

Smart Specialisation Platform on Energy

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European Commission**

S3PEnergy: <http://s3platform.jrc.ec.europa.eu>



The concept of Smart Specialisation (S3) as a place-based innovation policy

What is Smart Specialisation?

- A **place-based approach** to research and innovation that aims to boost growth and jobs in Europe
- The aim is to identify and develop a **region's own competitive advantages**: select in each region a limited number of 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 Smart Specialisation Strategies (RIS3)**
= introduced as an ex-ante condition to access cohesion funds for Research and Innovation in the 2014 – 2020 period

→ Over 120 smart specialisation strategies have been developed

What is Smart Specialisation ?

= Evidence-based considering all assets and problems in a region, 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 synergies across different departments and governance levels (EU-national-regional)

= All forms of innovation – not only technology driven also social

= Differentiation: SWOT analysis (all types of assets), **competitive advantages**, potential for excellence, opportunities

= Concentration of resources on priorities, problems and core needs (no sprinkler principle, no picking the winners, yes to catalytic investments)

= Place-based economic transformation: 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



Smart Specialisation Platform



Inside the European Commission - Support to various policy DGs

Outside the Commission - Support to countries and regions developing and implementing their RIS3 and to their 'triple/quadruple helix' partnerships

In the scientific community - Contribution to the conceptual and methodological debate around smart specialisation

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2018 SMARTER Conference on Smart Specialisation

The conference offers a comprehensive picture of S3 policy experience and highlights recent developments both conceptually and empirically. It will take place from the 26th to 28th September 2018 in Seville (Spain).

What we can do for you

The S3 Platform provides advice to EU countries and regions for the design and implementation of their Smart Specialisation Strategy (S3):

- Provide guidance material and good practice examples
- Inform strategy formation and policy-making
- Facilitate peer-reviews and mutual learning
- Support access to relevant data
- Train policy-makers

S3P Calendar

March 2018

M	T	W	T	F	S	S
26	27	28	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	1

S3 Thematic Platform S3 Governance
S3 Targeted Support S3 Actors
S3 Cooperation S3 Communities

Thematic Platforms Guidance Targeted Support

Reports & Publications

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

Promote Transnational learning, Interregional collaboration via:

Supporting tools: Regional priorities (Eye@RIS3), Regional Benchmarking, ICT Monitoring, Digital Innovation Hubs...

Guidance: RIS3 Guide, Implementation Handbook, Digital Agenda Toolbox, Good Practice Examples, FAQs...

Analysis: Conceptual and empirical developments, Policy Briefs, Peer Reviews, Working Papers...

Smart Specialisation Platform



SMART SPECIALISATION PLATFORM

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S3P Agri-food Working Committee Semi-annual Meeting

Many partnership activities on Agri-food are built on regular exchanges between the European Commission services and European regions leading and/or taking part in various thematic partnerships (Sainjoki, Finland on 11 June 2018).

What we can do for you

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- Provide guidance material and good practice examples
- Inform strategy formation and policy-making
- Facilitate peer-reviews and mutual learning
- Support access to relevant data
- Train policymakers

Thematic Platforms Guidance Targeted Support

S3 Cooperation Communities & Actors Governance

Smart Regions

SMART REGIONS

The Smart Specialisation Platform

The Smart Specialisation Platform

The Kingdom of Smart

S3 Tools

These various tools are designed to support S3 implementation and monitoring.

Eye@RIS3 ESIF - viewer ESIF - Energy

ESIF - Digital Regional Benchmarking EU Trade

R&I Regional Viewer Digital Innovation Hubs

S3P Calendar

June 2018

M	T	W	T	F	S	S
28	29	30	31	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	1

S3 Thematic Platforms S3 Governance

S3 Targeted Support S3 Cooperation

S3 Communities

Reports & Publications

RIO - Research & Innovation Observatory

S3 Platform

Victoria Bodnarova, the regional EURAXESS North America representative, visited the SmartSpecialisation Platform for the scientific seminar "European Science and Innovation Diasporas in North America". So productive workshop europe.eu/mcgsrv @euraxessna

3 days

More tweets

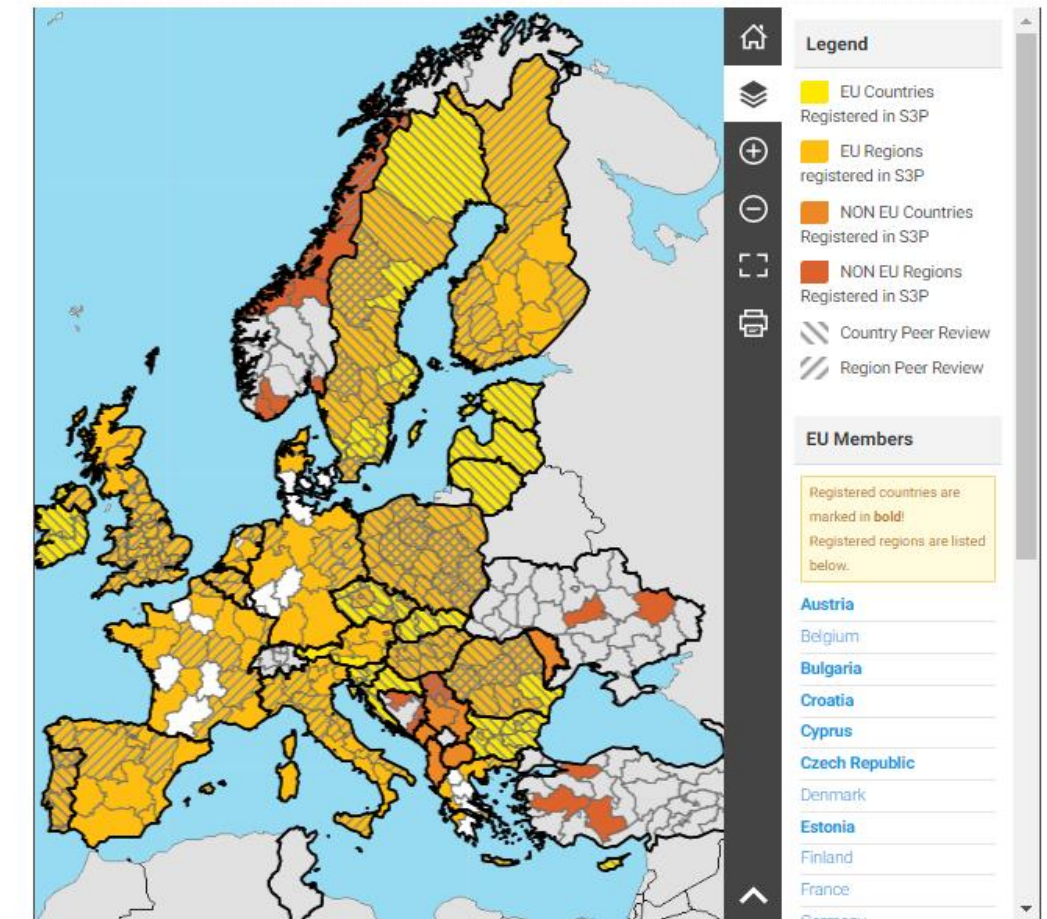
S3 in the Media

on Platform / S3 Platform / Registered Regions

Tools News Events Knowledge Repository

Search

Registered countries and regions in the S3 Platform



Leaflet | Boundaries of all countries | Disclaimer

S3 Thematic Platforms: Agri-Food, Energy and Industrial Modernisation

Building on the interregional dimension of S3,

3 Thematic Smart Specialisation Platforms have been set

→ offering hands-on support to regions committed to implement their **S3 in European strategic growth areas**



Interregional Cooperation

S3 Implementation and reasons for opening up

- To **connect** regional innovation eco-systems
- To exploit **complementing strengths**, avoiding duplication of investments and efforts in R&I
- 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 initiatives: H2020, SET-Plan, etc.
- ...

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 and supported by various stakeholders

- Currently **32 partnerships in total**
- 177 territorial administrative units

- ✓ **Outward** perspective for RIS3: **positioning** of priorities & **upscaling** regional innovation efforts
- ✓ Exploit **complementarities** between RIS3 investments in co-creating **EU value-chains** in S3 partnerships
- ✓ Coalitions of **committed** partners: **politically** committed lead-regions + **active** partners (leading-by-example)
- ✓ Organising shared spaces for **joint demonstration** of solutions
- ✓ Mobilising **bottom-up** cluster actors for forging new business opportunities

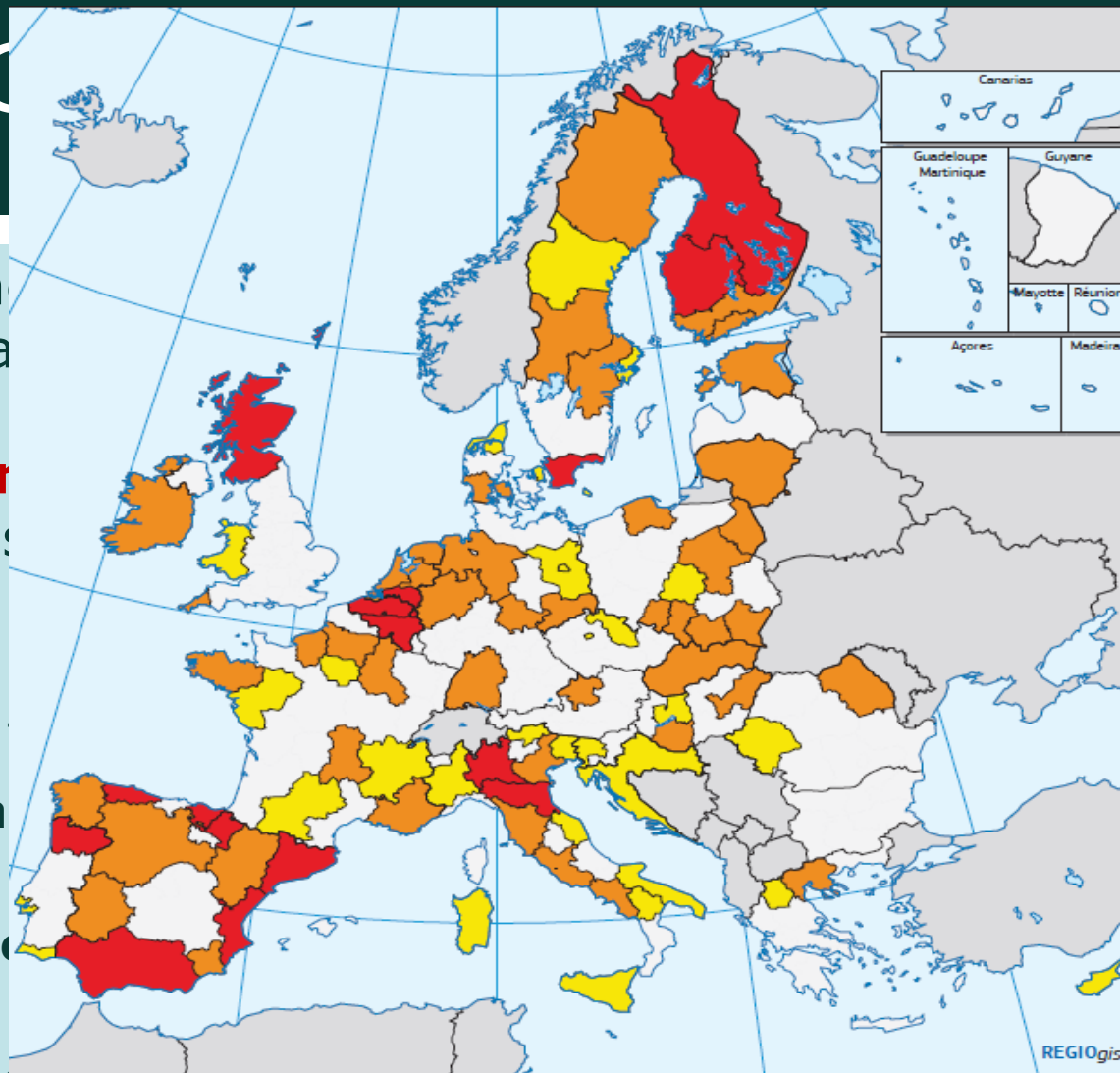
S3

ships

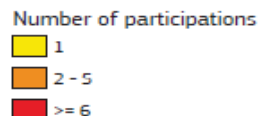
The **bottom-up** component consists of territorial partnerships, driven by a

- Currently **32 partnerships**
- 177 territorial administrations

- ✓ **Outward** perspective
- ✓ Exploit **complementary** partnerships
- ✓ Coalitions of **committed** (leading-by-example)
- ✓ Organising shared space
- ✓ Mobilising **bottom-up**



Thematic Smart Specialisation Platforms:
Which regions participate and in how many different partnerships?



Source: JRC, DG REGIO

variety of thematic
various stakeholders

regional innovation efforts
EU value-chains in S3

s + **active** partners

nities

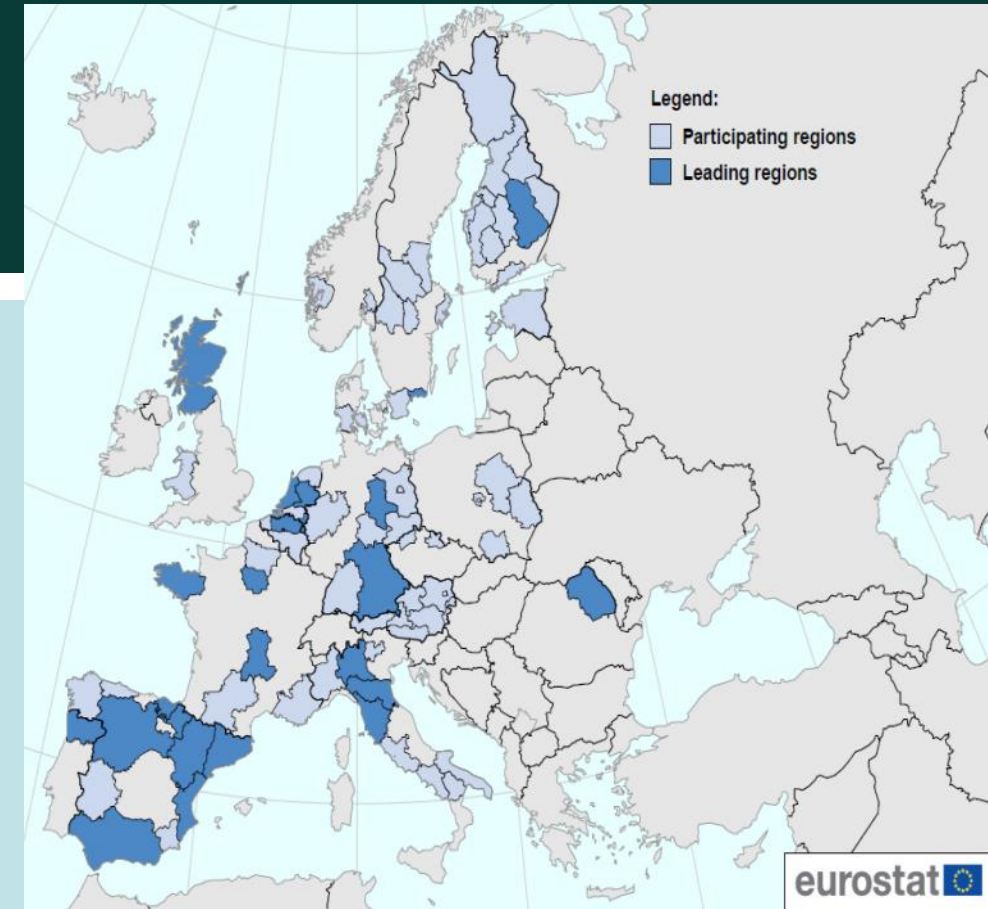
S3 Platform on Industrial Modernisation

Main objectives

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.

- **21 partnerships**
- **106 territorial administrative units**

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



Advanced manufacturing



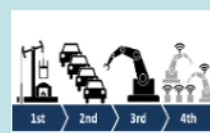
Non-food Biomass



Efficient and Sustainable Manufacturing



3D-Printing



SMEs to the Industry 4.0



Sport



Digitalisation and Safety for Tourism



European Cyber Valleys



Social Economy



Artificial Intelligence & Human Machine Interface



Personalised medicine



New Nano-Enabled Products



Textile Innovation



Medical technology



Photonics



Chemicals



Safe and sustainable mobility



Advanced materials for batteries



Mining industry



Water Smart Territories

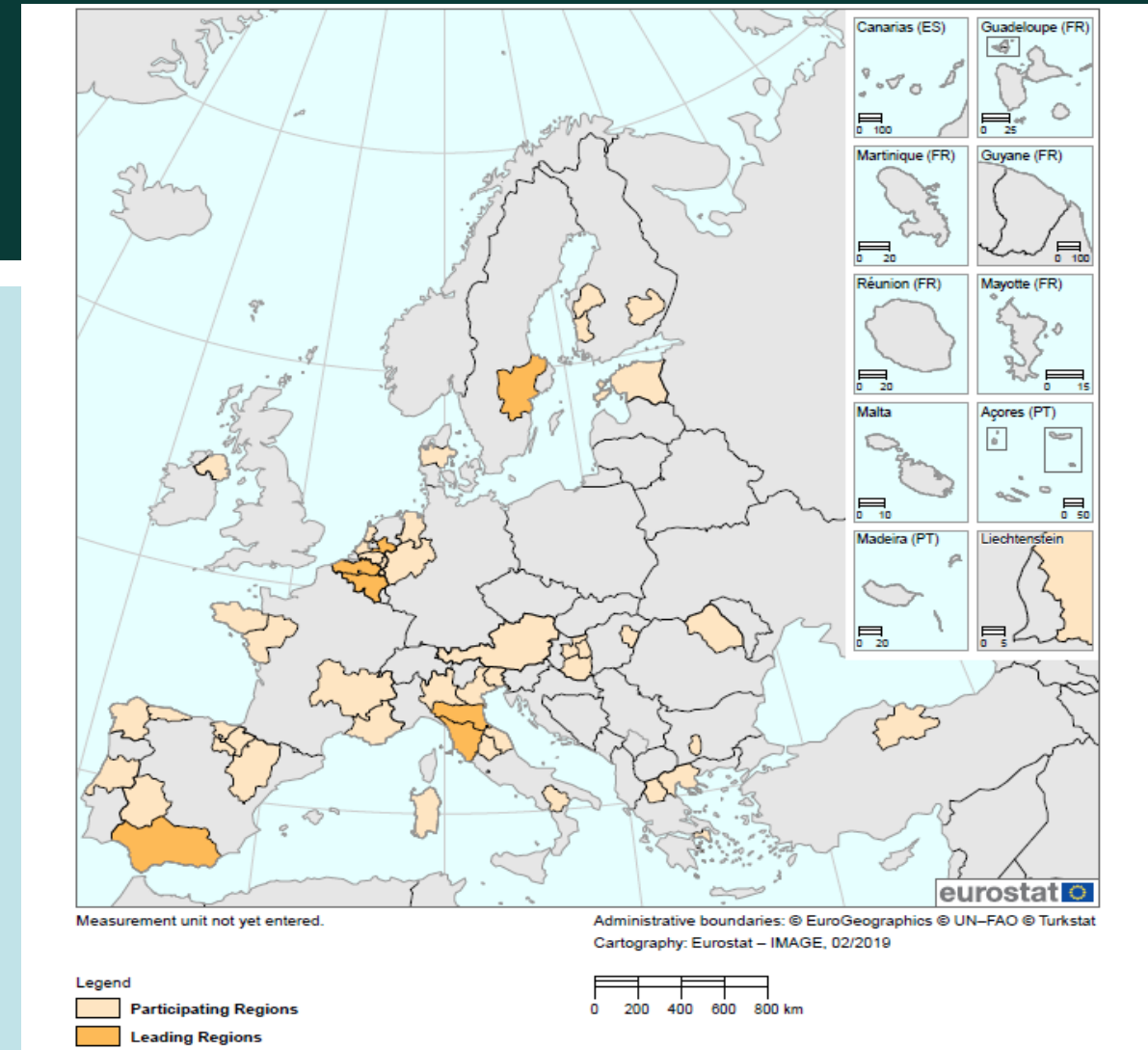


Hydrogen Valleys

S3 Platform on Agri-food

- **51 territorial administrative units**
- The majority of participating entities are located in Italy (9), Spain (8), France (4), Hungary (4) and the Netherlands (4)
- Austria, Estonia and Slovenia participate at national level
- Many regions participate in more than one partnership (e.g. Galicia in 4, other 5 regions is participating in 3 partnerships at the same time)
- **5 partnerships:**

Consumer Involvement in Agri-Food (4), High-tech Farming (27), Nutritional Ingredients (10), Smart Sensors for Agri-Food (15), and Traceability and Big Data (21)



S3 Platform on Energy (SP3Energy)



2/3 of all **MS**/regions have chosen an energy-related priority in their RIS3!

€40 BILLION

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

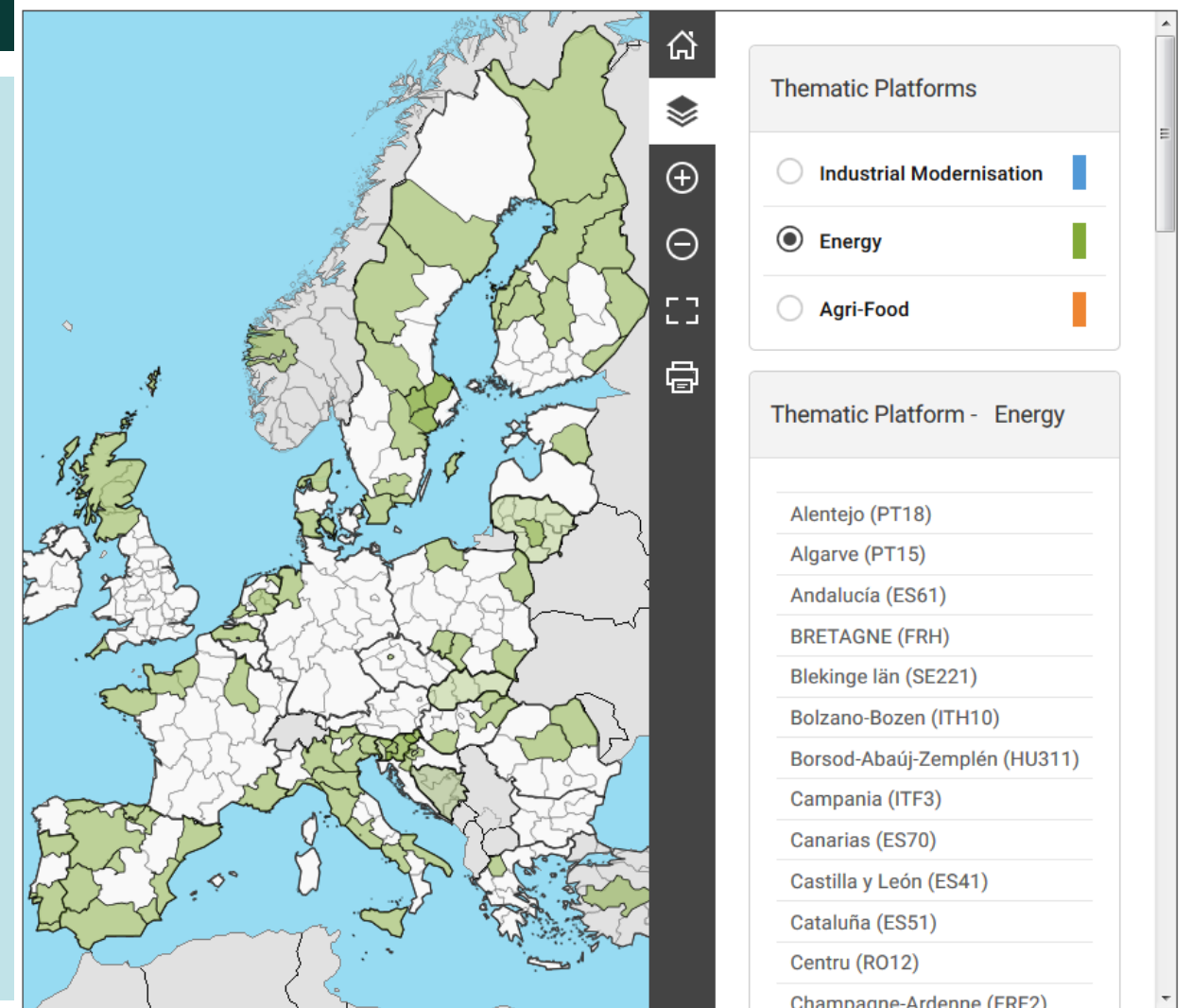
- Joint action between **DG REGIO, DG ENER and JRC**



S3 Platform on Energy

- 6 partnerships + H&C initiative
- 89 territorial administrative units, in 27 different MS

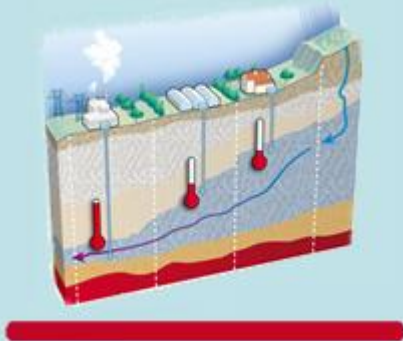
<http://s3platform.jrc.ec.europa.eu/s3p-energy>



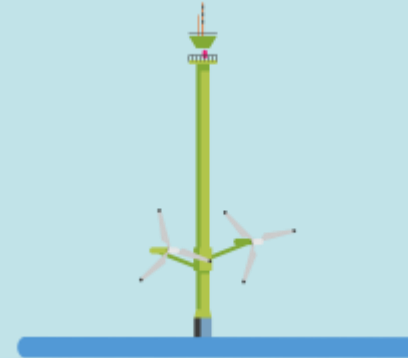
SP3Energy Partnerships



BIOENERGY



GEOHERMAL



MARINE RENEWABLE ENERGY



**SMART
GRIDS**



**SOLAR
ENERGY**



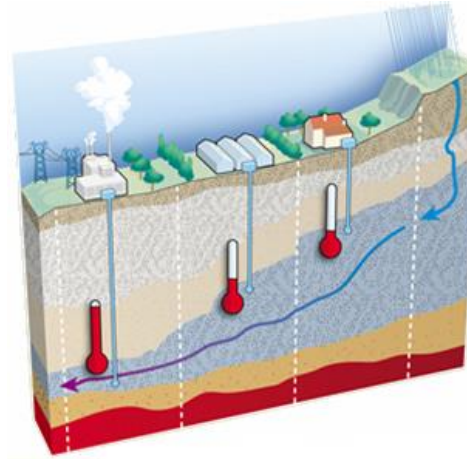
**SUSTAINABLE
BUILDINGS**

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



Leader

TUSCANY (IT)



13

REGIONS

ES: Asturias, Canary Islands;
FI: North East Finland (Pohjois-Pohjanmaa);
HU: Northern Hungary (Borsod-Abaúj-Zemplén County);
IT: Lombardy;
NL: Arnhem/Nijmegen, East Netherlands, Groningen,
South Holland;
PT: Azores;
UK: Scotland ;
TK: West Turkish provinces (Zafer)



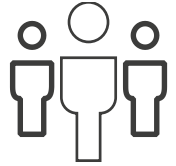
Partner regions of the **S3 Partnership Geothermal Energy 2.0** will share, test and jointly develop new solutions that can help overcoming existing gaps and concerns in the geothermal sector, by developing a new governance model respecting territories and supporting private businesses



European
Commission



Interregional partnership for Smart Specialisation on **BIOENERGY**



Leaders

Lapland (FI) and
Castile and Leon (ES)

30

REGIONS AND
MEMBER STATES



Reference topics



Biofuels

(bioethanol,
biogas)



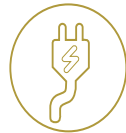
H&C

(biomass-based)



Knowledge transfer

on biomass feedstock,
installations and energy
consumption



Electricity

(forestry power
plants,
agriculture
power plants)

Castile and Leon
(ES)

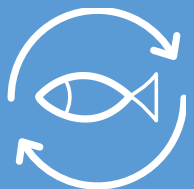
Lapland
(FI)



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.



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



Leaders

Scotland (UK) and
Basque Country (ES)

16
REGIONS

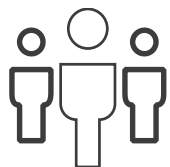
The Marine Renewable Energy (MRE) partnership builds on the work and experience of the Advanced Manufacturing for Energy Applications (ADMA Energy) pilot within the Vanguard Initiative (VI), which is active across the blue economy and subsea sectors. The partnership seeks to apply expertise gained in 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)

10 REGIONS AND
MEMBER STATES

Basque Country
(ES)

Provence-Alpes-
Côte
d'Azur (FR)



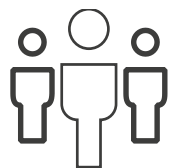
The aim of the partnership is to increase the competitiveness of the partner regions by collectively fostering new business opportunities in order to develop an overall approach to the value chain of smart grids.



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Commission



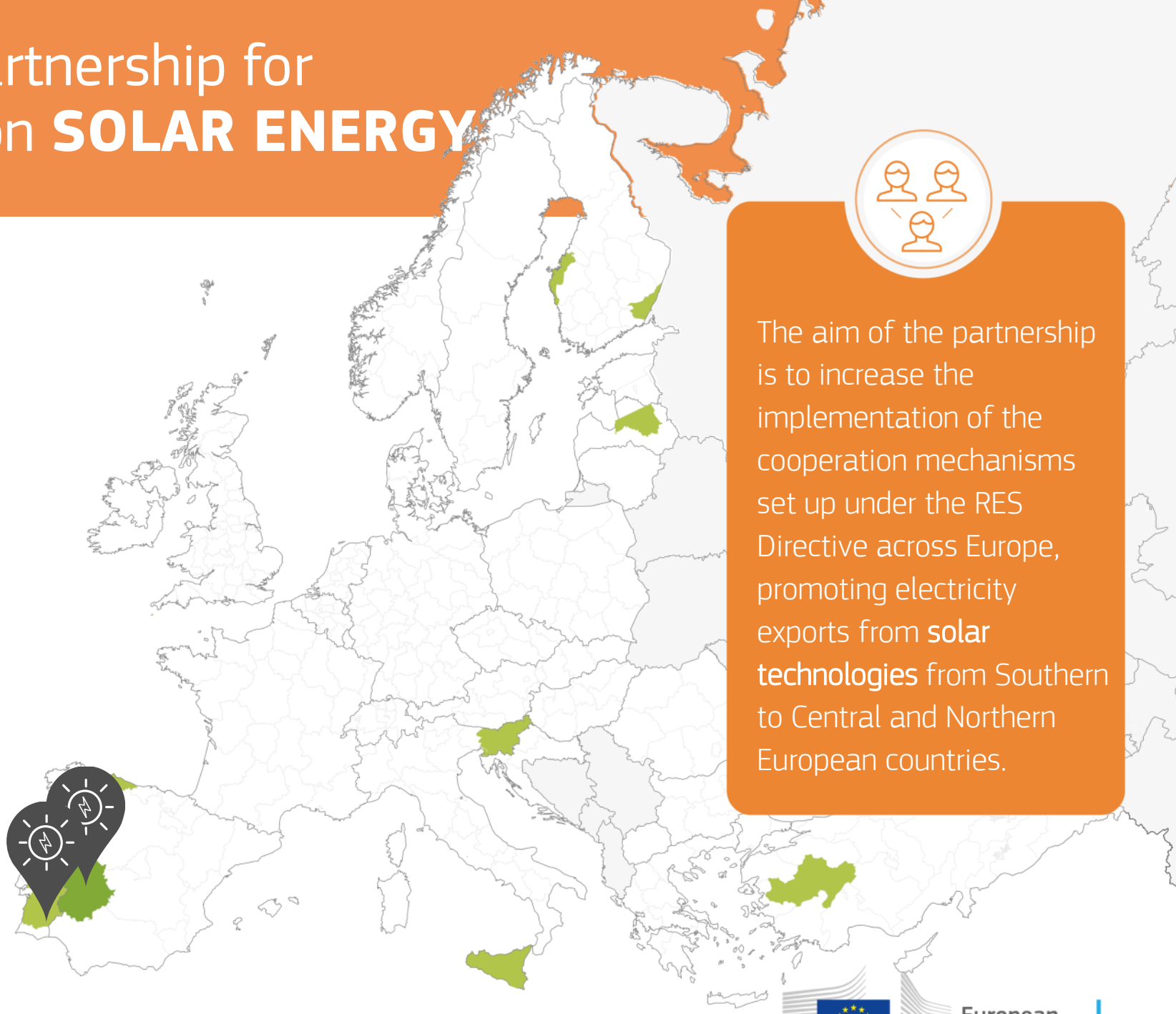
Interregional partnership for Smart Specialisation on **SOLAR ENERGY**



Leaders

Extremadura (ES)
and Alentejo (PT)

13 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.



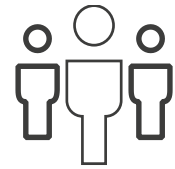
European
Commission



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.



Leaders

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

45

REGIONS AND
MEMBER STATES



Reference topics



Eco-construction, bioclimatism and insulation of buildings



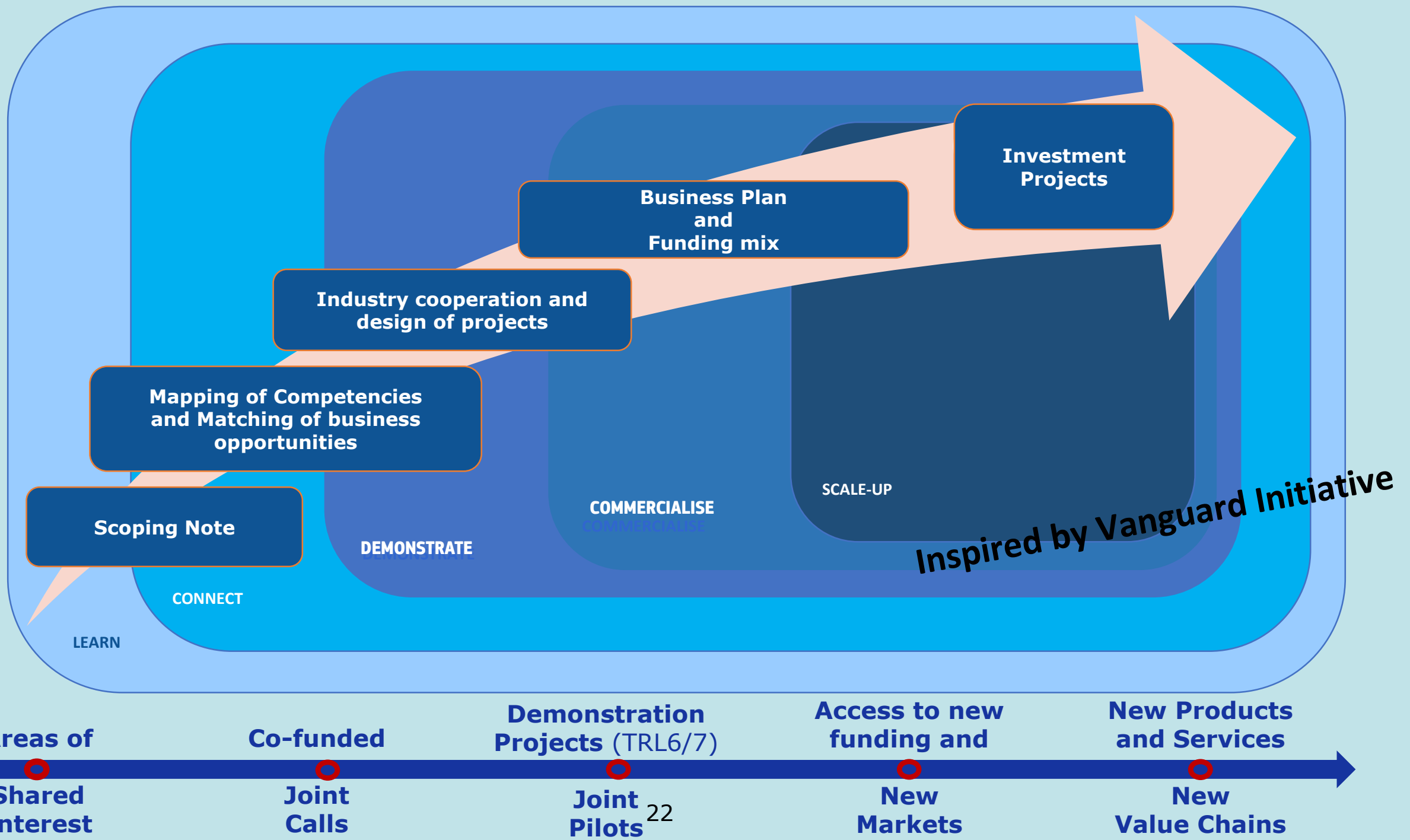
Renewable energy integration in buildings



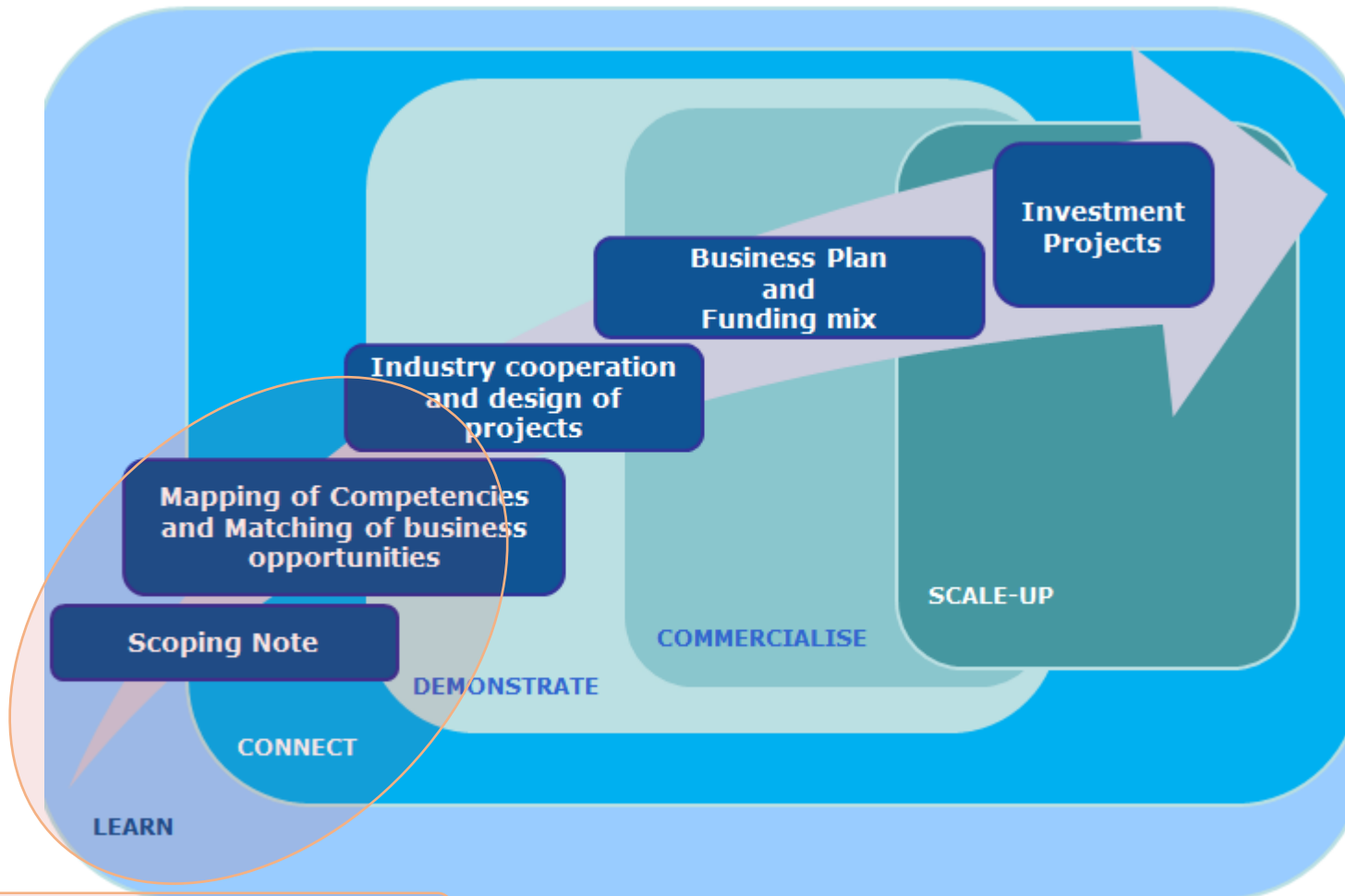
Systems of maximum **energy efficiency** in buildings and cities



S3 Thematic Partnerships - Methodology



S3 Interregional Innovation Project – Pilot Actions



JRC S3 Platform support

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

1. "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**

S3P support: Methodological Manual

- Prepared with the aim of assisting public authorities responsible for ***designing and delivering interregional investment projects*** in the S3 context and with ensuring that these joint projects attract private sector interest sufficient to ensure their sustainability.
- Focus on LEARN and CONNECT phases
- Forthcoming summer 2019



EU13 Participation in the S3PEnergy partnerships											
Participants	country	Number of Total Pships	Number of IM Pships	Number of AF Pships	Number of EN Pships	Bioenergy	Geothermal Energy	Marine Renewable Energy	Smart Grids	Solar Energy	Sustainable Buildings
North West Croatia, Croatia (four NUTS 3: HR041, HR042, HR04D, HR043)	Croatia	2	0	0	2	participating					lead
Cyprus	Cyprus	2	0	0	2				participating	interested	
Prague, Czech Republic	Czechia	1	0	0	1						participating (but no Letter)
South-Estonia, Estonia	Estonia	3	0	0	3	participating				participating	participating (but no Letter)
North Great Plain (Észak-Alföld), Hungary	Hungary	2	0	0	2	participating (but no Letter)					lead
Northern Hungary, (Borsod-Abaúj-Zemplén County), Hungary	Hungary	1	0	0	1		participating				
South Transdanubia, Hungary	Hungary	3	1	1	1						participating (but no Letter)
Kaunas County, Lithuania	Lithuania	1	0	0	1						participating
Lithuania	Lithuania	1	0	0	1						participating (but no Letter)
Opolskie, Poland	Poland	1	0	0	1						participating (but no Letter)
Podlaskie, Poland	Poland	2	0	0	2	participating (but no Letter)					participating (but no Letter)
Pomorskie, Poland	Poland	3	0	0	3	participating (but no Letter)			participating		participating
Slaskie, Poland	Poland	3	1	0	2	participating (but no Letter)					participating (but no Letter)
Centre, Romania	Romania	1	0	0	1	participating					
North East Romania, Romania	Romania	5	3	1	1	participating (but no Letter)					
Slovakia	Slovakia	1	0	0	1	participating (but no Letter)					
Central Slovenia, Slovenia	Slovenia	1	0	0	1						participating
Littoral, Slovenia	Slovenia	1	0	0	1						participating (but no Letter)
Drava (Podravska), Slovenia	Slovenia	1	0	0	1						participating
Upper Carniola (Gorenjska), Slovenia	Slovenia	1	0	0	1						participating (but no Letter)
Littoral-Inner Carniola, Slovenia	Slovenia	1	0	0	1						participating (but no Letter)
Slovenia	Slovenia	10	6	2	2				participating	participating	
Slovenia East, Slovenia	Slovenia	3	2	0	1	participating					



Thank you!



More information:

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

 @S3Platform #S3PEnergy

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