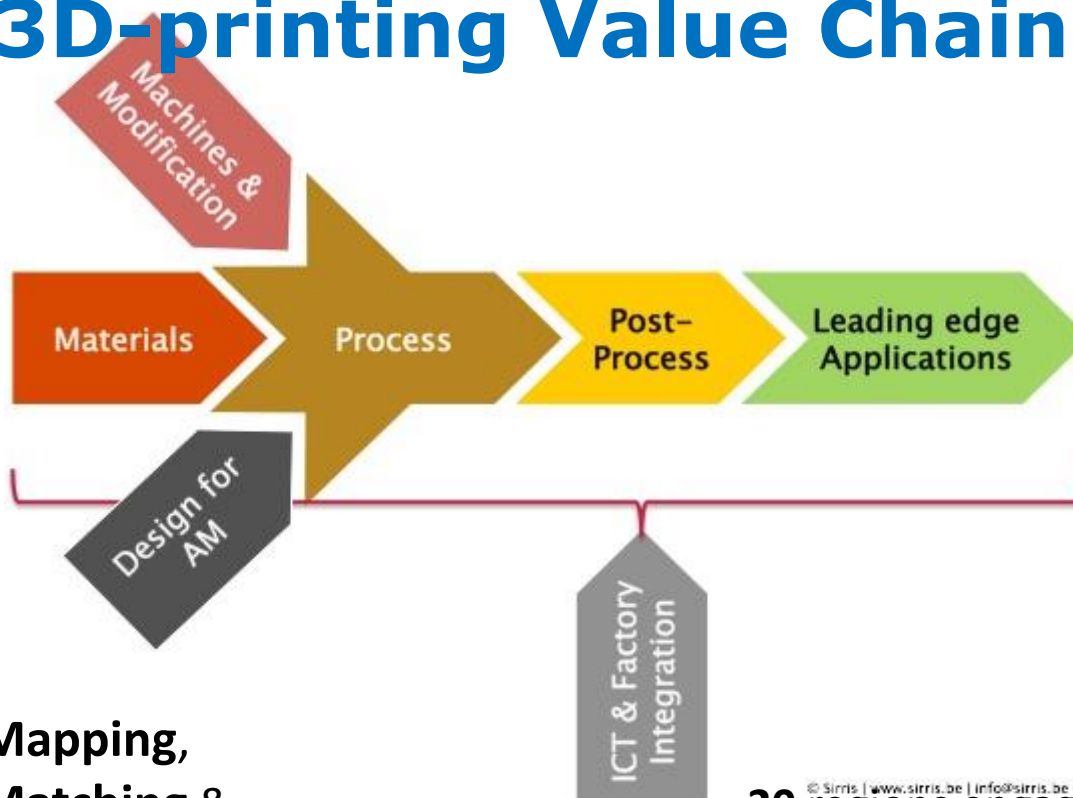
demonstrate

- networked demonstration
- pilot lines and first-of-a-kind factories (TRL6-8)
- Generation 'n', 'n+1' and 'n+2'

commercialise

- launch of new ventures and start-ups
- new value chains (TRL 9)

Methodology at work in 3D-printing Value Chain



Application domains & challenges

- Healthcare
- Automotive
- Aerospace
- Machinery and instruments
- Electronics and electr. devices
- Creative industries
- Textiles

**Mapping,
Matching &
Co-investing**
in interregional **value chains**

20 regions engage in Joint Demonstration
to accelerate uptake **3D-Printing** Solutions

Creating Thematic SSP dynamics:

The SSP promotes Joint Roadmaps for joint demonstration and co-investments (in complement with Horizon2020)

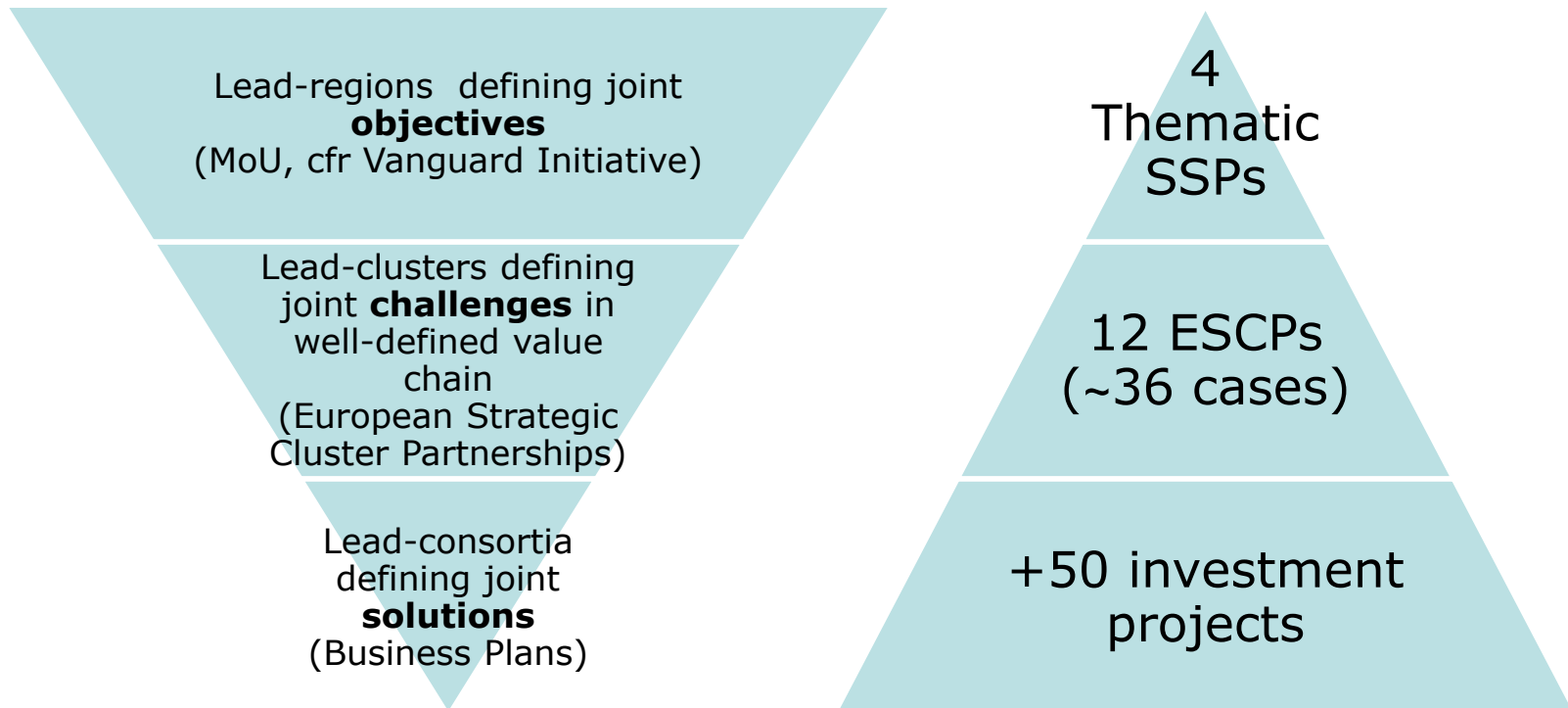
Lead-regions defining joint **objectives**
(MoU, cfr Vanguard Initiative)

Lead-clusters defining joint
challenges in well-defined value
chain
(European Strategic Cluster
Partnerships)

Lead-consortia defining
joint **solutions** (Business
Plans)

Creating Thematic SSP dynamics:

The TSSPs create a multiplier mechanism in supporting a project pipeline based on synergies in joint demonstration and piloting



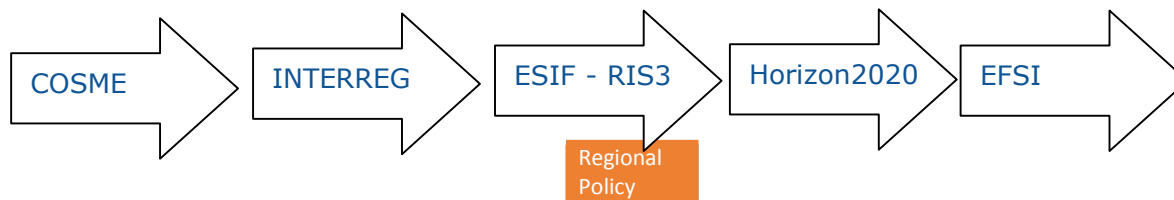
European Strategic Cluster Partnerships for Smart Specialisation Investments



Partnership building
Joint strategy formulation
Implementation roadmap

Matchmaking
Joint activities,
demonstration projects,
pilots, preparation of
bankable proposals

Additional private/public
financing
Acceleration support
Showcasing results



Next steps

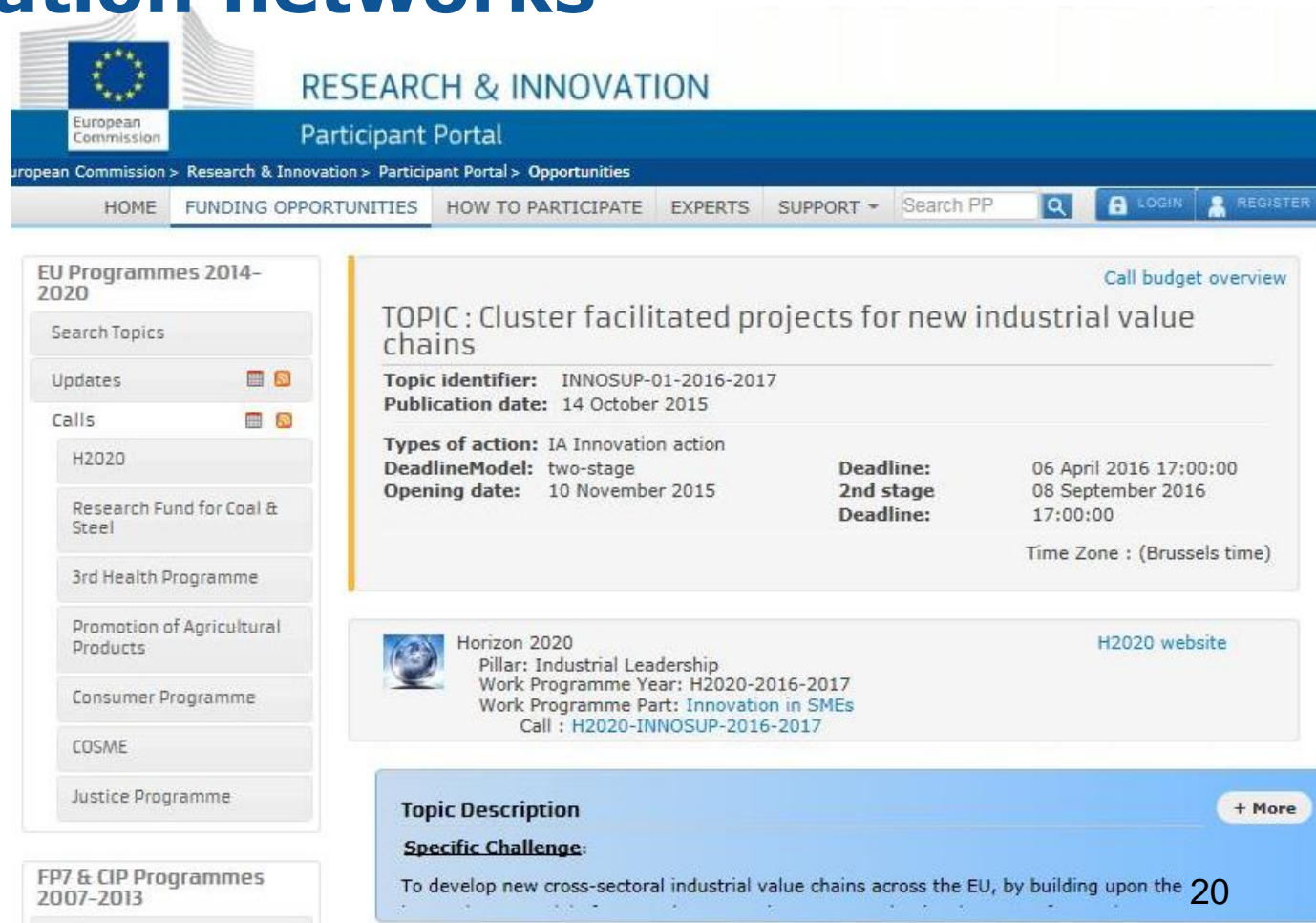
- **25 February 2016:** *Vanguard Initiative Pilots Brokerage Event*
Test methodology & link up with DG GROW Cluster Partnerships
- **April / May 2016:** *Call for expression of interest for European Strategic Cluster Partnerships and preparatory support / INTERREG Europe call*
- **May 11 & 12:** *Information Days on SSP Industrial Modernisation & SSP Agro-Food*
- **1-2 June 2016:** *Launch Thematic Platforms at High-Level Smart Specialisation event*



Horizon 2020 support for thematic smart specialisation networks

[INNOSUP-01-2016-2017](#) call:

Cluster facilitated projects for new industrial value chains



RESEARCH & INNOVATION
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H2020

Research Fund for Coal & Steel

3rd Health Programme

Promotion of Agricultural Products

Consumer Programme

COSME

Justice Programme

FP7 & CIP Programmes 2007-2013


TOPIC : Cluster facilitated projects for new industrial value chains

[Call budget overview](#)

Topic identifier: INNOSUP-01-2016-2017
Publication date: 14 October 2015

Types of action: IA Innovation action
DeadlineModel: two-stage
Opening date: 10 November 2015

Deadline: 06 April 2016 17:00:00
2nd stage Deadline: 08 September 2016 17:00:00
Time Zone : (Brussels time)

 **Horizon 2020**
Pillar: Industrial Leadership
Work Programme Year: H2020-2016-2017
Work Programme Part: Innovation in SMEs
Call : H2020-INNOSUP-2016-2017

[H2020 website](#)

Topic Description [+ More](#)

Specific Challenge:

To develop new cross-sectoral industrial value chains across the EU, by building upon the

INTERREG Europe support for thematic smart specialisation networks

New call offers new opportunities:



The screenshot shows the Interreg Europe website. At the top, there is a navigation bar with the Interreg Europe logo (a stylized 'E' made of three colored shapes) and the text 'Interreg Europe' and 'European Union European Regional Development Fund'. To the right of the logo is a small European Union flag. Further right is a 'My li' link. Below the navigation bar is a menu with links: 'About us', 'Projects', 'Policy learning platform', 'News and events', 'In my country', and 'Help'. Below the menu is a dark grey breadcrumb trail: 'Home > Projects > Apply for funding'. The main content area has a light blue background and features the heading 'Apply for funding' in large, bold, dark blue letters, followed by 'Second call (5 April - 13 May 2016)' in bold, dark blue letters. Below this, a paragraph of text states: 'The Interreg Europe monitoring committee has approved the terms of reference for the second call for project proposals. The call is open from 5 April, and it will close on 13 May.'

<http://www.interregeurope.eu/projects/apply-for-funding/>

1 June 2016, WEDNESDAY

Sessions 1-2: Smart specialisation - From Design to Implementation

- Continuous Entrepreneurial Discovery
- Governance settings
- Selection criteria and selection process
- Transnational cooperation and value chains
- Monitoring and evaluation
- Smart Specialisation Strategy experience outside EU

Session 3: Thematic Smart Specialisation Platforms

- Industrial Modernisation
- Agro-Food Value Chains
- Energy Transition
- ...

Session 4: Investment challenges



2 June 2016, THURSDAY

Report and conclusions from day 1

Session 5: Align objectives for economic transformation (Stakeholders)

Session 6: Implementation of RIS3 –

Synergies in policy support for economic transformation (Commissioners)

Continuous exhibition and networking

RegioStars Awards



CATEGORY 1: Smart growth

Emerging opportunities in the global economy

Knowledge-driven industrial transformation is at the heart of the smart specialisation concept. It aims to identify unique competitive advantages based on new combinations of their industrial and scientific strengths and potentials and concentrates efforts on priorities. The implementation of smart specialisation strategies draws on many own resources, includes often synergies with Horizon2020, and uses different ESI Funds. Already in the past ERDF supported projects in this spirit, including:

- international opening and transnational cooperation,*
- economic transformation towards related varieties,*
- emerging industries thanks to a new combination of existing sectors / technologies with new technologies and cross-sector cooperation,*
- the evolution of clusters and their trans-national partnerships,*
- avoid duplication of R&I efforts by technology absorption and in-sourcing*

Apply online before April 15th !

http://ec.europa.eu/regional_policy/en/regio-stars-awards

Questions and Answers

