





Regions and cities, pillars of the EU's future









What is Smart Specialisation?

- A place-based approach to research and innovation (R&I) policy that aims to boost growth and jobs in Europe
- Based on a SWOT or similar analysis to identify region's own competitive advantages
- Through concentration of resources on a limited set of R&I priorities (preferably going beyond sectoral definitions) in which innovation can most readily occur
- Regional priorities are identified through an open dialogue between policy makers, industry, research and education institutions and civil society

The development of **Regional R&I Smart Specialisation Strategies (RIS3)** was introduced as an **ex-ante condition** to access cohesion funds for R&I in the 2014–2020 period (ERDF, TO1)

→ Over 120 smart specialisation strategies have been developed





The Smart Specialisation Platform

The S3 Platform provides advice to EU countries and regions for the design and implementation of their S3:

- Provide <u>guidance material</u>: RIS3 Guide, Implementation Handbook, Digital Agenda Toolbox, Good practice examples...
- Support access to relevant <u>data and tools</u>:
 S3 priorities (Eye@RIS3), Regional Benchmarking,
 Energy and ICT ESIF Monitoring, Digital Innovation
 Hubs...
- Facilitate <u>peer-reviews and mutual learning</u>
- <u>Train</u> policy-makers: MOOC...
- Analyse: Conceptual and empirical developments, policy briefs, working papers...



European Commission



S3 in Practice: Supporting Innovation-led Growth in EU Regions

Several challenges have been identified:

- Challenge 1: Develop a stronger place-based regional innovation ecosystem through **improved internal connectivity** (between different policies, between existing industrial and knowledge provision actors...)
- Challenge 2: Grow a larger, stronger and more dynamic regional innovation ecosystem by opening it up and connecting it to macro-regional and European knowledge networks and systems of innovation.
- Challenge 3: Create economic growth through innovation expanding across borders.





Implementing S3 through transnational and interregional cooperation

3 Thematic Smart Specialisation Platforms have been set since 2015:

- Provide interactive and participatory environment supporting interregional cooperation
- Offer hands-on support to regions committed to implement together their S3 in European strategic growth areas







Implementing S3 through transnational and interregional cooperation

- > To **connect** regional innovation eco-systems
- > To exploit **complementing strengths**, avoiding duplication of RIS3 investments and efforts
- > To overcome interregional fragmentation and lack of critical mass across the EU
- > To **improve the existing business environment** by identifying barriers to innovation, new investment or skills.
- To get access to wider business and knowledge network
- ➤ To join, enhance and even create new **EU value chains** in specific areas linked to their S3 priority areas, **expanding business opportunities** & realising **joint investment projects**
- To develop shared infrastructures
- > To **build synergies** with other regional, national and EU networks and initiatives
- > ...





S3 Interregional Partnerships

Based on their local priorities, the EU regions have found areas of common interest and joined forces within S3 Interregional **Partnerships**.

The **bottom-up** component in this process has resulted in a wide variety of thematic partnerships, driven by a **broad range of actors**.

- Currently 32 partnerships in total
- 197 territorial administrative units
- ✓ Organised shared spaces for joint demonstration of solutions
- ✓ Coalitions of committed partners: politically committed lead-regions + active partners (leading-by-example)
- ✓ Mobilising bottom-up cluster actors for forging new business opportunities.





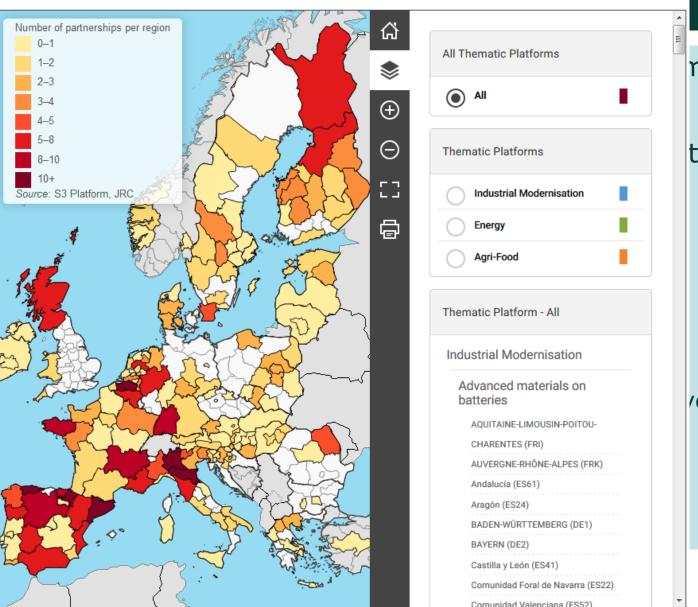
S3 Thematic Platforms Map

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S3 Platform on **Industrial Modernisation**

Legend:

Participating regions

Leading regions

It aims to support EU regions committed to generate a pipeline of industrial investment projects following a bottom-up approach - implemented through interregional cooperation, cluster participation and industry involvement.

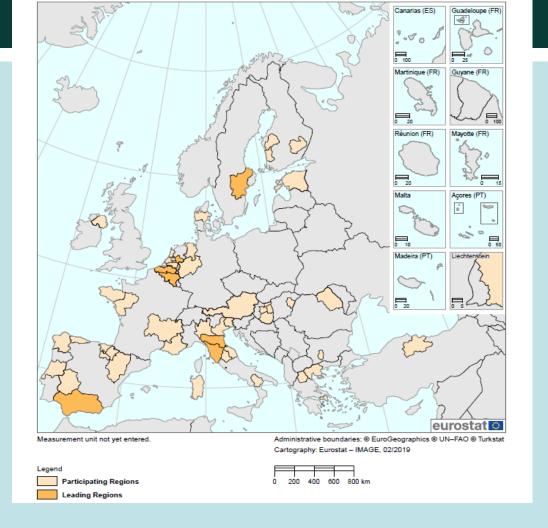
EC DGs involved: DG REGIO, DG GROW, DG RTD and JRC





S3 Platform on **Agri-food**

- 52 territorial administrative units
- 5 partnerships:
 - Consumer Involvement in Agri-Food (4 regions/MS),
 - High-tech Farming (27)
 - Nutritional Ingredients (10)
 - Smart Sensors for Agri-Food (15)
 - Traceability and Big Data (21)
- 7 leading/co-leading regions
- Many participating regions come from: Italy (8), Spain (8), France (5), Hungary (4) and The Netherlands (4)
- EC DGs involved: DG AGRI, DG REGIO, DG RTD and JRC











Smart Sensors 4 Agri-



High Tech Farming Traceability & Big Data

Nutritional Ingredients

in Agri-Food

Consumer Involvement



S3 Platform on Energy (SP3Energy)





have been allocated from the Cohesion Policy to support investment in the low carbon economy transition (Thematic Objective 4)

Objectives:

- 1. Support the implementation of the S3 of the regions/countries that have chosen energy-related priorities in their RIS3 (TO1)
- 2. Assist countries in the optimal uptake of the Cohesion Policy funding opportunities for energy (TO4 & TO7e) co-funding opportunities
- · Joint action between DG REGIO, DG ENER and JRC



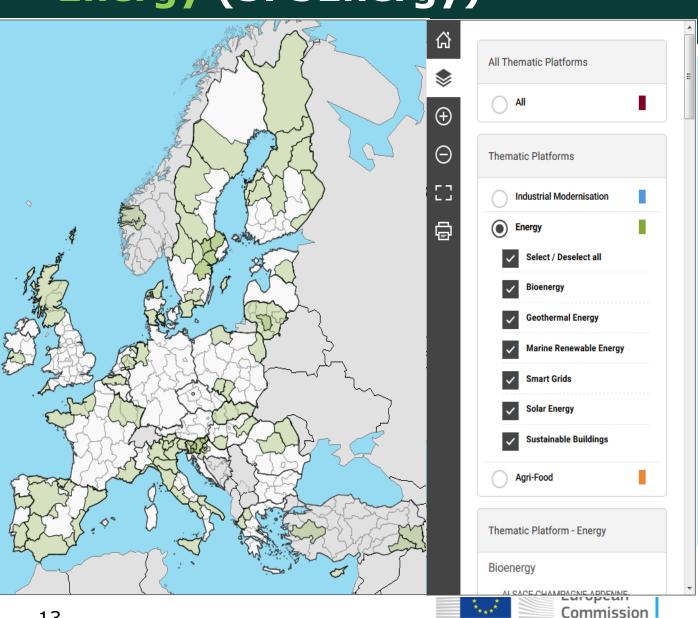




S3 Platform on **Energy (SP3Energy)**

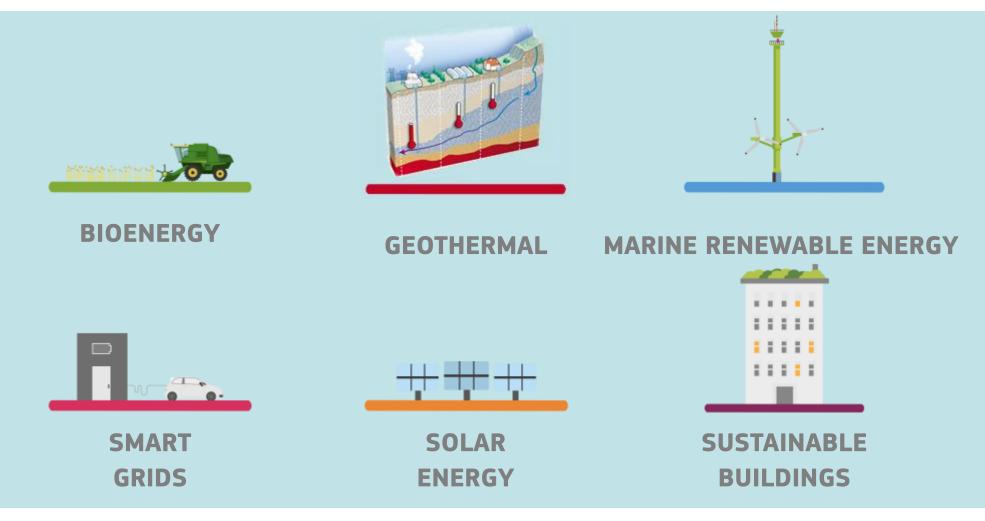
- 6 partnerships
- Heating & Cooling initiative
- 89 territorial administrative units, in 27 different countries

http://s3platform.jrc.ec.europa.eu/s3p-energy





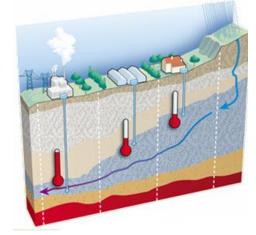
SP3Energy Partnerships





Interregional partnership for Smart Specialisation on **GEOTHERMAL ENERGY**





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REGIONS

ES: Asturias, Canary Islands;

FI: Northern Ostrobothnia (Pohjois-Pohjanmaa; Oulu);

IT: Tuscany, Lombardy;

NL: Arnhem/Nijmegen, East Netherlands, Groningen city;

PT: Azores;

UK: Scotland;

TK: West Turkish provinces (Zafer)



Partner regions of the **S3 Partnership Geothermal** Energy 2.0 will share, test and jointly develop new solutions that can help overcoming existing gaps and concerns in the geothermal sector, by developing a new governance model respecting territories and supporting private businesses





Interregional partnership for Smart Specialisation on **BIOENERGY**



Leaders

Lapland (FI) and Castile and Leon (ES)



Castile and Leon

16

(ES)



Reference topics



Biofuels

(bioethanol.

biogas)



H&C







on biomass feedstock. (biomass-based) installations and energy consumption



Electricity

(forestry power plants, agriculture power plants)



This interregional partnership aims at developing a collaborative framework to facilitate joint business among EU regions with bioenergy-related priorities in their Smart Specialisation Strategies.





Interregional partnership for Smart Specialisation on MARINE RENEWABLE ENERGY (MRE)

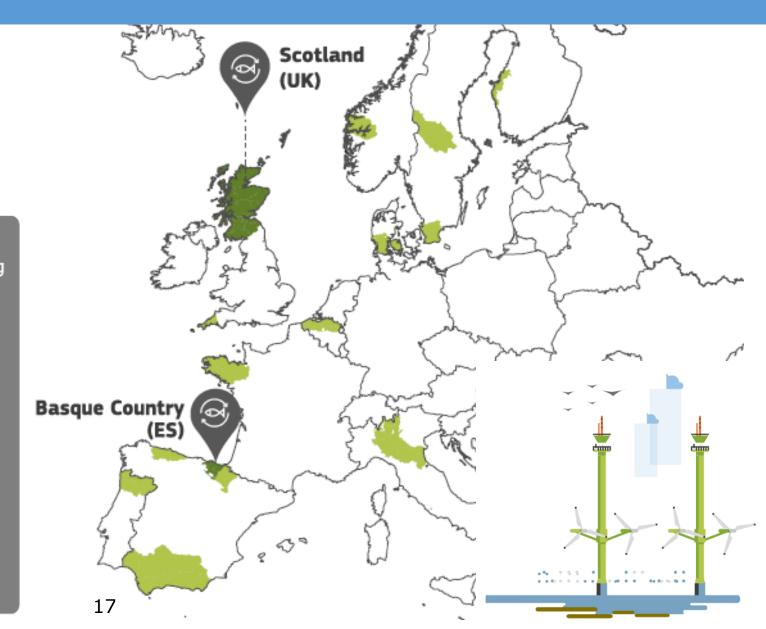


Scotland (UK) and **Basque Country** (ES)

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REGIONS

The Marine Renewable Energy (MRE) partnership builds on the work and experience of the Advanced Manufacturing for Energy Applications (ADMA Energy) pilot within the Vanguard Initiative (VI), which is active across the blue economy and subsea sectors. The partnership seeks to apply expertise gained in the ADMA Energy pilot to demonstration specifically in the MRE sector, with an initial focus on sensing remote monitoring as sensing is a key enabling technology for the developing of offshore, wave tidal, and other MRE areas.

This partnership has been awarded by the European Commissions' DG Regio with an Interregional Innovation Project – Pilot Action, specifically focussed on addressing cross-regional investment projects in the area of sensing and remote monitoring.





Interregional partnership for Smart Specialisation on **SMART GRIDS**,



Leaders

Provence-Alpes-Côte d'Azur (FR) and Basque Country (ES)

REGIONS AND MEMBER STATES

Basque Country (ES)

Provence-Alpes-Côte d'Azur (FR)



partnership is to increase the competitiveness of the partner regions by collectively fostering new business opportunities in order to develop an overall approach to the value chain of smart grids.



European Commission





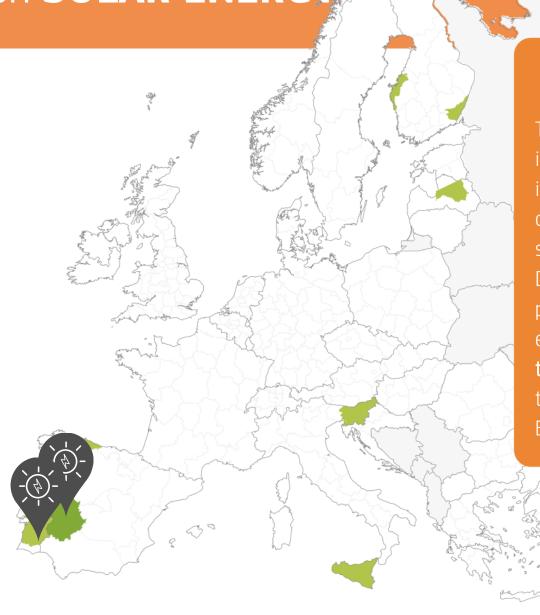
Interregional partnership for Smart Specialisation on SOLAR ENERGY



Extremadura (ES) and Alentejo (PT)

> **REGIONS AND MEMBER STATES**





The aim of the partnership is to increase the implementation of the cooperation mechanisms set up under the RES Directive across Europe, promoting electricity exports from **solar** technologies from Southern to Central and Northern European countries.

> European Commission



Interregional partnership for Smart Specialisation on **SUSTAINABLE BUILDINGS**



The Sustainable
Buildings Partnership
was established to
identify and solve key
industrial challenges in
the existing buildings
and construction sector.



Andalusia (ES), North Great Plain (HU) and North West Croatia (HR)

REGIONS AND MEMBER STATES

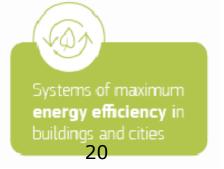


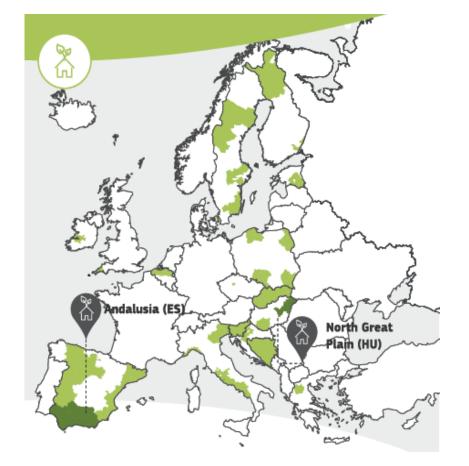
Reference topics





Renewable energy integration in buildings





The S3PEnergy **HEATING & COOLING Initiative**

Objective: to support regions to improve their H&C strategies and to enhance their chances to access EU funds for their projects.

3 workshops with regional representatives and experts: info about available technologies, good practices examples of implementation of H&C strategies and financial options.

4 public reports: (1) workshop summaries; (2) available EU funding sources; (3) case studies on EU funding strategies for four H&C projects from this initiative, and (4) an overview of the activities performed in the project.

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REGIONS AND
MEMBER STATES



https://s3platform.jrc.ec.europa.eu/heating-and-cooling

Publications



Overview of activities performed in the heating and cooling initiative of the smart specialisation platform for energy

□ Technical Report

CARLSSON Johan; JIMENEZ NAVARRO Navarro Juan Pablo; BERTOLDI Paolo; SEIGNEUR Isabelle



Identification of EU funding sources for the regional heating and cooling sector

External study report made for the Joint Research Centre

> Veen, Roel van der; Kooijman, Esmee



Workshop on regional heating and cooling priorities and financing in the framework of the Smart Specialisation Platform (S3P-E H&C)

EUR - Conference and Workshop report by the Joint Research Centre

BOZA-KISS Benigna, CARLSSON Johan, JIMENEZ NAVARRO Juan Pablo, BERTOLDI Paolo

S3PEnergy support activities

- EUSEW 2018, Brussels: Financing options for S3 implementation in Energy
- March 2019, Seville: TAIEX-REGIO Multicountry Workshop on State Aid Map in Energy Sector
- July 2019, Budapest: Learning Lab on "Supporting the effective uptake of Cohesion Policy funds in energy - S3 as a tool to enhance innovation capabilities in EU13", jointly with Stairway to Excellence (S2E)
- Good practices in Energy and S3
- Social Innovation examples in Energy and S3
- etc.







Thank you!



More information:

http://s3platform.jrc.ec.europa.eu

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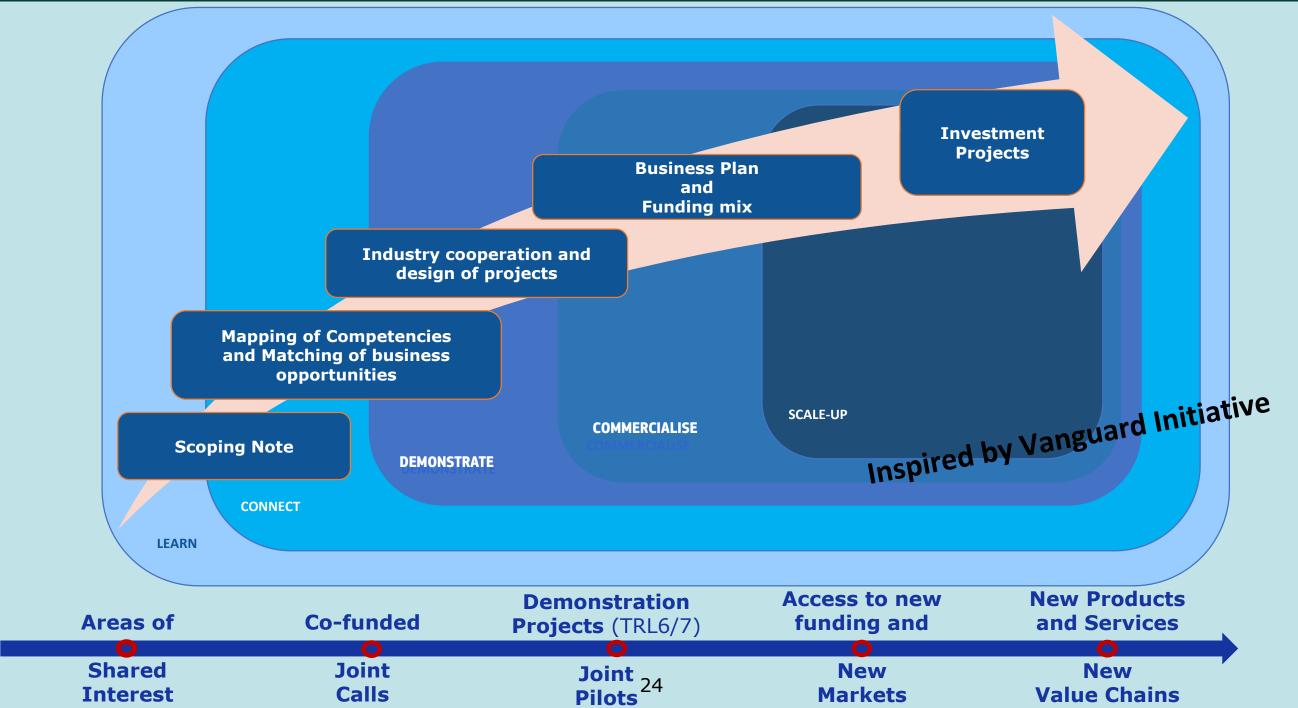
@S3Platform #S3PEnergy

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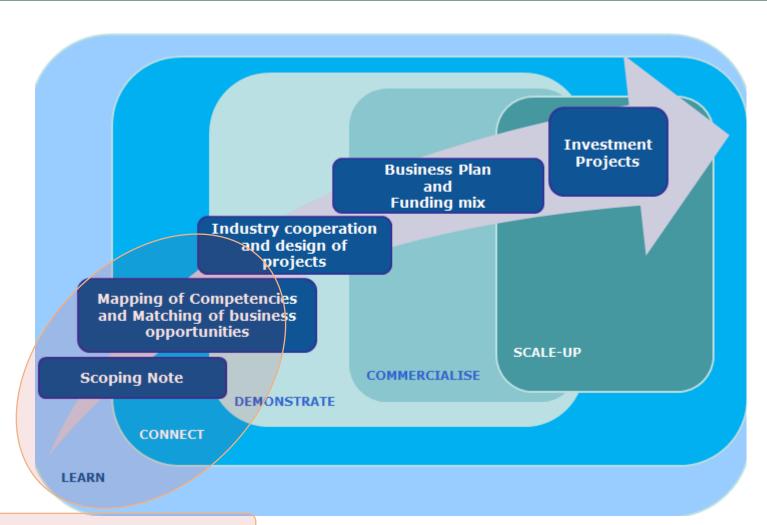


S3 Thematic Partnerships - Methodology





S3P support: Methodological Manual



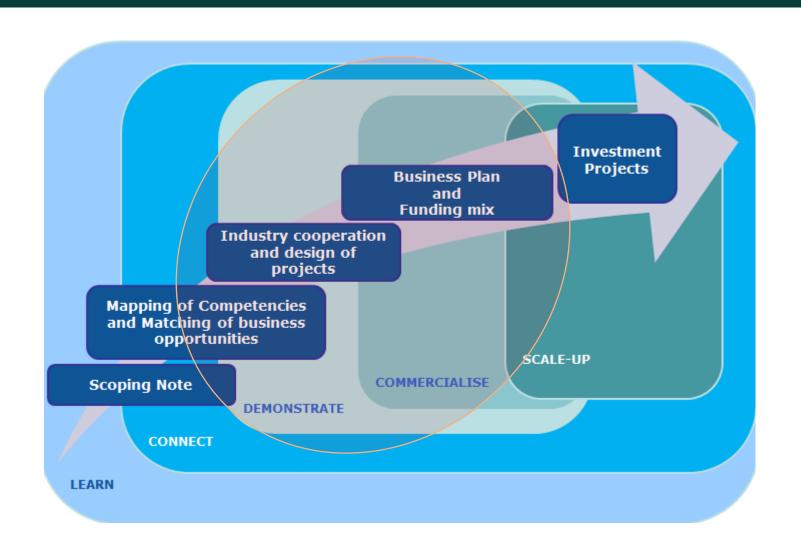
To assist public authorities responsible for *designing and delivering interregional investment projects* in the S3 context and ensure that these joint projects attract private sector interest sufficient to ensure their sustainability.



JRC S3 Platform support



S3 Interregional Innovation Projects: Pilot Actions



Under the Energy Platform, two **pilot projects** are in place from 2018, supported by DG REGIO with technical assistance:

- "Smart Campus" Pilot, part of the Sustainable Buildings Partnership, to improve the energy efficiency of University Campuses
- 2. "Sensing and Remote Monitoring" Pilot, part of the Marine Renewable Energy Partnership

What is Smart Specialisation?

- = <u>Evidence-based</u>
 <u>considering all assets and</u>
 <u>problems in a region</u>, incl.
 External perspective / internal /
 global market
- = No top-down decision, but dynamic /entrepreneurial discovery process uniting key stakeholders around shared vision
- = Mobilisation of investments and <u>synergies across different</u> <u>departments and governance</u> <u>levels</u> (EU-national-regional)
- = <u>All forms of innovation</u> not only technology driven also social

- = <u>Differentiation</u>: SWOT analysis (all types of assets), <u>competitive</u> advantages, potential for excellence, opportunities
- = <u>Concentration of resources</u> on priorities, problems and core needs (no sprinkler principle, no picking the winners, yes to catalytic investments)
- = <u>Place-based economic</u> <u>transformation</u>: rejuvenating traditional sectors through higher value-added activities, cross-sectoral links, new market niches by sourcing-in and disseminating new technologies rather than re-inventing the wheel; exploiting new forms of innovation

