

# Joint Research Centre

the European Commission's in-house science service

*Serving society  
Stimulating innovation  
Supporting legislation*

## Innovation in Support to Policies: Setting the Stage - the Role of Thematic S3 Platforms in the Innovation Agenda in the EU and Beyond

Dr. Ales Gnamus

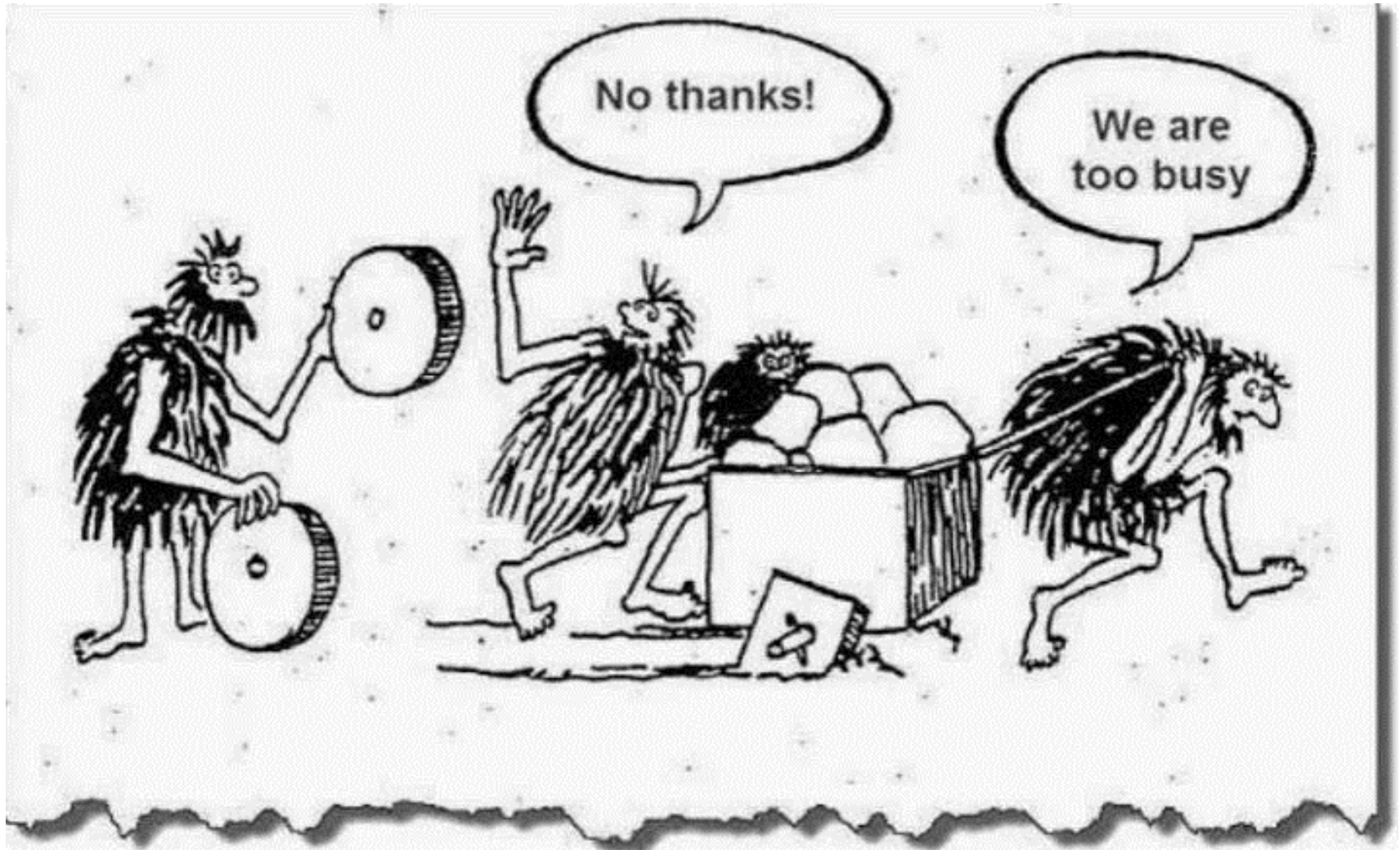


JRC Macro-Regional Week – Session "Innovation in Support to Policies – Agro-Food, Energy & Industrial Modernisation"  
Ispra, Italy, 25 January 2018

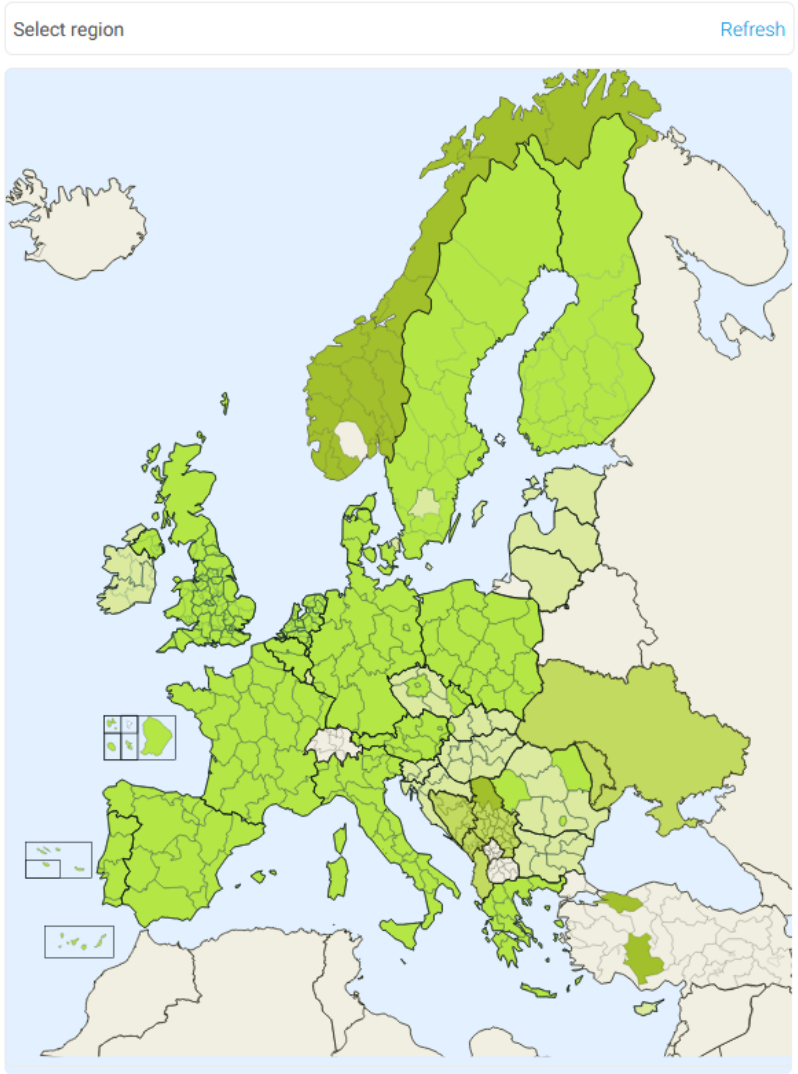
[www.ec.europa.eu/jrc](http://www.ec.europa.eu/jrc)

# Innovation in Support to Policies:

...fundamental precondition = favourable framework for innovations



# "EYE@RIS3" Tool mapping S3/R&I priorities



Match All of the following domains filters:

**Economic Domains**  
None selected

**Scientific Domains**  
None selected

**Policy Objectives**  
None selected

**Macro-region/Country**  
None selected

**Region**  
None selected

**Description of Priority**  
☒ Refined Search  
☐ Approximated Search

**Country/Region type**  
☒ EU Countries with Encoded S3 Priorities  
☒ EU Regions with Encoded S3 Priorities  
☒ Non-EU Countries with Encoded R&I Priorities  
☒ Non-EU Regions with Encoded R&I Priorities

Search

Add/Edit priorities

Export

In total >1400 of regional/national R&I priorities in Europe encoded!

EU Countries with Encoded S3 Priorities

EU Regions with Encoded S3 Priorities

Non-EU Countries with Encoded R&I Priorities

Non-EU Regions with Encoded R&I Priorities

[Guides on - "How to Search the Tool" and "Add/Modify the Priorities"](#)

...based on EYE@RIS3 database of S3 priorities

**ANALYSIS OF OVERLAPS IN EU LEVEL PRIORITY AREAS**  
(based on data encoded in the EYE@RIS3 database)

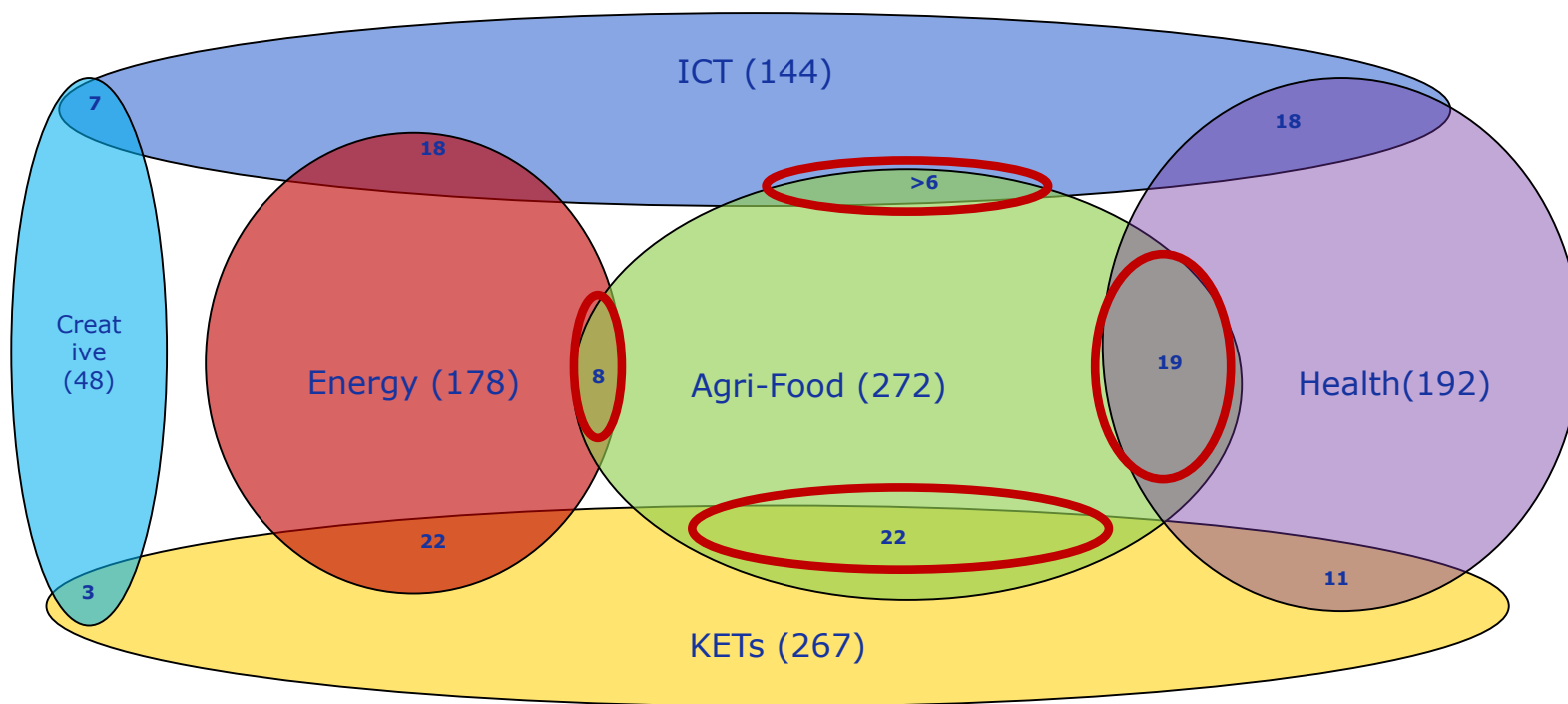
Categories		VI PRIORITIES		EU28 PRIORITIES	
		count, n	%	count, n	%
1	<b>AGRO-FOOD RELATED</b>	29	17%	272	22%
2	<b>KETs RELATED</b>	59	35%	267	21%
3	<b>HEALTH RELATED</b>	38	23%	192	15%
4	<b>ENERGY RELATED</b>	32	19%	178	14%
5	<b>DIGITAL AGENDA RELATED</b>	8	5%	144	11%
6	<b>ENVIRONMENT RELATED</b>	15	9%	59	5%
7	<b>CREATIVE/CULTURAL RELATED</b>	16	10%	48	4%
8	<b>TRANSPORT AND LOGISTICS RELATED</b>	13	8%	38	3%
9	<b>SOCIAL INNOVATION, ORGANISATIONAL MODELS, OTHERS</b>	5	3%	25	2%

**NOTE:**

This step focused on the **identification of potential overlaps in S3 related priorities** indicated by the regions as well as their importance at the EU28 level.

Most frequent S3 priorities:  
**Agri-Food, KETs, Health, Energy and Digital Growth!**

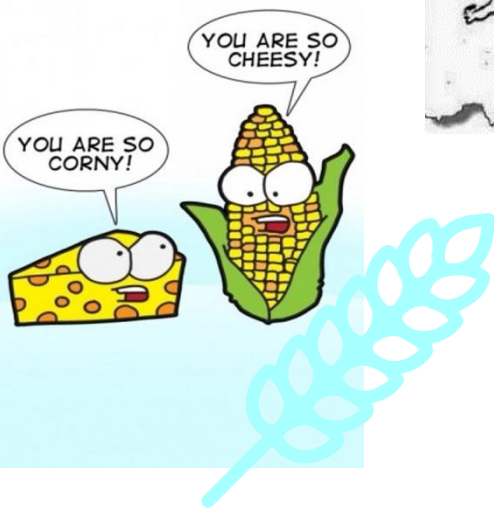
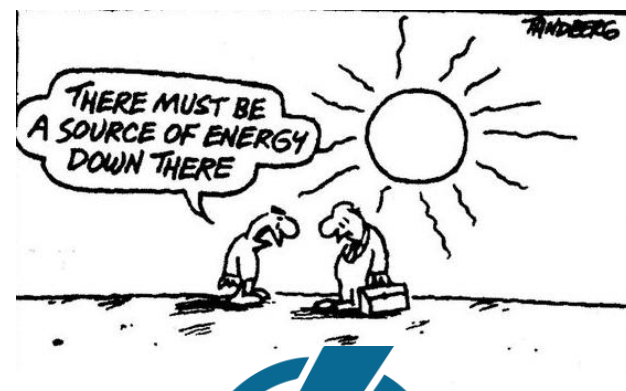
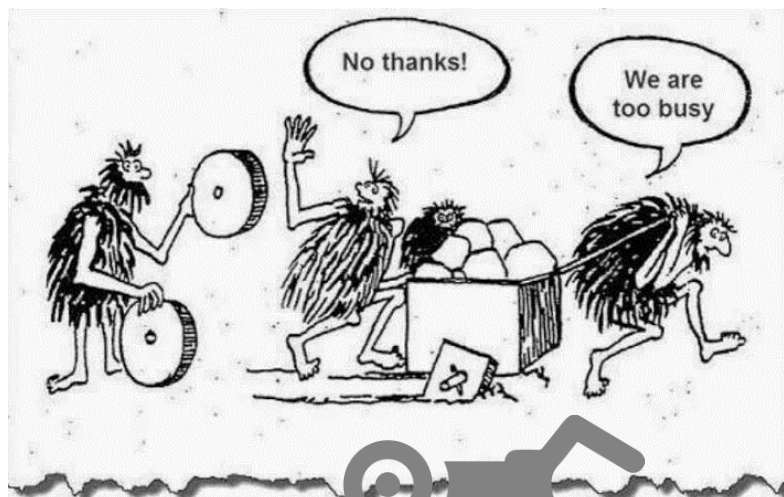
# Overlapping S3 priority niches



Source: EYE@RIS3



# Thematic S3 Platforms vs. Innovation to Policies



**Agri-Food**



**Industrial  
Modernisation**



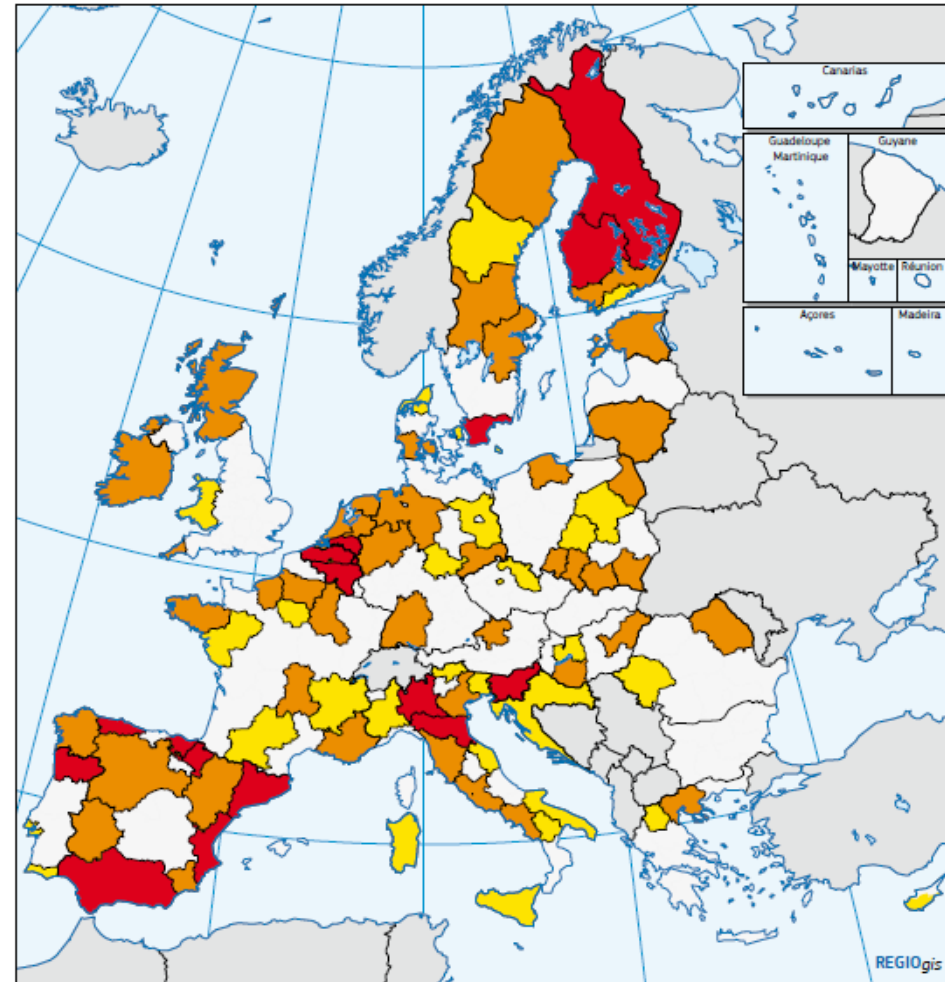
**Energy**

# Thematic S3 Platforms (TSSPs)

S3 as coordinating mechanism to align efforts...

- Strategic focus: "EDP" of opportunities for co-investment on the S3 priority areas;
- Objective: Support pilot activities towards aligned roadmaps and project pipe-lines leading to coordinated joint investments;
- Governance: joint initiative of pro-active motivated regions (like Vanguard Initiative) supported by thematic policy DGs;
- Composition: motivating potential cooperation partners along value chains!

Foster opportunities to team-up around value chains for Horizon2020, COSME, INTERREG Europe,...)



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

Number of participations

- 1
- 2 - 5
- >= 6

Number of partnerships: 18  
in Energy: 5  
in Industrial Modernisation: 9  
in Agri-Food: 4

Source: JRC, DG REGIO

0 500 Km

© EuroGeographics Association for the administrative boundaries

# TSSP Agri-Food



Status as of end-of-2017:

- **4** qualified partnerships
- **41** regional and national authorities participating
- **6** leading/co-leading regions
- Majority of participating regions: Italy (7), Spain(6), Netherlands (6), France (4)
- **2** of these selected for DG REGIO's Interregional Pilot Actions
- **DGs** involved: AGRI, REGIO, RTD, JRC
- **+ 2** new EoIs recently qualified



**High-Tech Farming**



**Traceability & Big Data**



**Bio-Economy**



**Smart Sensors Systems  
4 Agri-Food**



# TSSP Industrial Modernisation

Status as of end-of-2017:



11

QUALIFIED  
PARTNERSHIPS



Advanced  
manufacturing



Non-food Biomass



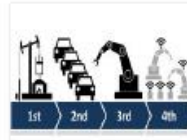
Efficient and  
Sustainable  
Manufacturing



3D-Printing



New Nano-Enabled  
Products



SMEs to the Industry  
4.0



Sport



Digitalisation and  
Safety for Tourism



Textile Innovation



Medical technology



Photonics

GOVERNED

by

20

LEADING REGIONS &  
MEMBER STATES

representing

65

participating regions  
and member states

4

DIRECTORATES ON  
BOARD

Growth,  
Regional policy,  
Research and Innovation and  
Joint research centre  
and the Committee of Regions





# TSSP Industrial Modernisation

Examples of leading regions/countries per some topics

## Advanced Manufacturing for Energy Applications in Harsh Environments - Energy

Basque Country (ES) & Scotland (UK)

## Medical Technology

Auvergne-Rhône-Alpes (FR) & North-Rhein-Westfalia (DE)

## Production Performance Monitoring and SME integration to Industry 4.0



## High Performance Production through 3D Printing

Flanders (BE), South Netherlands (NL) & Norte (PT)

## Bio-Economy

Lombardy (IT) & Randstad region (NL)

<http://s3platform.jrc.ec.europa.eu/industrial-modernisation>

Status as of end-of-2017: 5 qualified partnerships + NEW: H&C

**Bioenergy**

**Sustainable Buildings**



**Marine Renewable Energy**





**Solar Energy**

**Smart-Grids**









# Pilot Action on Partnerships to Pilot Interregional Innovation Projects - 8 selected partnerships

THEMATIC AREA	COORDINATED BY	LEAD REGIONS	PARTICIPATING REGIONS
 <p>3Dprinting</p>	Thematic Smart Specialisation Platform for Industrial modernisation	Flanders (BE), Noord-Brabant (NL), Norte (PT)	Emilia-Romagna (IT), Wallonia (BE), Lombardy (IT), Aragon (ES), Saxony (DE)
 <p>Bio-economy</p>	Thematic Smart Specialisation Platform for Industrial modernisation	Flanders (BE)	Wallonia (BE), Lower-Austria (AT), North Rhine-Westphalia (DE), Emilia-Romagna (IT), Navarra (ES), Noord-Brabant (NL), Helsinki-Uusimaa (FI), Łódzkie (PL)
 <p>Cybersecurity</p>	New thematic area	Brittany (FR)	Estonia, North Rhine Westphalia (DE), Central Finland (FI), Castilla y Leon (ES)
 <p>De- &amp; re-manufacturing for circular economy</p>	Thematic Smart Specialisation Platform for Industrial modernisation	Lombardy (IT)	Tampere (FI), Norte (PT), Scotland (UK), Saxony (DE), Basque Country (ES), Flanders (BE), Emilia Romagna (IT)





## Pilot Action - 8 selected partnerships – Cont.

THEMATIC AREA	COORDINATED BY	LEAD REGIONS	PARTICIPATING REGIONS
 <p>High-tech farming</p>	Thematic Smart Specialisation Platform for Agri-food	Tuscany (IT)	Estonia, Flanders (BE), Weser-Ems (DE), Central Macedonia (EL), West Macedonia (EL), Galicia (ES), Extremadura (ES), South Ostrobothnia (FI), Pays De la Loire (FR), Marche (IT), Veneto (IT), Emilia-Romagna (IT), North East Romania (RO), East Central Sweden (SE), Northern Netherlands (NL), Gelderland (NL), Noord Holland (NL), Zuid Holland (NL), North-Brabant (NL), Limburg (BE), Northern Ireland (UK), Centro (PT)
 <p>Marine renewable energy</p>	Thematic Smart Specialisation Platform for Energy	Basque Country (ES) & Scotland (UK)	Asturias (ES), Andalucia (ES), Navarra (ES), Norte (PT), Flanders (BE), Emilia Romagna (IT), Lombardy (IT), South Denmark (DK), Skåne (SE), Dalarna (SE), Ostrobothnia (FI), Brittany (FR), Cornwall (UK), Sogn og Fjordane (N)
 <p>Sustainable buildings</p>	Thematic Smart Specialisation Platform for Energy	Andalucía (ES)	Friuli Venezia Giulia Region (IT), Central Slovenia (SI), South Karelia (FI), Provence-Alpes-Côte-d'Azur (FR), Algarve (PT)
 <p>Traceability and big data in agri-food</p>	Thematic Smart Specialisation Platform for Agri-food	Andalucía (ES), Emilia-Romagna (IT)	Pays de la Loire (FR), Friuli Venezia Giulia (IT), Aragon (ES), Extremadura (ES), Pazardzhik (BG), South Ostrobothnia Region (FI), South Savo (FI)



# S3 Strategic Developments - EU

REGIO, JRC & Lead policy DGs

Regional authorities

Thematic Smart Specialisation Platforms

Energy

Agri-Food

Industrial Modernisation

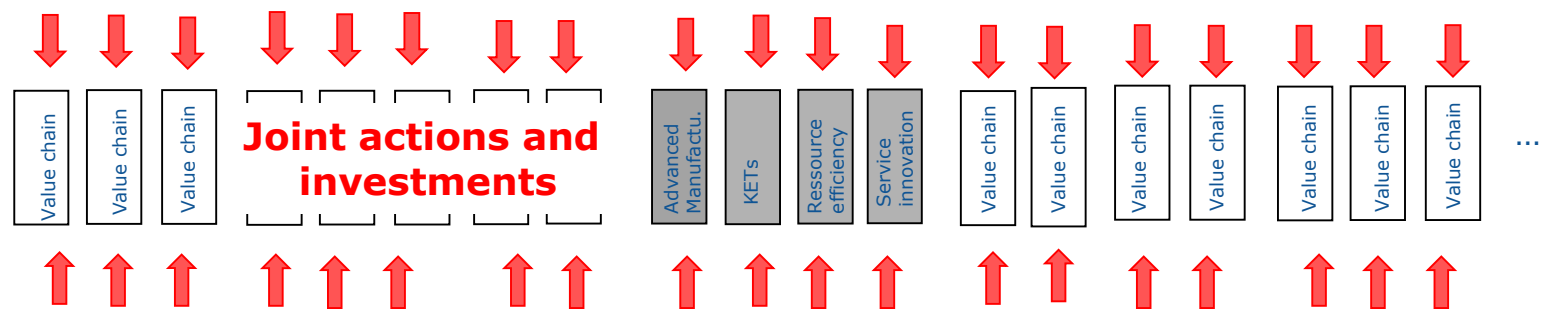
+Blue Growth

+ Digital Growth

+Health

+ Circular Economy etc.

Business



Cluster organisations

European Strategic Cluster Partnerships for Smart Specialisation Investments

**SMART SPECIALISATION PLATFORM**

European Commission / Smart Specialisation Platform / Home

Home S3 Platform S3 Guidance S3 Sections S3 Tools News Events Knowledge Repository

**Invitation for Smart Interregional Cooperation in Energy**

The S3P Energy platform launches an open invitation to EU regions to cooperate on S3 priorities in the fields of Bioenergy, Sustainable Construction, Smart Grids and Marine Offshore

**What we can do for you**

The Smart Specialisation Platform provides professional advice to EU countries and regions for the design and implementation of their research and innovation strategies for smart specialisation (RIS3). Our services include:

- Provide guidance material and good practice examples
- Conduct high quality research projects to inform strategy formation and policy-making
- Facilitate peer-reviews and mutual learning
- Support access to relevant data
- Train policy-makers
- Organise information sessions for policy-makers and present at conferences

**S3 Themes** **S3 Governance** **S3 Targeted Support**

**S3 Actors** **S3 Cooperation** **S3 Communities**

**S3 Tools**

The Platform provides interactive tools that can help you in identifying key features of regions and their Smart Specialisation Strategies, such as the CYC@RIS3 - an online tool showing the RIS3 priorities of regions/countries, the S3P Viewer - a tool to search planned investments in European Structural and Investment Funds (ESIF) data (ERDF, CF, ESF and YEI), the ICT Monitoring Tool to search European Structural and Investment Funds (ESIF) data (ERDF, CF, ESF, YEI and EAFRD) on planned investments in the ICT, the Regional Benchmarking tool showing structural similarities of the EU regions and the tool presenting Interregional Trade flows, as well as other Data Sources to benchmark the EU regions and Member States.

**S3 Tag Cloud**

agri-food digital agenda and icl flash news funds global value chains innovation innovation strategies for smart specialisation (ris3) inter-regional collaboration north s2c s3 Baltic s3 danube s3 energy s3 kora s3 smcs s3 value chains smart specialisation synergies transnational collaboration value chains

**S3P Calendar**

September 2016

M	T	W	T	F	S	S
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	2

**Event Highlights**

JIRC Information Events in Kiev (UA)

14 Sep 2016 - 15 Sep 2016

Cyprus S2E Workshop

22 Sep 2016

Macro-Regional Innovation Week: At the crossroads of three European Macro-Regions: Danube, Adriatic-Ionian and Alpine

26 Sep 2016 - 30 Sep 2016

1st SMARTER Conference on Smart Specialisation and Territorial Development

28 Sep 2016 - 30 Sep 2016

Smart Specialisation in Energy and Innovation in European Regions

13 Oct 2016 - 14 Oct 2016

Kick-off Event of the Smart Specialisation Platform on Industrial Modernisation

16 Nov 2016 - 17 Nov 2016

**Reports & Publications**

S3 Hub / S3 in Media

RIO - Research & Innovation Observatory

**S3 Platform** @S3Platform

Open invitation to EU regions to cooperate in common S3 energy priorities

s3platform.jrc.ec.europa.eu/open-invitation... #S3Penergy pic.twitter.com/3f158FvCdP

36 days

**S3 Platform** @S3Platform

Report "Opportunity Now: Europe's Mission to Innovate" now available! cc.europa.eu/opcor/publicat... #SmartSpecialisation pic.twitter.com/Wqag7dcbaa

65 days

More tweets

# Joint Research Centre Commission's in-house science service

*Serving society  
Stimulating innovation  
Supporting legislation*

## Thank you for your attention!



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

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