

Joint Research Centre

the European Commission's in-house science service

*Serving society
Stimulating innovation
Supporting legislation*

Smart Specialisation - The S3 Platform

S3 Platform - B.3

JRC – European Commission



JRC B3

A territorial approach to growth and jobs

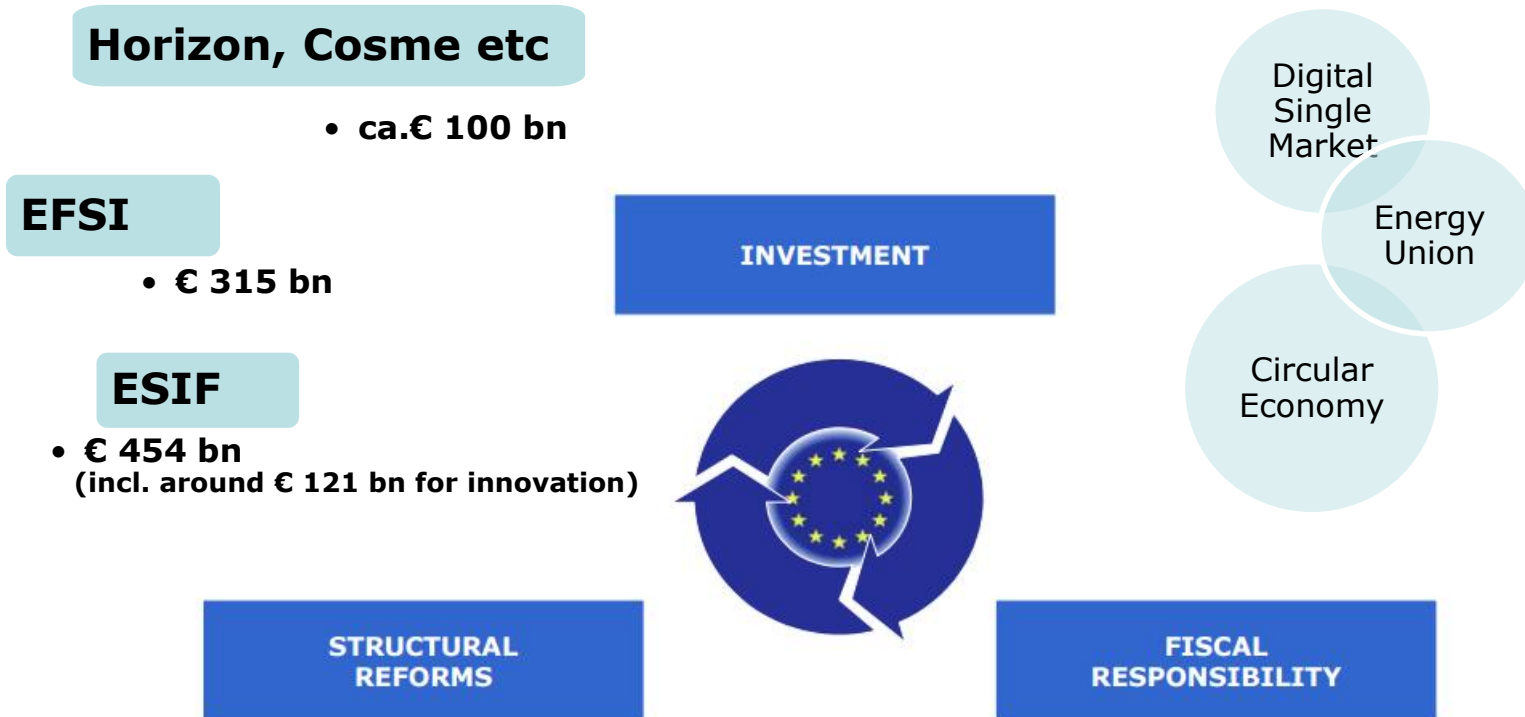
Regional and urban development, research and innovation

- Regional economic modelling
- Territorial modelling – Urban data platform – Urban development strategies
- Smart specialisation – regional R&I strategies – thematic platforms
- Territorial approach to neighbourhood and integration policy
- Synergies between regional and research funds: "Stairway to excellence"
- Growth and innovation in lagging regions
- Regional and urban innovation ecosystems

Industrial research, innovation and technologies

- Corporate research and innovation
- Key enabling technologies – global value chains
- Growth of innovative companies

Supporting the number one EC priority: the Investment Plan for Europe



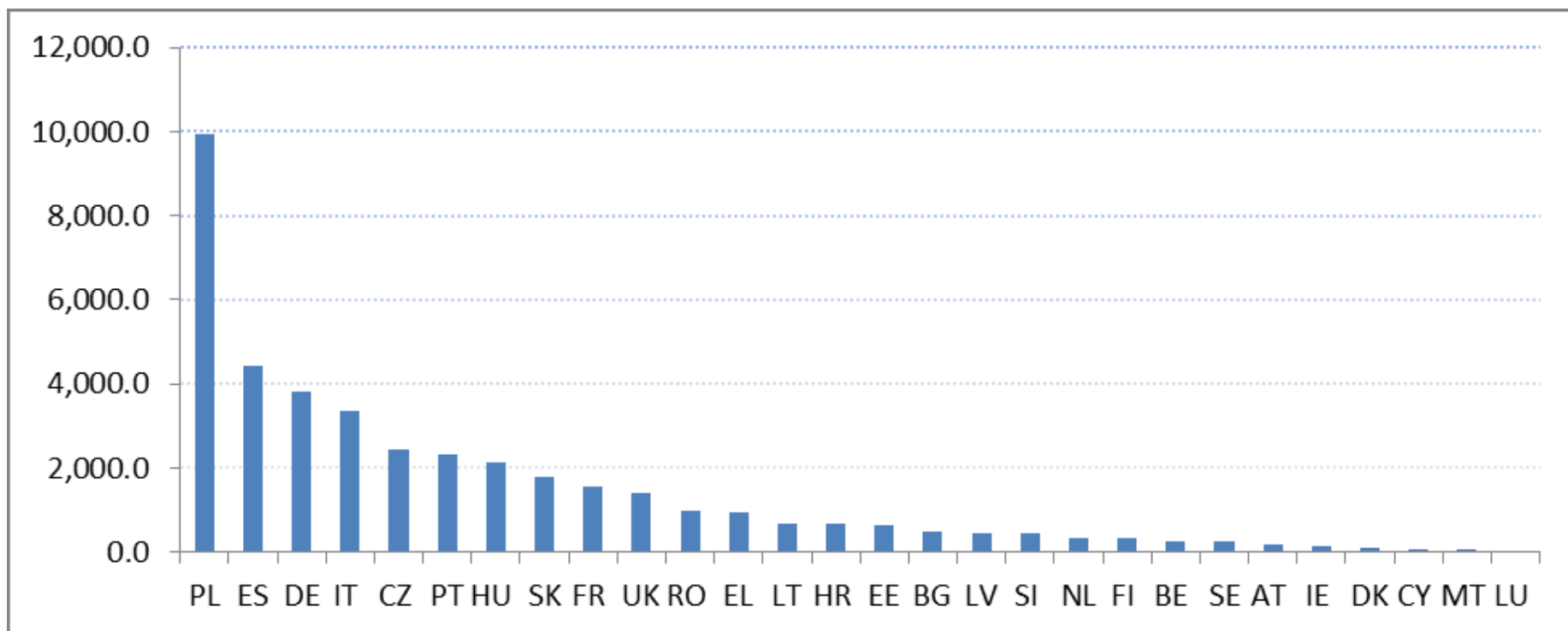
Increase effectiveness of investments !

Supporting EU Regional Policy

- **EU's main investment policy:** €340 billion for investments in economic, social and territorial cohesion for the period 2014-2020
- **Important driver for the real economy:** Boost for exiting the crisis and for establishing the basis of sustainable economic development.
- **Part of the European Economic governance:** European Semester. Increasingly important to achieve the **Jobs, Growth and Investment priority** (Europe 2020 strategy and the Investment Plan for Europe)
- Support to many EU policy objectives in the areas of **education, employment, energy, the environment, the single market, research and innovation.**

Total EU budget for RIS3: EUR 43 billion of ESIF

- plus national EUR 22 billion
- EUR 10 billion in financial instruments/rest in grants



Source: Final ESIF partnership agreements as of December 2015 – Courtesy DG REGIO

Soon all open data available at: <https://cohesiondata.ec.europa.eu/>

Leverage effect

Total EU budget available (ESIF): EUR 43 billion

National cofinancing: EUR 22 billion

Other resources included in the budgeting of smart specialisation strategies: up to 6 times more
(e.g. Private matching funds: EUR 10 billion)

(for info: H2020 ~ EUR 80 billion)

Achievements planned in Smart Specialisation

FIRMS

130 000

NEW DIRECT
JOBS

45 000

NEW
RESEARCHERS

30 000

START - UPS

5 000

RESEARCHERS
WITH NEW
INFRASTR.

72 000

PRIVATE
MATCH
INVESTMENT

€10 BLN

NEW TO
MARKET
PRODUCT

15 000

Source: S3
strategies
Courtesy DG
REGIO

Ex-ante conditionality

The RIS3 ex-ante conditionality requires EU Member States and regions to have a smart specialisation strategy in place that:

- is based on a SWOT or similar analysis to concentrate resources on a limited set of research and innovation priorities;
- outlines measures to stimulate private research, technology and development (RTD) investment;
- contains a monitoring and review system;
- sees a Member State has adopted a framework outlining available budgetary resources for research and innovation; and
- a Member State has adopted a multi-annual plan for budgeting and prioritisation of investments linked to EU priorities (European Strategy Forum on Research Infrastructures –ESFRI).

What's new in the Smart Specialisation approach?



Not a "Neutral" Policy

- S3 does not act only through horizontal measures that cut across the whole economy
- It requires policy makers to take the risk associated with selection of a limited number of activities to support



Choices Based on Entrepreneurial Knowledge

- No central and omniscient planner
- Interactive process of knowledge exchange and creation: the *entrepreneurial discovery process*

Hausmann and Rodrik 2003; Foray and Goenaga 2013; Foray 2015

Centrality of Entrepreneurial Discovery Process

Priority-Identification Process:

- 1. Entrepreneurial actors in abroad sense:** all actors potentially holding some type of entrepreneurial knowledge, from businesses to research institutions and the public administration
- 2. Interactive process where *different* actors can meet:** become aware of potential for synergies and complementarities, or explore experimental ideas
- 3. Shielded environment where actors can disclose information:** both virtual and physical space
- 4. Non-hierarchical process:** stakeholders in this process stand on the same foot as the administration

From the S3 Platform experience



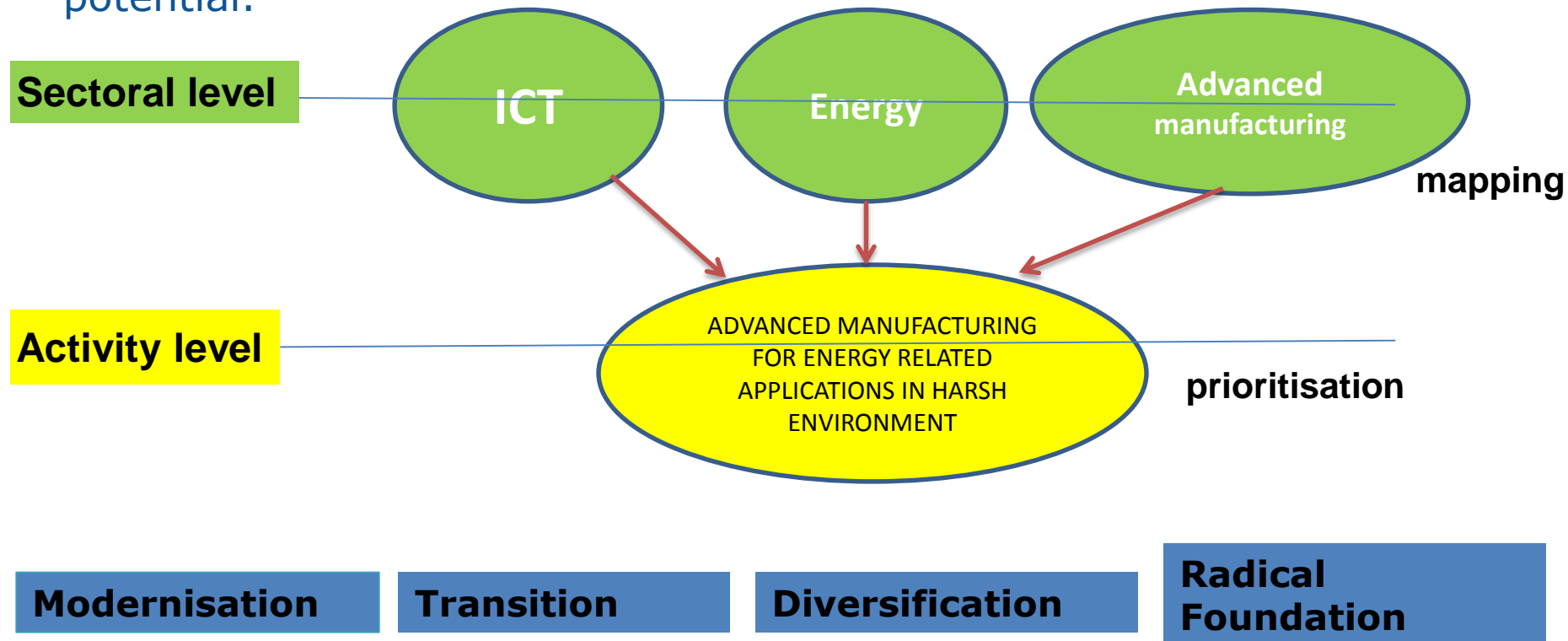
Public authority will **prioritise** those activities that:

- Have critical mass of entrepreneurial resources and capabilities
- Show stakeholders / entrepreneurs' commitment
- Are suitable to realize the strategic goals/meet the needs and challenges of the local economy and society

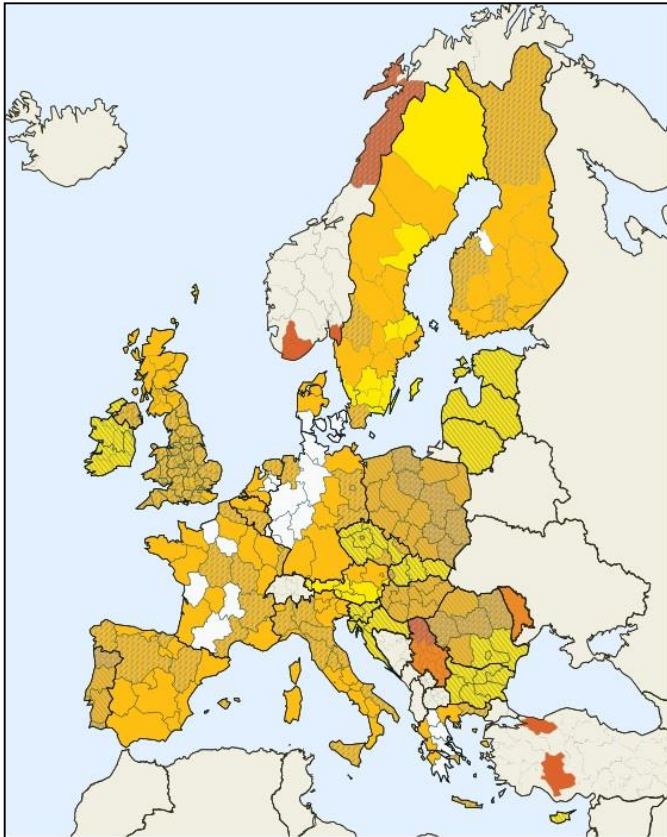
Smart specialisation priorities: crossroads between sectors, technologies, markets

Innovation is a combination of technologies, products, services, business models and behaviours – it is linked to networks, connections, value chains.

S3 is about developing new specialities / niches / market opportunities based on regional concentration of knowledge, competence and market potential.



Smart Specialisation Platform

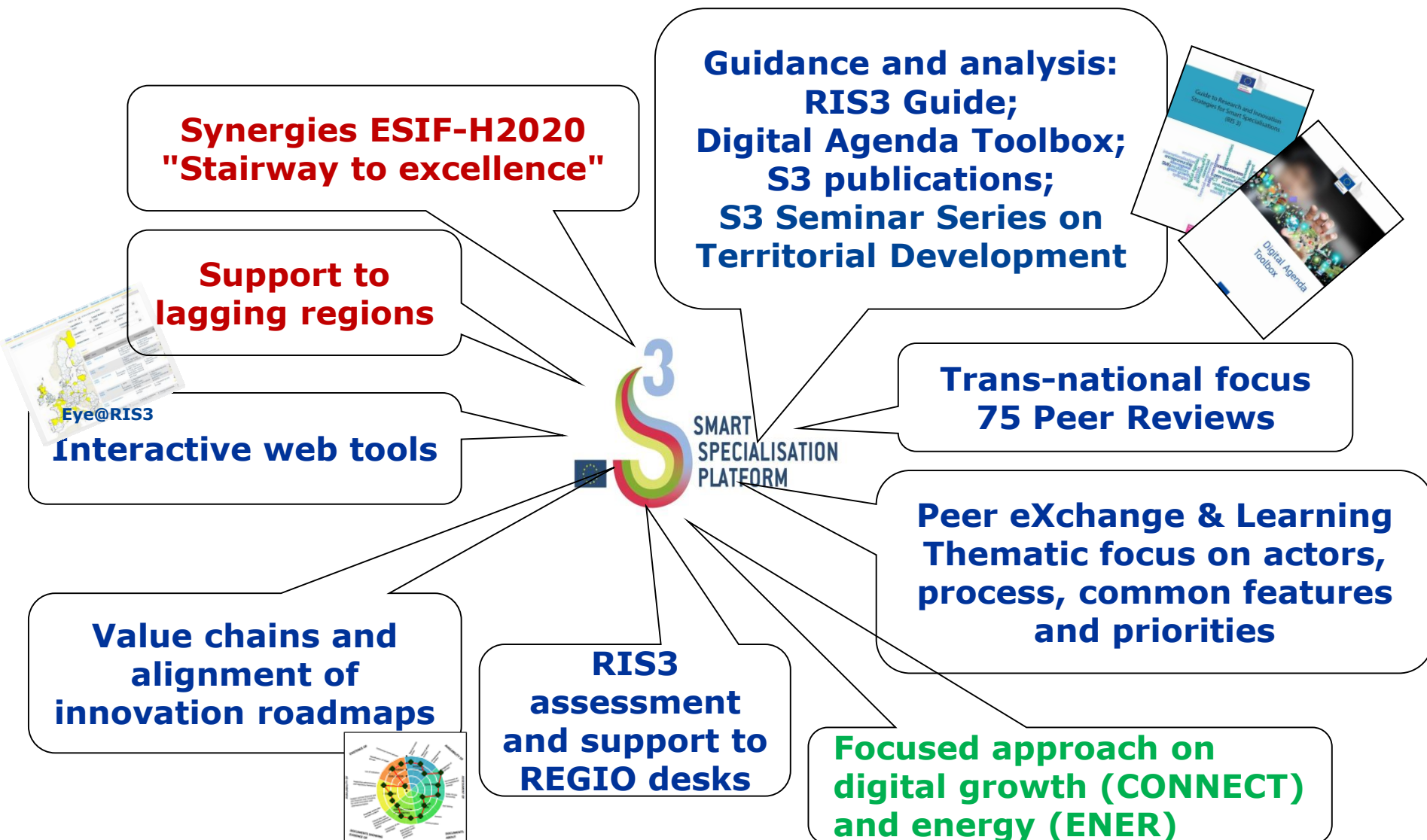


Created in 2011 to provide **science-based professional advice** to EU national and regional policy-makers for the establishment and implementation of their S3 strategies, make better use of the European Structural and Investment Funds (ESIF) and thus contribute to the Europe 2020 goals.

Some key data

- Wide **membership**: 171 regions + 20 countries
- Strong endorsement by national/regional policy makers: average 4.5/5 **satisfaction rankings** (86% rankings at least 4/5; 100% at least 3/5)
- High **“loyalty rate”**: > 50% of regions attending workshops come back

Main activities of the S3 Platform



S3 Platform - Knowledge base

Policy Briefs and Working Papers

The **S3 Policy Brief Series** targets policy-makers and practitioners and provides succinct analysis leading to policy recommendations.

The **S3 Working Paper Series** is more oriented towards an academic audience.



S3 tools

S3 Guidance: RIS3 Guide, Digital Agenda Toolbox and upcoming

RIS3 Implementation Handbook

RIS3 Assessment Wheel: to be used by policy-makers to position their RIS3

Benchmarking Regional Structure: an interactive tool to identify reference regions

structural similarities

EYE@RIS3: on line mapping tool/database on regions' RIS3 priorities

EU Trade and Competition tool: mapping tool based on imputed bilateral trade flows

relative position of regions in the European trade network

ICT Monitoring Tool: on line mapping tool/database on regions' digital growth investments

S3 Peer review

Development of a codified **methodology** to foster transnational mutual learning and cooperation (now used beyond regional smart specialisation strategies)

75 peer review **feedback reports**



that

Eye@RIS3 – an online database for S3 priorities

- Enables regions to position themselves, and
- to seek out potential partners for collaboration

- Data from regional and national RIS3 strategies
- Four dimensions, short text descriptions, connections to EU policies, regional capabilities and target markets
- Not perfect matches, but an easy to use tool to give initial indications
- More than 1,200 regional priorities

Pohjois-Pohjanmaa Refresh Match: All of the following fields:

Capabilities Select Target Market Select EU Priority Select

Capabilities (Subcategory) Select Target Market (Subcategory) Select EU Priority (Subcategory) Select

Region Name Description Export

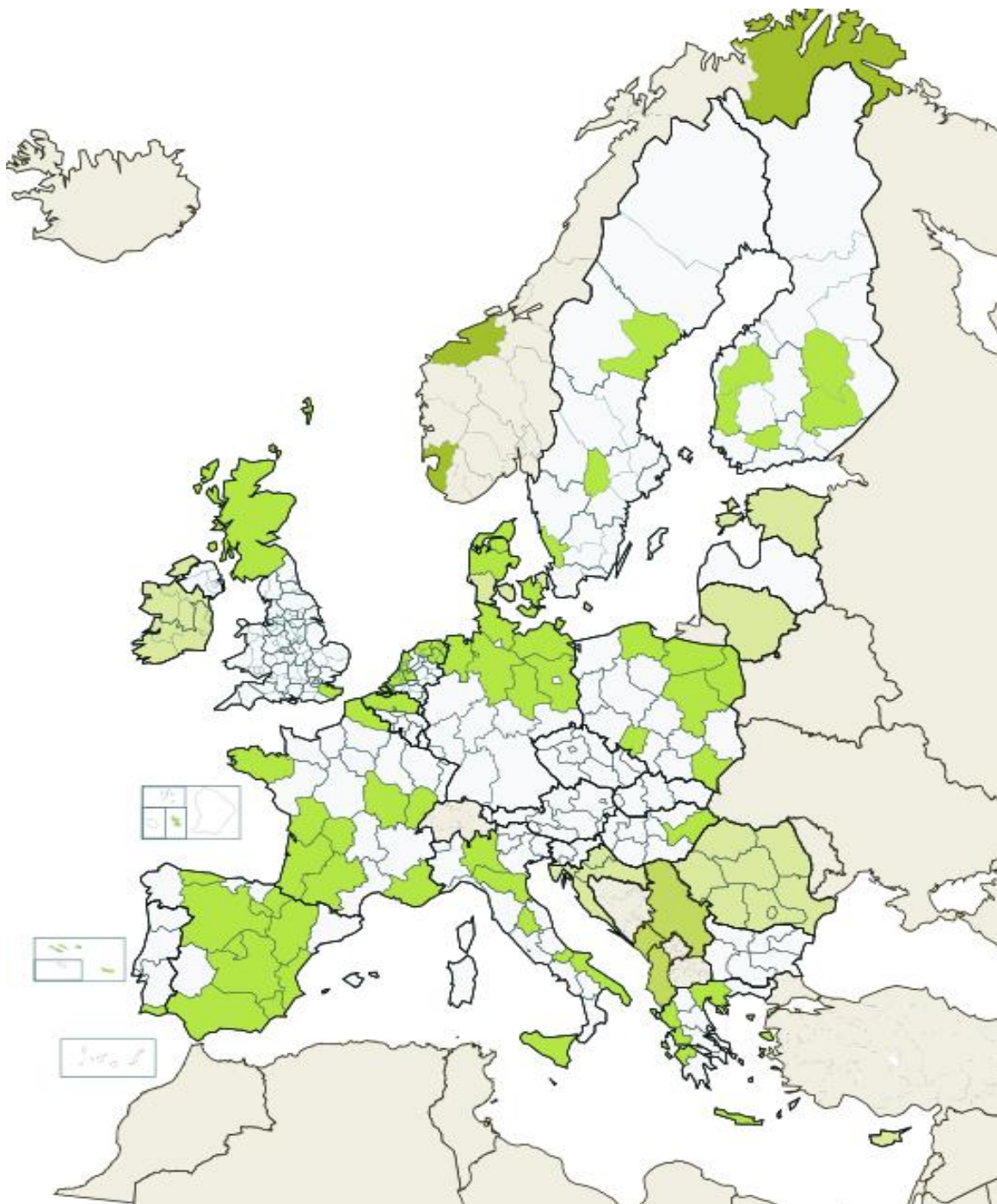
Published Published

Search

Region Name	Description	Capabilities	Target Market	EU Priority	Actions
Pays de la Loire	Eco-technologies...	1. Information and communication technologies (ICT)	1. Energy production and distribution	1. Sustainable innovation 2. Eco-innovations	Actions
Friesland (NL)	Water technology	1. Manufacturing and industry 2. Electrical equipment	1. Water supply, sewerage, waste management and remediation activities 2. Water collection,	1. Sustainable innovation 2. Eco-innovations	Actions

Agrifood

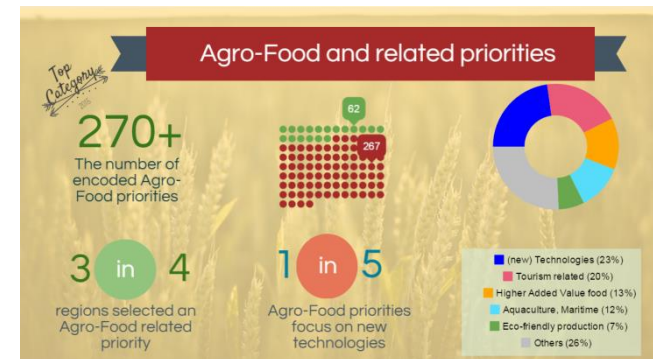
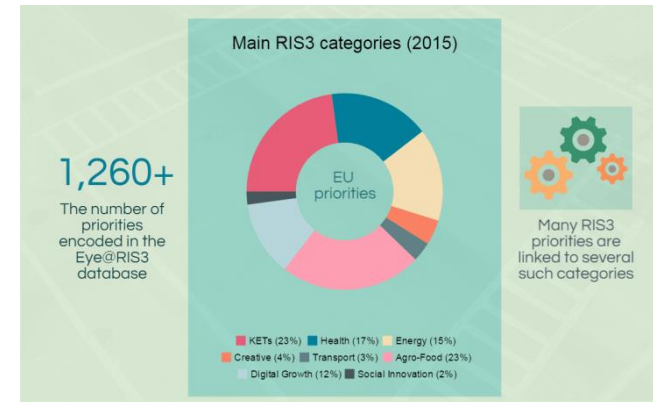
Regions with
common
target priorities



Source: Eye@RIS3

• Value chains and smart specialisation

- **What is it about?** The S3 Platform has recently launched a new and exciting project to assist regions in their efforts to facilitate the development of **new value chains through the interconnection of regional eco-systems** and their actors in triple/quadruple helix in specific S3 investment areas.
- **Why now?** S3 is an engine for the development of European eco-systems that are necessary to gather critical mass for market breakthroughs.
- **How?** The S3 Platform will provide a **multi-level support mechanism, combining efforts at regional, national and European level**, which addresses the particular market and system failures that prevent breakthroughs, starting with information and coordination failures and demand uncertainty. The development of interregional collaboration will be driven by opening-up regional smart specialisation strategies.



Growing interest to apply smart specialisation in other policy contexts (I) – The territorial element

EU neighbourhood policy (2015 review)

EU urban agenda (2016)

EU Macro-regional approach

Rural and local development?

Development and co-operation?

Growing interest to apply smart specialisation in other policy contexts (II) - The link to industrial policy

The Commission proposes to Member States to **combine regional and industrial policy tools to create Smart Specialisation Platforms** to help regions roll out smart specialisation programmes by facilitating contacts between firms and clusters, enabling access to the innovative technologies and market opportunities.

EC Communication: For a European Industrial Renaissance (2014)

Establishment of thematic smart specialisation platforms on industrial modernisation, agri-food and energy (2016).

Focus of some EU cluster policy and energy policy tools on smart specialisation priorities.

Link to the regional innovation scheme of the EIT.

"Smart specialization program of European Commission is currently the biggest experiment in innovation and industrial policy in the world and possibly biggest ever undertaken." (Kuznetsov-Sabel, World Bank and Columbia University, 2016)

Growing effort to enhance cross-linkages between policies, institutions and their departments

Thematic smart specialisation platforms

(industrial modernisation: JRC, REGIO, GROW)

(agri-food: JRC, REGIO, AGRI, RTD)

(energy: JRC, REGIO, ENER)

Knowledge exchange platform (RTD, CoR)

Innovation camps (CoR, JRC)

Support to governance processes in lagging regions (JRC, REGIO)

Stairway to Excellence (JRC, REGIO, RTD, EIT)

Beyond the EU

Australia, Brazil, Chile, Colombia, Mexico, Moldova,
Norway, Serbia, Tunisia,
Turkey and Ukraine



SMART SPECIALIZATION BOGOTA

