



# A Bioeconomy for Europe

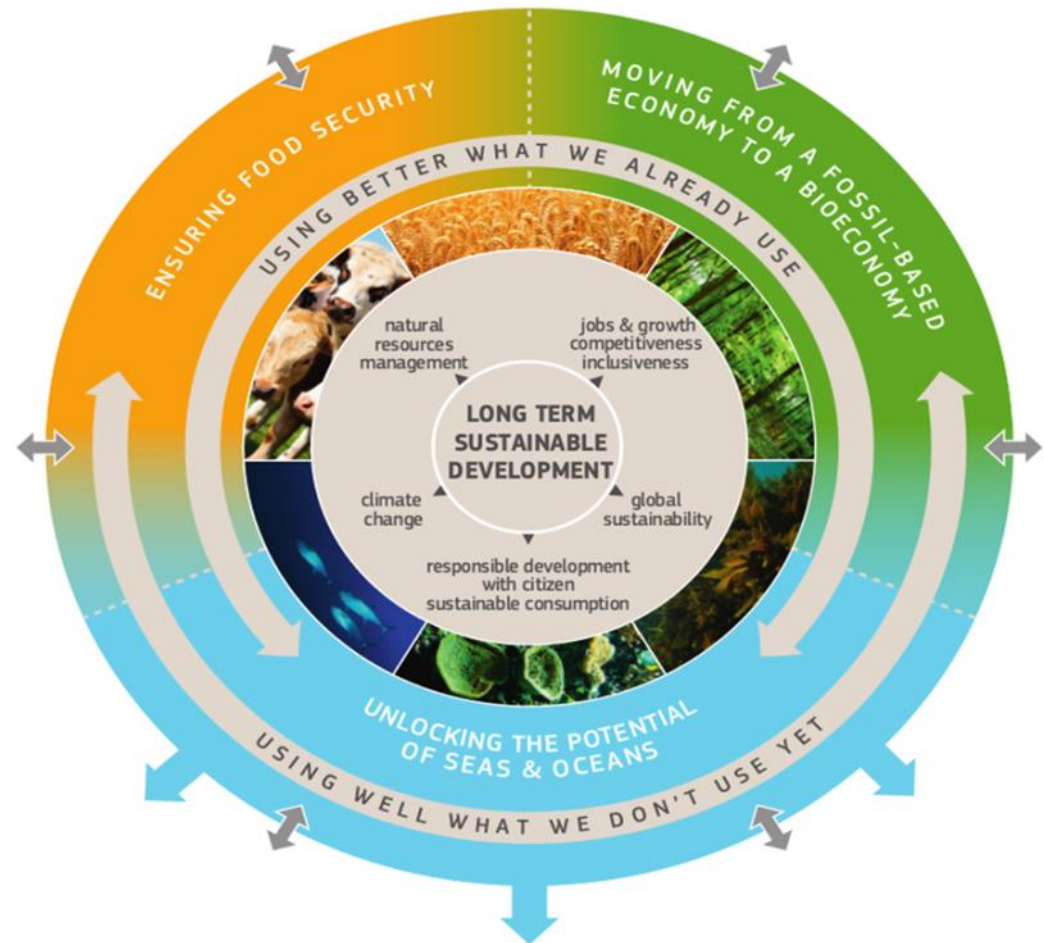
Using resources from land and sea  
for a post-petroleum economy

**Gilles Laroche and Christina Nanou**  
**Bioeconomy Strategy Unit – DG RTD**  
**Valencia, 22/9/2016**

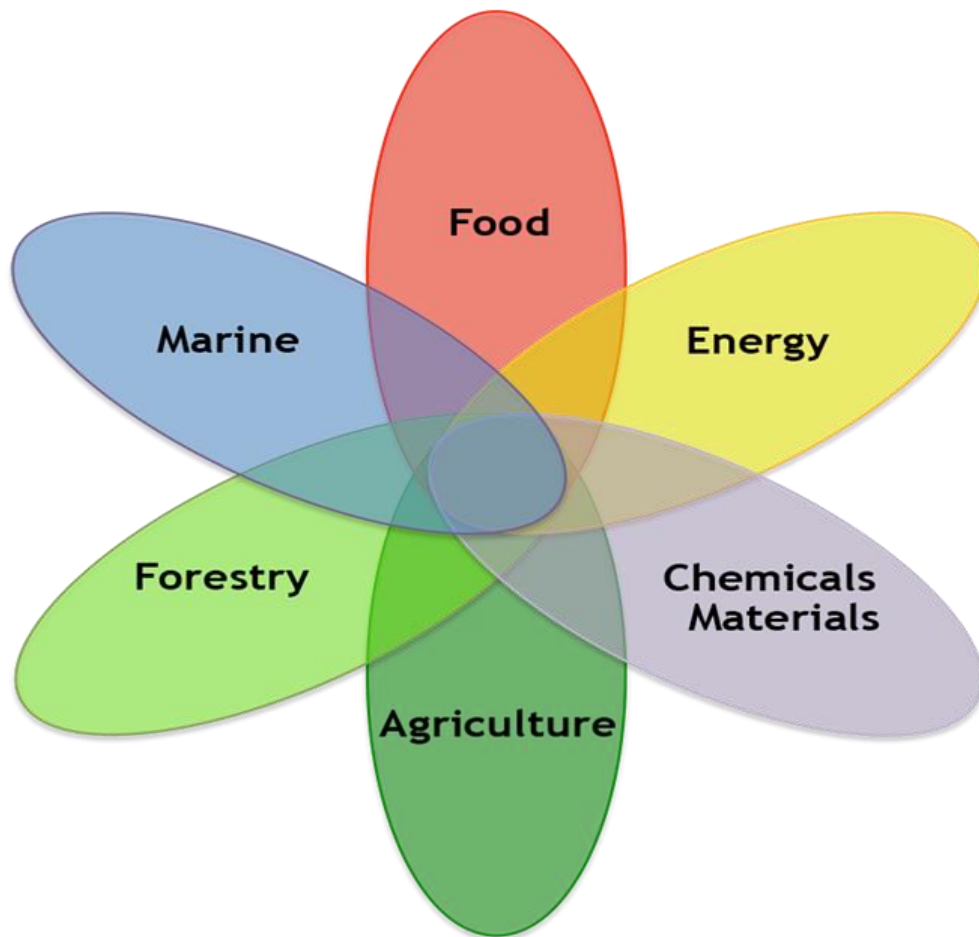
# **1. WHAT IS BIOECONOMY**

" The Bioeconomy encompasses those parts of the economy that use **renewable biological resources** from land and sea to produce food, bio-materials, bio-energy and bio-products."

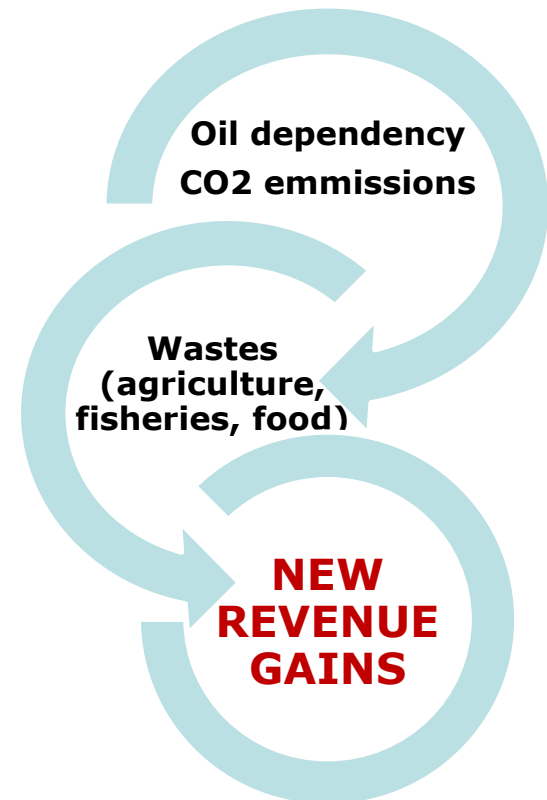
*EU bioeconomy strategy, 2012*



# Bioeconomy -



Using biological  
resources to  
produce  
**"more and better,  
from less"**





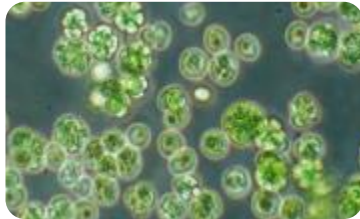
## Life sciences enable the creation of new **bio-based** value chains

### Primary production

### Waste



Sugar beets



Algae



Wood residues



Biological waste



Fish waste

INTO



Cosmetics



Plastic bottles  
Natural colourants  
for candy



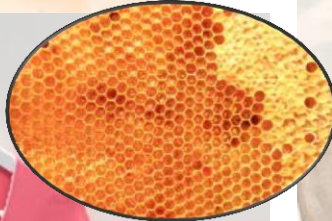
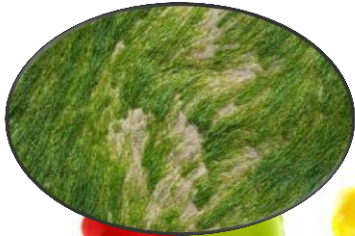
Dashboards



Bio-based plastics

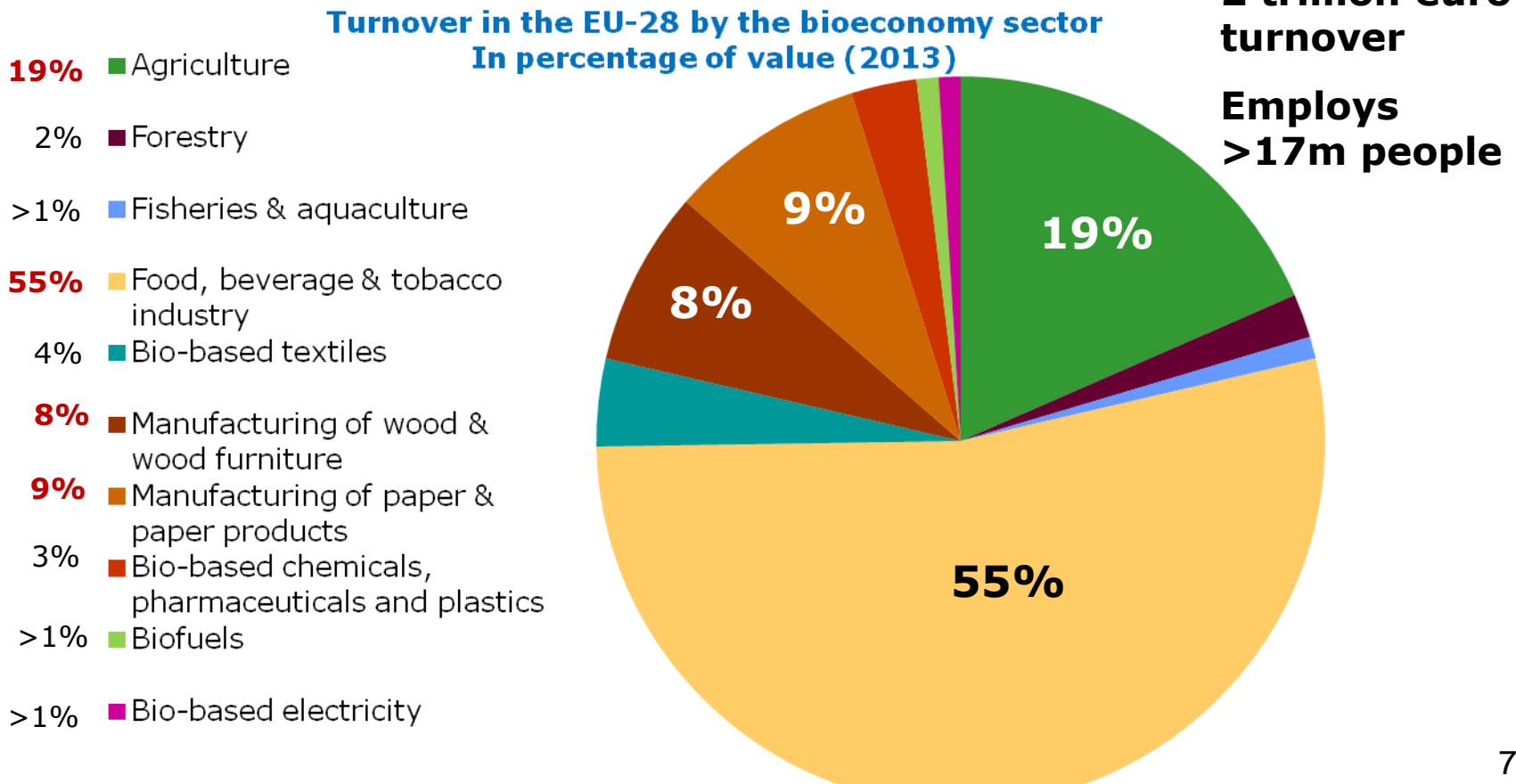


Pharmaceuticals





Bioeconomy is key for Europe



## 2. EU CONTEXT



## 2. EU context



### **1. A new boost for jobs, growth and investment**

2. A connected digital single market

### **3. A resilient Energy Union with a forward looking climate change policy**

### **4. A deeper and fairer internal market with a strengthened industrial base**

5. A deeper and fairer EMU

6. A reasonable and balance free-trade agreement with the U.S.

7. An area of justice and fundamental rights based on mutual trust

8. Towards a new policy of migration

9. A stronger global actor

10. A Union of democratic change



PRINCIPLE

1

Preserve and enhance natural capital by controlling finite stocks and balancing renewable resource flows  
ReSOLVE levers: regenerate, virtualise, exchange

# Bioeconomy

PRINCIPLE

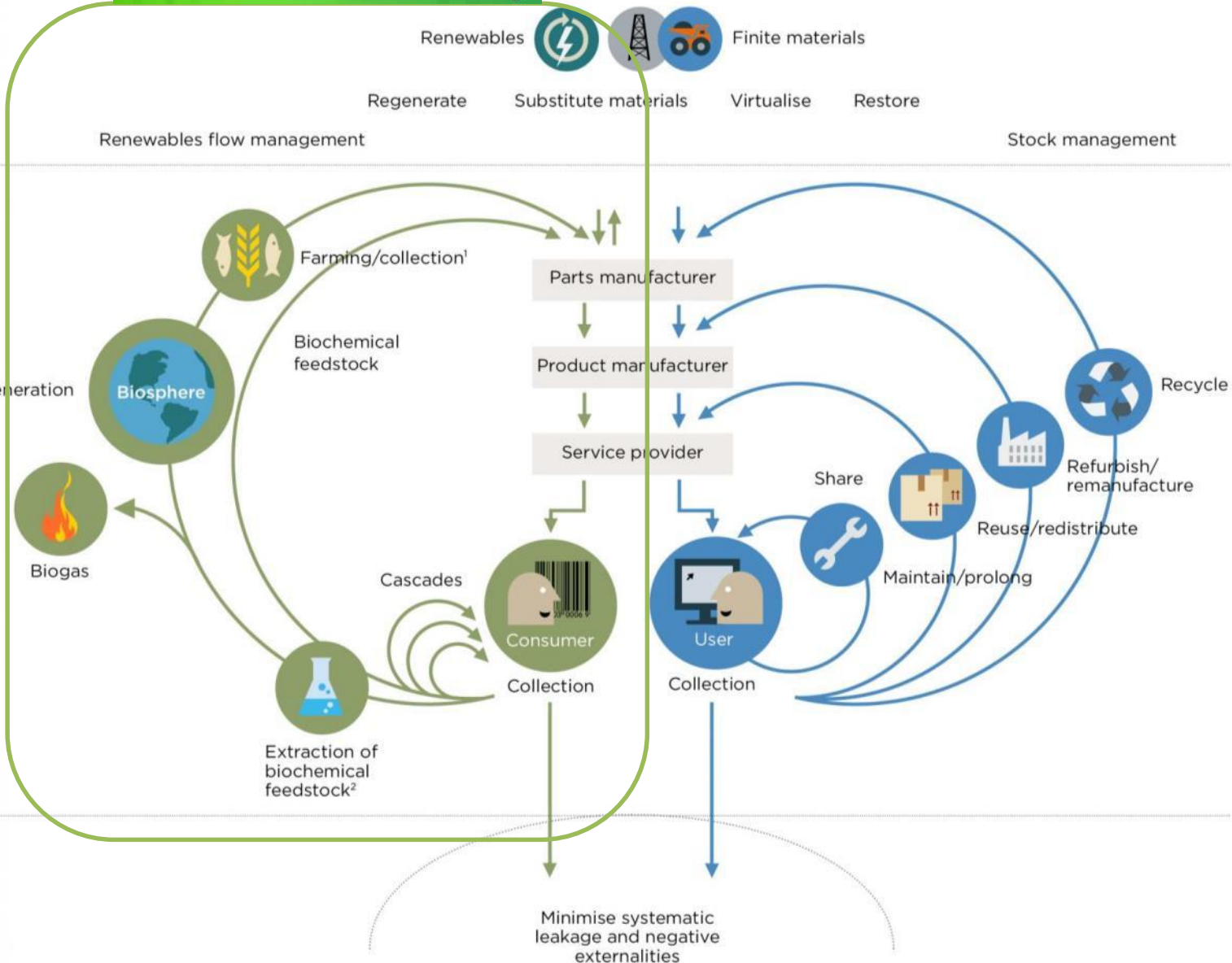
2

Optimise resource yields by circulating products, components and materials in use at the highest utility at all times in both technical and biological cycles  
ReSOLVE levers: regenerate, share, optimise, loop

PRINCIPLE

3

Foster system effectiveness by revealing and designing out negative externalities  
All ReSOLVE levers



1. Hunting and fishing  
2. Can take both post-harvest and post-consumer waste as an input  
Source: Ellen MacArthur Foundation, SUN, and McKinsey Center for Business and Environment; Drawing from Braungart & McDonough, Cradle to Cradle (C2C).

# **3. EU BIOECONOMY POLICY**



## EU Bioeconomy Strategy introduced in 2012



# EU Bioeconomy Action Plan

## Investment in R&I



## Policy interaction & stakeholder engagement



## Enhancement of markets and competitiveness in bioeconomy



- Horizon 2020
  - 3.8 bn €
- Increase multi-disciplinary & cross-sectoral R&I
- Smart Specialisation
- EFSI

- Bioeconomy Panel
- Bioeconomy observatory
- EU Policy coherence
- Development of regional and national bioeconomy strategies
- International cooperation

- Sustainable intensification of primary production
- Expansion of new markets
- Increase EU competitiveness
- BBI JU
  - 3.5 bn €



# Bioeconomy Policies around the World

Source: German Bioeconomy Council,  
Maisei/fotolia.com (flags), jktu\_21/fotolia.com

- dedicated bioeconomy strategy
- bioeconomy-related strategy
- be-related strategy; dedicated be-strategy is under development
- dedicated be-strategy is under development



## IN EUROPE:

Several MS have adopted **national Bioeconomy Strategies**.

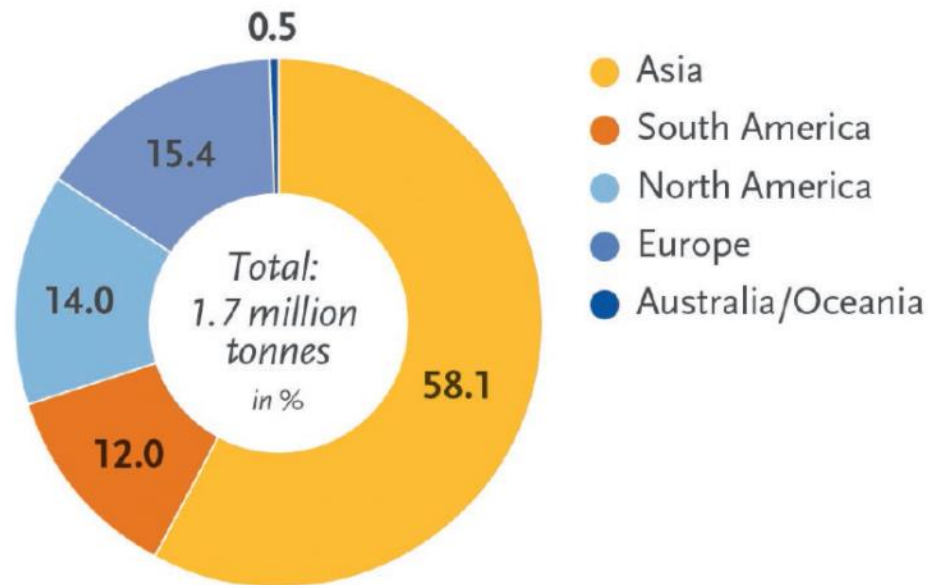


**More than 10 Regions  
are investing in  
Research on  
Bioeconomy (ESIF)**

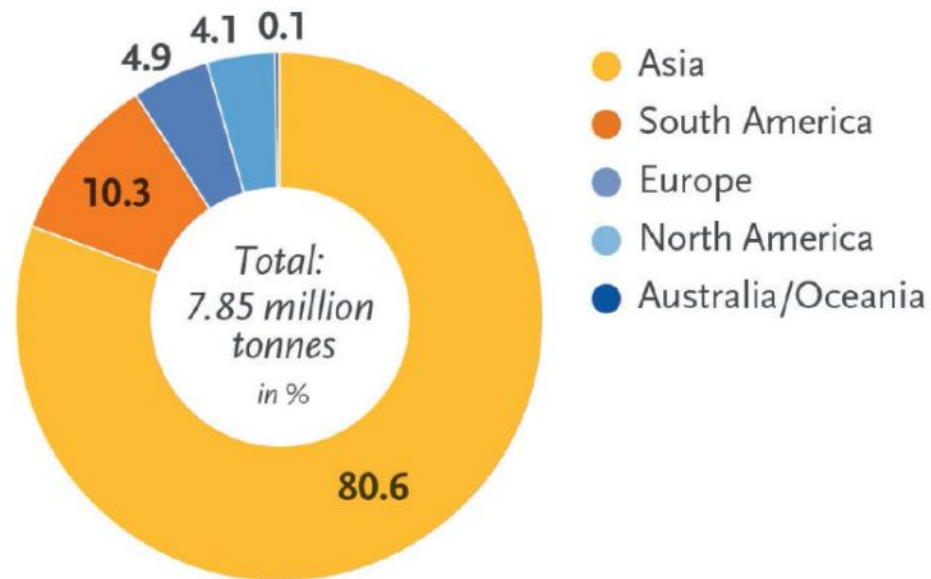
**Finland and Poland**  
the most involved countries  
(Source: eye@RIS3)



## Global production capacities of bioplastics in 2014 (by region)



## Global production capacities of bioplastics in 2019 (by region)

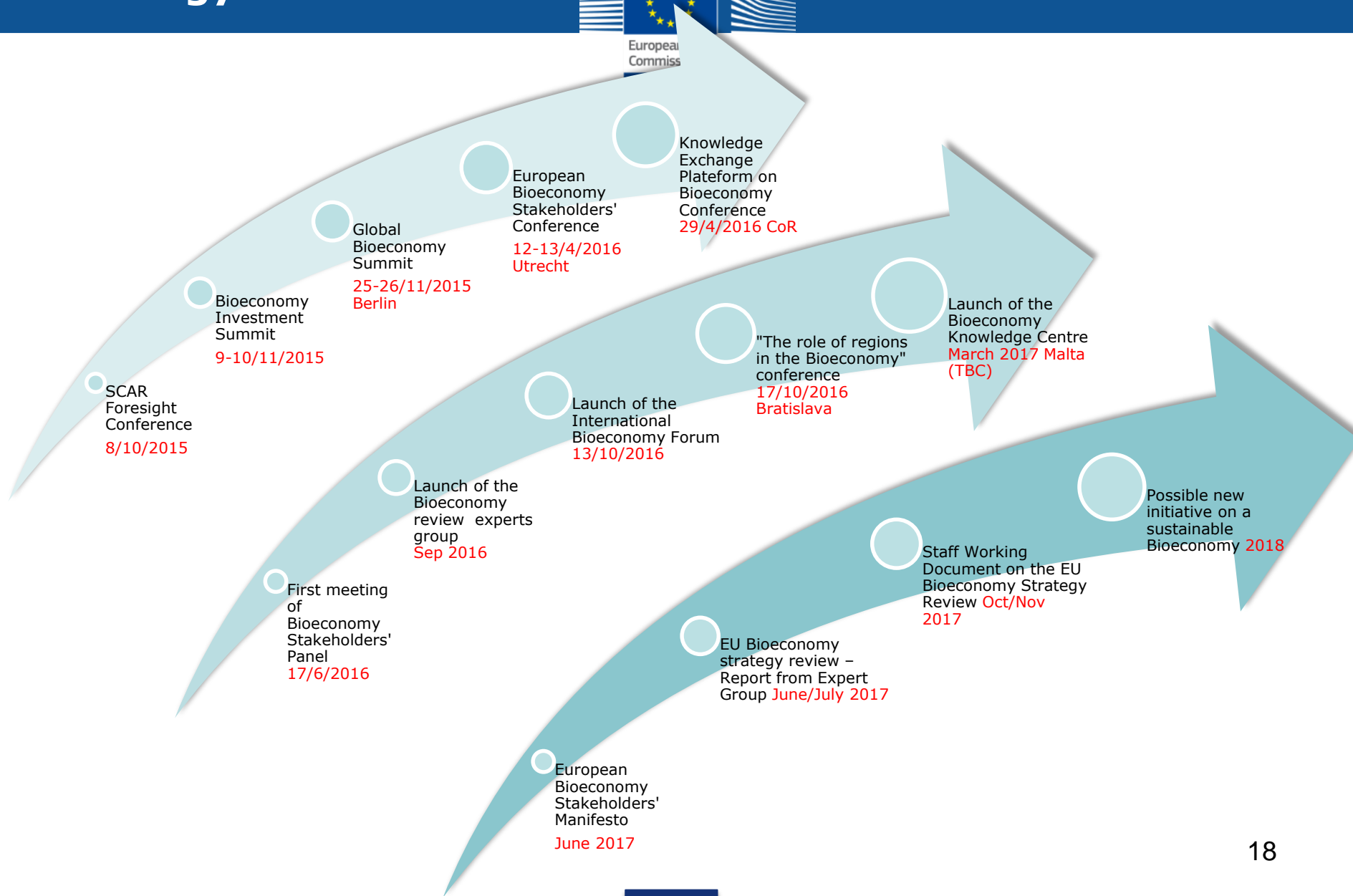


**Europe needs to **act** to remain competitive  
for industrial production and attract  
**investment** in the bioeconomy**

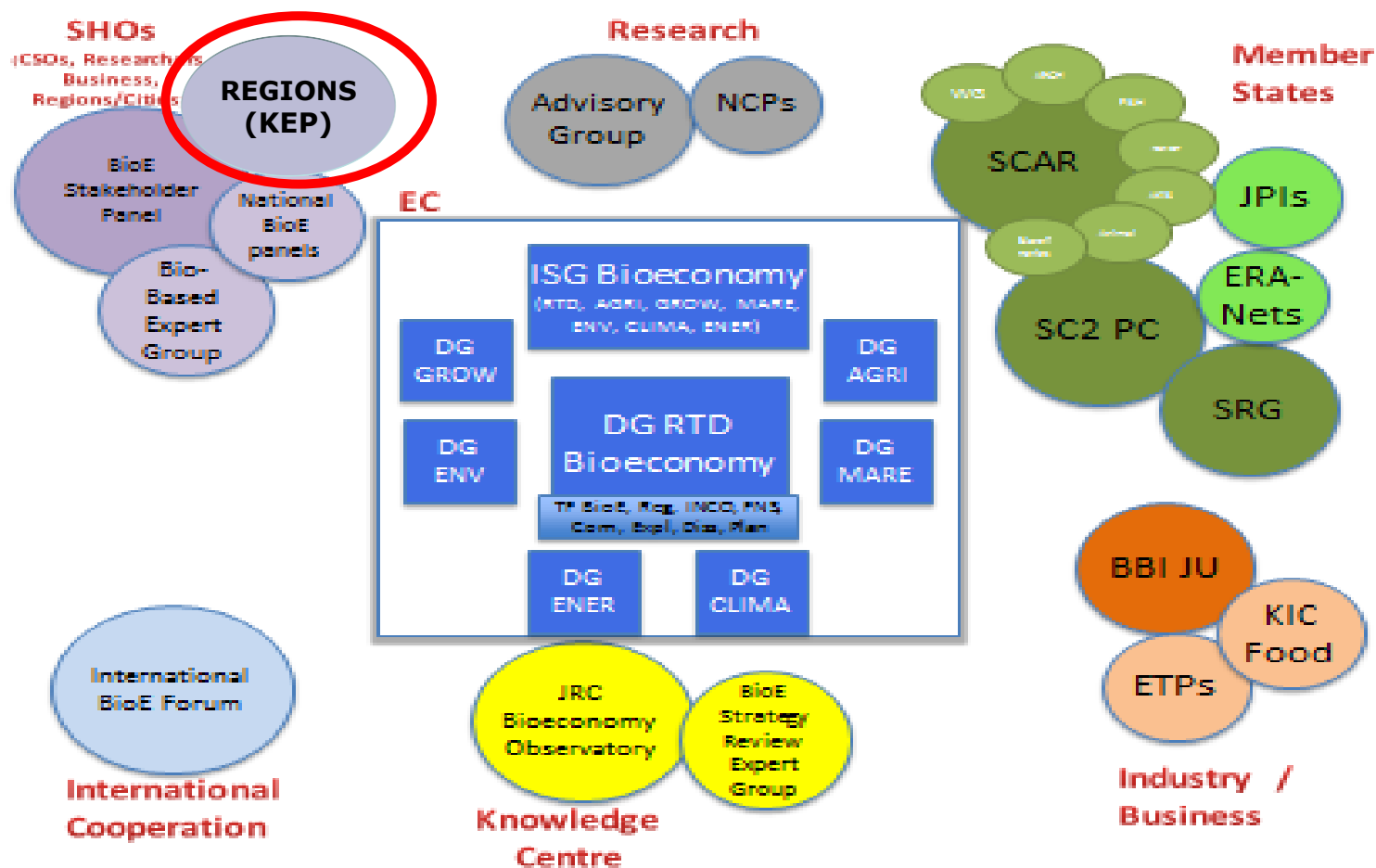


# **4. EU BIOECONOMY STRATEGY REVIEW**

# The EU Bioeconomy Strategy Review



# We count on EU regions for the review of the Bioeconomy Strategy



## EUROPEAN BIOECONOMY STAKEHOLDERS MANIFESTO

BIOECONOMY UTRECHT 2016



### CHALLENGES & OPPORTUNITIES FOR EU REGIONS: (POINT 8)

- Need to revitalise **rural and coastal areas**.
- **Bioeconomy** for high-value production in the regions,
- New opportunities & jobs for farming, forestry and aquaculture.
- The **marine environment potential** as part of the circular bioeconomy.

### GUIDING PRINCIPLES: (POINTS 16 & 17)

- Europe's **cities & regions** should play a key role for the BioE.
- We should fully **utilise the available biomass** and **better valorise the use of agricultural land...**
- **Marine production and aquaculture** offer new possibilities.

### ACTIONS: (POINT 22)

- **Mutual learning** within & between regions, **peer-to-peer exchanges** at the EU
- **Link** between **regional bioeconomy strategies** and **smart specialisation**
- Creation of **new value chains, stairways of excellence, jobs and growth**
- **Redesign current agricultural-, energy and waste policies**



# **5. EU REGIONS ARE KEY PLAYERS FOR THE BIOECONOMY**

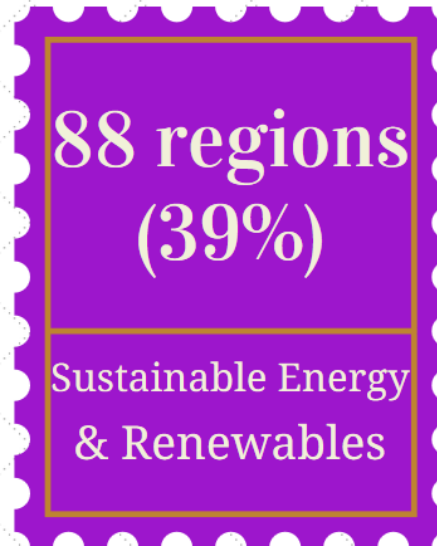
*REGIONAL ASPECTS & BIOECONOMY  
H2020-ESIF SYNERGIES / SEAL OF EXCELLENCE*

# What areas are EU regions going to invest in? (*RIS3*)



**Food Security & Safety**  
**34 regions (15%)**

**Sustainable Agriculture**  
24 regions (11%)

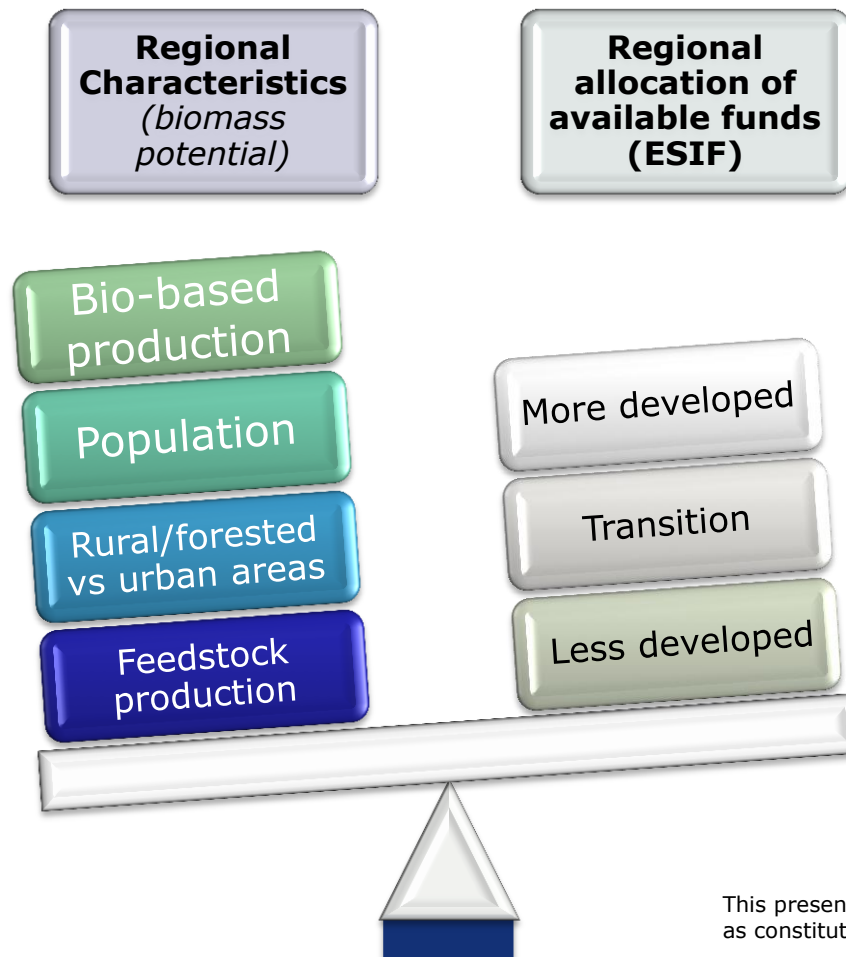


Aquaculture: 7 regions (3%)

Blue Renewable Energy: 9 regions (4%)

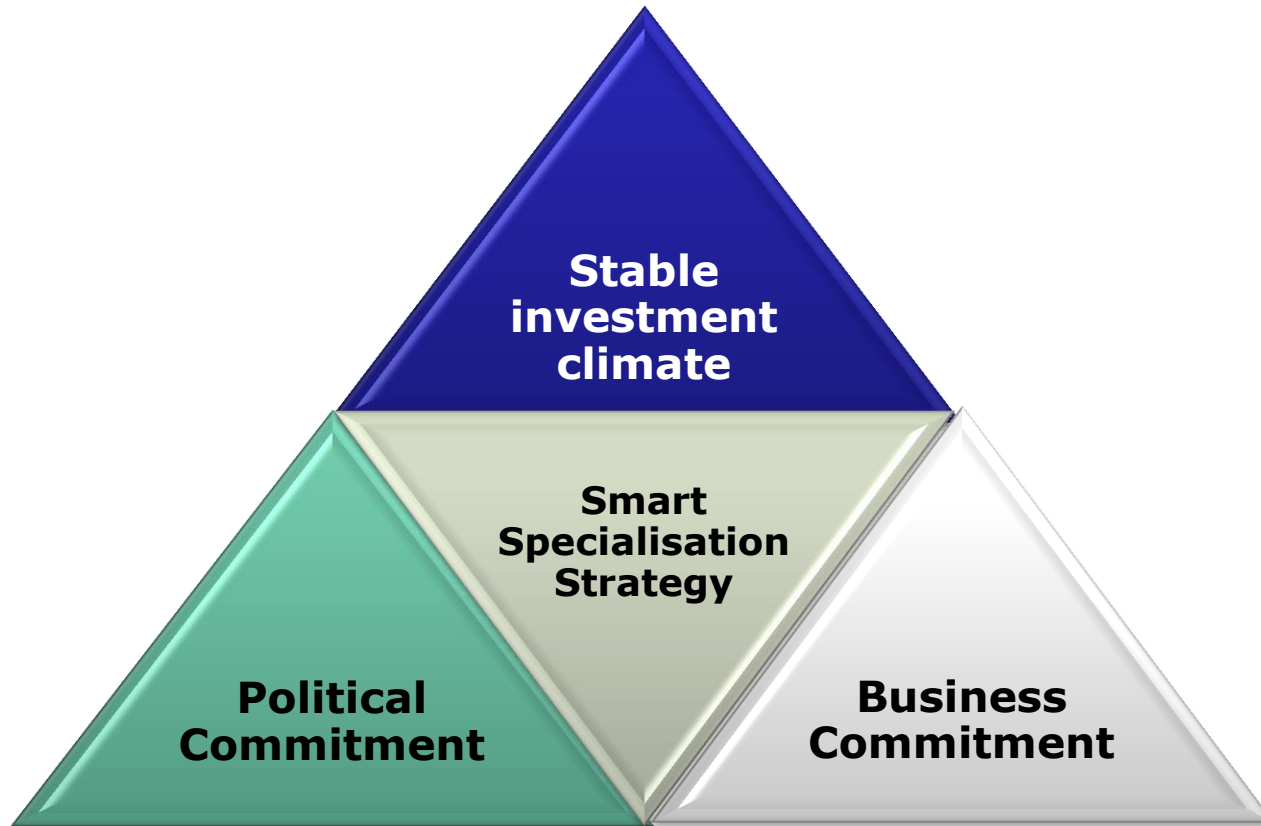
Marine Biotechnology: 2 regions (1%)

# EU Regions' diversity is their advantage!



# Regional Bioeconomy Strategy Development

## 4 fundamental ingredients





## **SUGGESTED ACTIONS ON THE GROUND FOR EU REGIONS:**

→ Provide market **Supply** by **exploiting local biomass**



→ Create market **Demand** by investing in **new value chains** (ESIF)

**EU & regions needs to act fast  
to remain competitive & attract investments**

## REGIONAL ACTIONS & BIOECONOMY - EXAMPLES - ESIF

### URBAN – RURAL INTER-LINKAGES:

Investment in local economic activities to support production of **regional quality agri-products & foodstuff** (PDO, PGI)

**WASTE:** *Reduction of food waste* (biodegradable), waste treatment, reuse and Recycling channels. – CIRCULAR ECONOMY

### REDUCE ENVIRONMENTAL IMPACT

(agric./forestry) e.g. new technologies for utilization of water resources

**LOW-C:** new low-C technologies and logistical solutions **in rural context for conversion of biomass** & sustainable use of biofuels

### BIOENERGY:

*Developing biorefineries networks*

- Scale-up of biorefineries (pilot/demo)
- Networks of small and large biorefineries
- New supply chains & **logistics for feedstock** (including residues and waste)
- Bio-based industries with dedicated PPPs

### INNOVATION FOR AGRO-FOOD INDUSTRY:

*Food packaging innovative solutions*  
*Converting food waste into bio-based plastics*  
*Improving resource efficiency & sustainability*

**BIO-BASED PRODUCTS MARKETING - COMMERCIALISATION - Public procurement**

### AWARENESS RAISING:

*use of new bio-materials & products in everyday life*

### SMEs BIOECONOMY Helpdesk:

*structures / business support services*  
*clusters*  
*access to information on BE investments and new technologies (e.g. IPR, labelling, standardisation)*



# **BIOECONOMY TOOLS, INITIATIVES**

## **PRIORITIES**

## **TOOLS/INITIATIVES**

### **1. NATIONAL BIOECONOMY STRATEGIES**

- 1. Bio-based Industries Joint Undertaking (BBI JU)**
- 2. Horizon 2020 / Societal Challenge 2**
- 3. FOOD 2030** *13/10 conference (policy tool)*
- 4. Bioeconomy Knowledge Centre**
- 5. Bioeconomy Cities** *– 6/10 workshop*

[www.bbi-europe.eu/](http://www.bbi-europe.eu/)

*BERST project*

<http://www.berst.eu/>

*S2Biom project*

<http://www.s2biom.eu/en/>

<https://ec.europa.eu/jrc/en/scientific-tool/bioeconomy-observatory>

### **2. COOPERATION**

- inter-regional*
- cross-regional*
- macro-regional*

- 6. Smart Specialisation Platform – Agro-Food** *6-7/12 kick-off, joint investments*
- 7. Knowledge Exchange Platform (KEP)**
- 8. Tools to link EU regions, clusters and networks**  
*(study, eye@ RIS3, SCAR, BioE Stakeholders Panel, ERRIN, ERRIAF, Bio-NCPs, EIP – AGRI, Vanguard)*
- 9. Macro-regional Strategies** *(policy tool)*

<http://s3platform.jrc.ec.europa.eu/agri-food>

*Next event: 16/11 [Czech Rep]*

*EYE @RIS tool*

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

<http://www.s3vanguardinitiative.eu>

*BONUS, BLUEMED*

### **3. FINANCIAL TOOLS**

- 10. H2020–ESIF Synergies on Bioeconomy**
- 11. InnovFin**
- 12. Juncker Package – ESFI**

*Seal of Excellence (SoE)*

*Guides:*

<https://ec.europa.eu/research/regio/ns/index.cfm?pg=publications>

# Eye@RIS3 – an online database - RIS3 priorities

Wide variety of specific RIS<sup>3</sup> priorities,  
cross-sectoral and cross-technology sub-areas:

**101 results for 'Agriculture,  
forestry & fishing'**



Word cloud containing terms such as: Bio-economy, products, additives, packaging, natural recycling, distribution, bio-energy, agro, High Biomass ecosystems, bio-industries, innovative chemistry, husbandry, foodstuffs, environment, production, Marine, crops, energies, Environmental, fisheries, efficiency, exports, cultures, economy, molecules, agricultural, Climate, animal livestock, horticulture, equipment, industrial life farm, cosmetic, value, energy, Biodiversity, farming, Dairy, waste blue, Forest, Change, continental, green, clean, crop, materials, bio-resources, Agro-Industry, services, Growth, Genetics, solutions, hybrid, by-products, KETs, health, chemical, intelligent, Fishing, conservation, healthy, Gastronomy, cosmetics, security, resources, industries, chain, Algae, Engineering, Organic, use, Maritime, quality, sustainability, precision, processing, forestry, nutrition, new, bioenergy, hygiene, Eco-friendly, agro-machineries.

**167 EU regions** (from 19MS)  
**+ 18 EU MS at national  
level**

+ observers from Norway, Serbia,  
Turkey, Moldova

## YOU MAY USE TO:

- ✓ to identify your niches
- ✓ to enable benchmarking
- ✓ to seek partners

Register here:  
<http://s3platform.jrc.ec.europa.eu/registration>

## Bioeconomy EU successful projects – For regions' inspiration!



Source photo: metsaboard.com

**EFSI Aankoski  
– FINLAND:**  
Next generation  
**bio-product mill**  
for boxboards  
and white  
linerboards  
production made  
from **fresh forest**  
**fibres**



**FIRST 2 RUN  
PROJECT:**  
(17m€, Sardinia)  
An **abandoned**  
**oil refinery**  
transformed  
into a **biorefinery**  
uses **dry crops**  
for the production of  
chemicals used for  
food/feed, energy



**MIRACLES  
PROJECT**  
(12m€)  
New technologies  
that uses **algae**  
to produce useful  
products for  
food, aqua-feeds  
& non-food  
production



**CHIMIO  
PROJECT:**  
Facial  
creams &  
bioplastics  
made from  
**crab-shell**  
**waste**

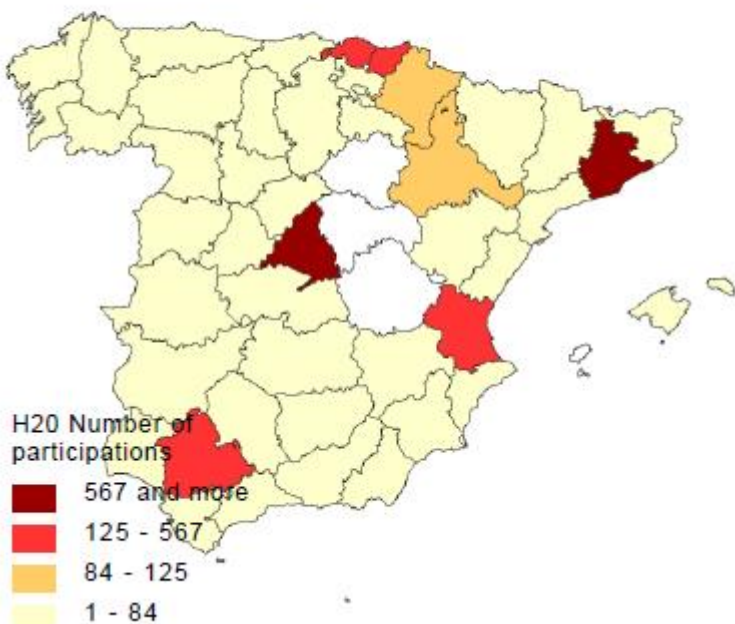


**AQUARIS -  
Brussels:**  
(2011, 1st industrial  
prototype)  
**Bioplastic**  
production  
from  
**municipal**  
**wastewater**



# VALENCIA AND SPAIN PARTICIPATION IN H2020

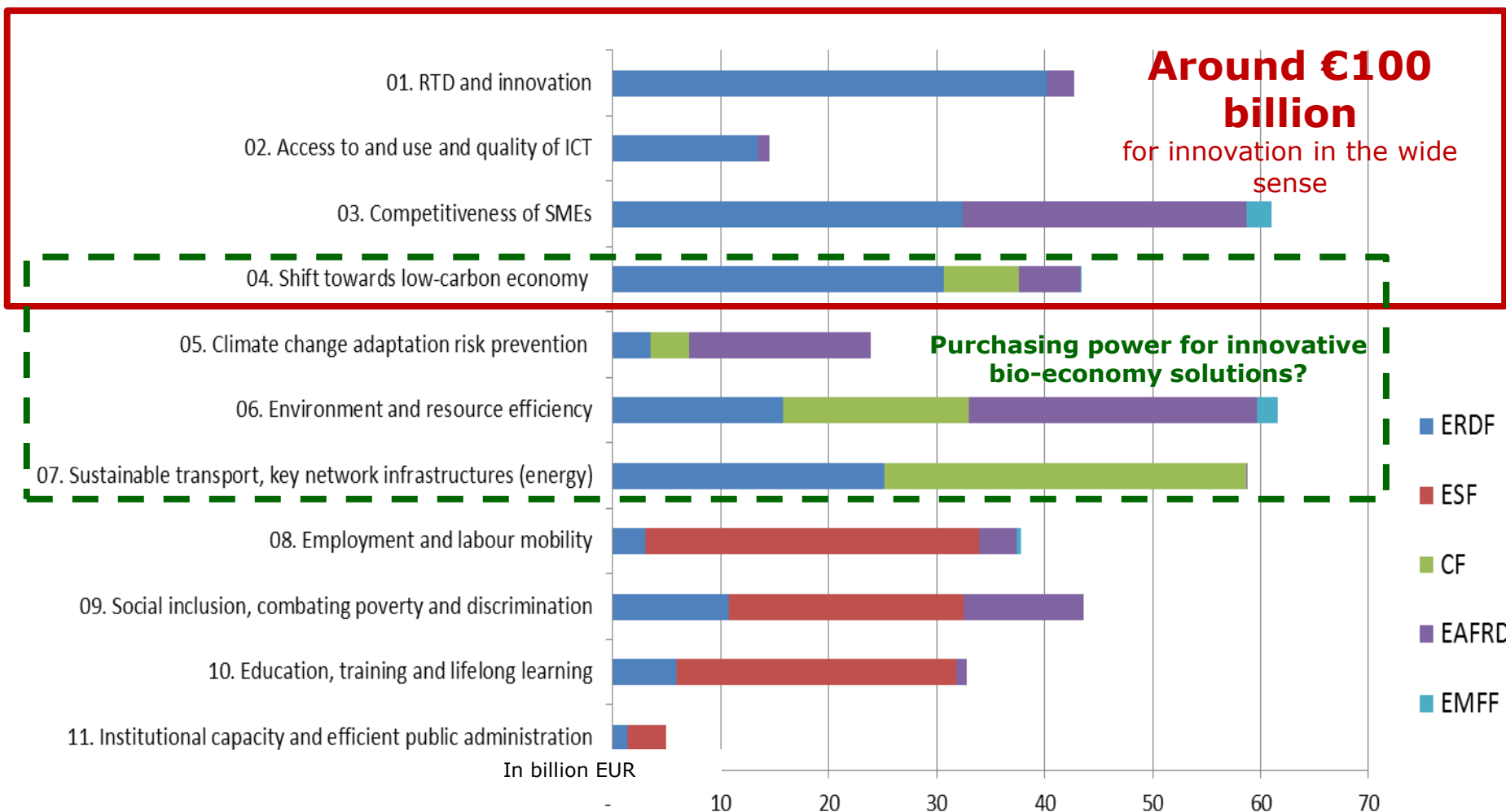
ES - Spain - H2020 participation (NUTS3)



Valencia / Valencia (ES523) at Glance

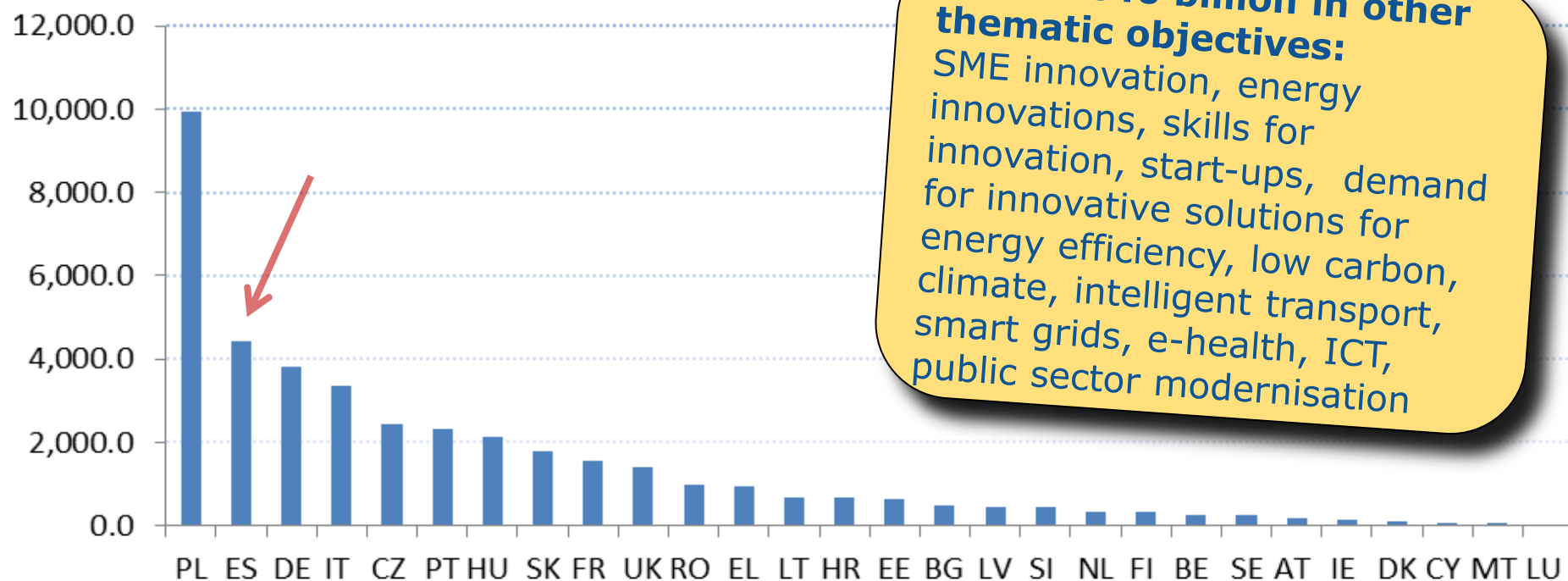
Region Profile Indicators	Valencia / València	Spain	EU-28*
Nr. of H2020 applicants	2.270 (6,55% of ES, 0,78% of EU-28*)	34.633 (11,86% of EU-28*)	291.954
Req. EC contribution by H2020 applicants in EUR million	873,26 (6,17% of ES, 0,66% of EU-28*)	14.154,15 (10,68% of EU-28*)	132.533
Nr. of successful H2020 applicants	252 (5,51% of ES, 0,62% of EU-28*)	4.577 (11,24% of EU-28*)	40.738
Req. EC contribution by successful H2020 applicants in EUR million	88,18 (5,17% of ES, 0,51% of EU-28*)	1.706,15 (9,81% of EU-28*)	17.396,21
Success rate H2020 applicants	11,1%	13,2%	13,1%
Success rate H2020 EC contribution	10,1%	12,1%	13,1%
Nr. of H2020 grant holders	235 (5,73% of ES, 0,65% of EU-28*)	4.098 (11,26% of EU-28*)	36.392
EC contribution to H2020 grant holders in EUR million (% EU-28*)	75,83 (5,19% of ES, 0,50% of EU-28*)	1.459,65 (9,54% of EU-28*)	15.305,24
Nr. of H2020 coordinators (% of grant holders)	61 (25,96%)	1.155 (28,18%)	8.886 ( 24,42%)
Nr. of H2020 SME grant holders (% grant holders)	107 ( 45,53%)	1.082 (26,40%)	8.069 ( 22,17%)
EC contribution to H2020 SME grant holders in EUR million (% of grant holders)	32,39 ( 42,71%)	302,55 (20,73%)	2.591,57 ( 16,93%)

# Thematic breakdown of ESIF 2014-2020



## ESIF budget for research and innovation (TO1)

- € 43,7 billion + € 22 national/regional co-financing  
+ over €10.2 billion Private investment matching public support in R&I
- Including € 10 billion in financial instrument



# SYNERGIES....WHY?

## Scarce resources:

**LEGAL BASIS:** H2020 & ESIF REGULATIONS

**POLITICAL MANDATE:** JUNCKER TO MOEDAS & CRETU

➤ More efficiency

➤ Best use of public funds

- ✓ *Synergies between Horizon 2020 and ESIF aim at maximising **quantity**, **quality** and **impact** of R&I investments through **interactions** between the two policy frameworks*

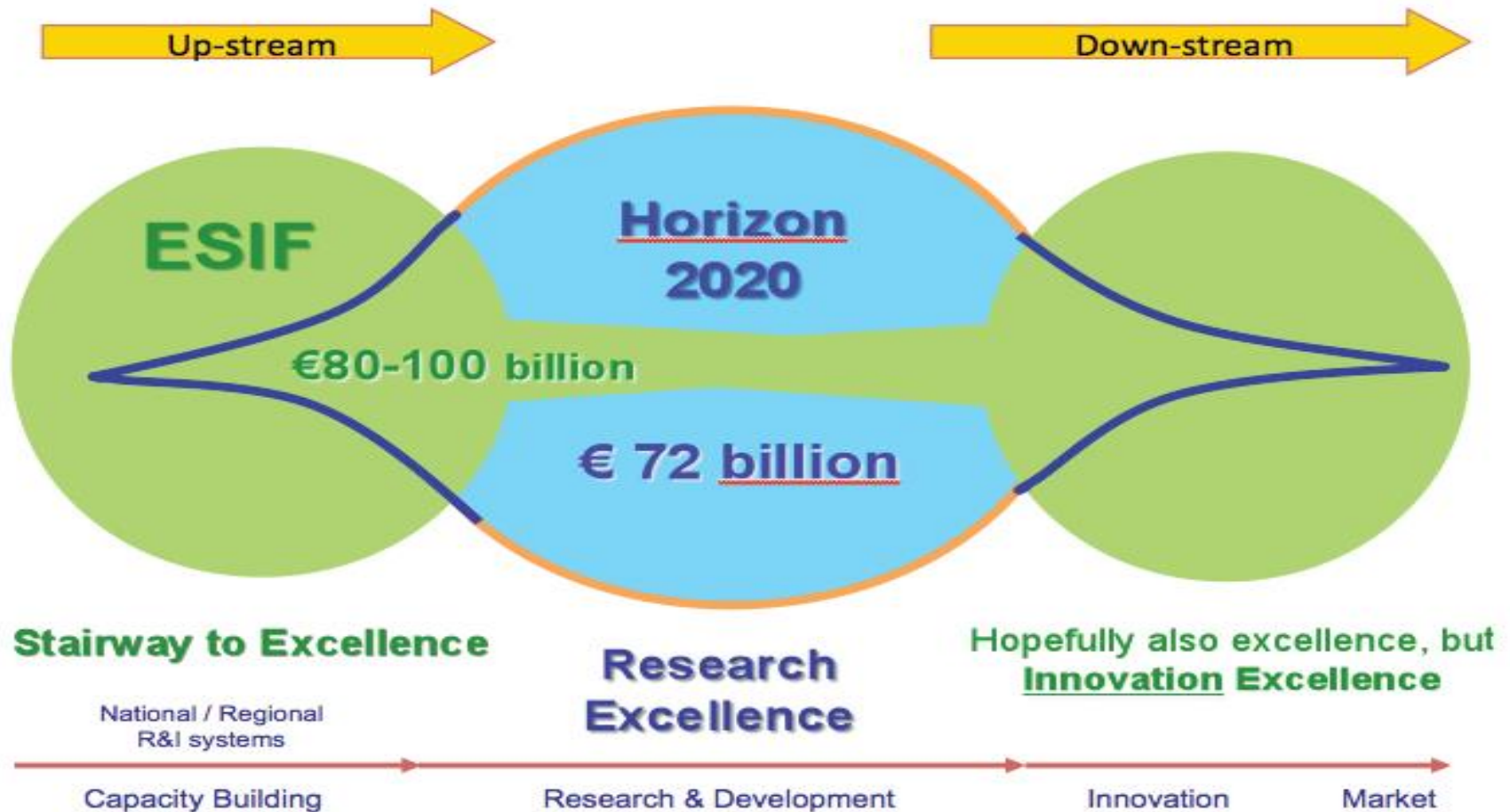


# SYNERGIES....HOW?

In the same, successive or parallel projects

- ✓ **NO double funding** of the same cost
- ✓ **NO substituting of national/regional or private co-funding** to projects/programmes from other instruments (cumulative funding).
- ✓ **NO diversion** of funding away from the purpose (RIS3)

## ESIF – H2020: Complementary role in innovation chain





# SYNERGIES CASE STUDIES: R&I actions – Pilot facilities



## 1) Bio Base Europe - Flanders and The Netherlands

Europe's 1<sup>st</sup> open innovation and training centre for bio-based economy [www.bbeu.org](http://www.bbeu.org)

*Co-Funded by ESIF (Interreg IV 2007-2013)*



## 2) Bioprocess Pilot Facility - Biotech Campus Delft / The Netherlands

5,000 m<sup>2</sup> - pilot production, scale-up processes [www.biotechcampusdelft.nl](http://www.biotechcampusdelft.nl)

*Co-funded by ESIF/ERDF*



## 3) AdiTech / Navarra, Spain [www.aditechcorp.com](http://www.aditechcorp.com)

- Regional Technology/R&I Centers + industry (agrifood, Renewable Energies, Industry, and Biomedicine)

**Experimental  
Biorefinery -  
2nd Generation  
Biofuels  
Center-CB2G  
(ESIF)**

**Further Demo-  
Joint pilot action  
with the industry  
(H2020)**

**Upscale to  
larger facilities  
(ESIF,  
H2020/BBI JU)**

## The Seal of Excellence (SoE): example of Synergies H2020 – ESIF

### Declaration on "Seal of Excellence" (SoE)

*Declarations of the Commission (Framework Programme) 2013/C 373/02 of 20.12.2013*

*'Union level intervention enables EU-wide competition to select the **best proposals**, thereby raising levels of excellence and providing visibility for leading research and innovation.*

*The Commission considers that **positively evaluated** European Research Council, Marie Skłodowska-Curie, teaming actions, phase-2 **SME instrument** or collaborative project proposals that could not be funded for budgetary reasons, have still met the Horizon 2020 criterion of excellence.*

***Upon approval of the participants**, this information can be shared with the responsible authorities.*

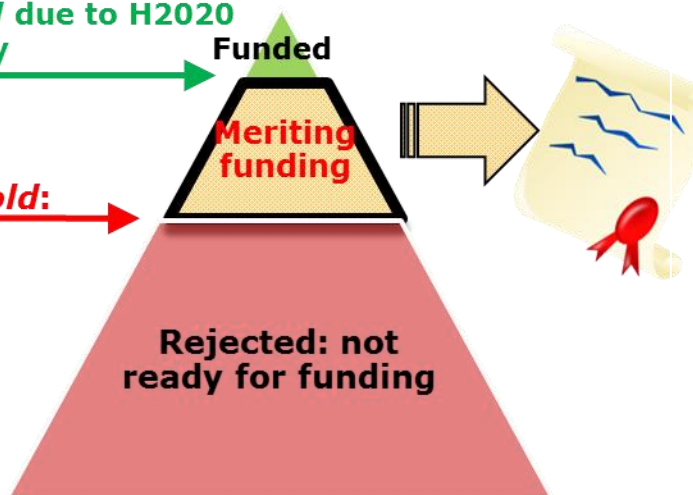
*The Commission therefore **welcomes any initiatives to fund such projects** by national, regional or private sources. In this context, **cohesion policy also has a key role to play** through building capacity.'*

★ SEAL OF ★

## Horizon 2020 evaluation:

*Funding threshold due to H2020  
budget availability*

*Quality threshold:*



Excellent proposals receive  
the SEAL OF EXCELLENCE certificate



### Pilot using the SME Instrument

- ✓ Close to intervention logic of ESIF authorities:
- ✓ Single company
- ✓ Small scale R&I actions
- ✓ Close to market



### Regions/MS taking-up 'seal of excellence' proposals:

- ✓ Benefit from pre-screening by H2020
- ✓ Make the most of a unique, high quality evaluation process
- ✓ Better use the resources
- ✓ Invest on high local impact proposals

# The SME Instrument : Seamless Business Innovation

Support from Mature Idea to Market



EU Grant of  
**€ 50,000**  
(lump sum)

**01**  
**Technical and market feasibility**  
assessment of technical feasibility and market potential of new ideas

  
Elaborated Business Plan

EU Grant of  
**€ 500,000 to 2.5 m**  
(indicative amount)

**02**  
**Demonstration activities**  
developing, testing, prototyping, piloting innovative processes, products and services

  
Commercialisable Output

**03**

**Commercialisation**  
support measures toward commercialising SMEs' innovative products

  
Market Success



DEMO  
(TRL 5)



Idea > Business Plan

**03**

- **No grant**, but...
- Coaching support
- Market and Investment Readiness support
- Promotion / networking with financiers & clients
- ... and more indirect support!



SEAL OF  
EXCELLENCE



European  
Commission

*Certificate delivered by the European Commission,  
as the institution managing Horizon 2020,  
the EU Framework Programme for Research and Innovation 2014-2020*

The project proposal 662526, ECO-MAT

Develop XXXXXXXXXXXX TITLE XXXXXXXXXXXXXXXXXXXX  
man: XXXXXXXXXXXX

Submitted under the Horizon 2020's SME Instrument  
call 2020-SMEINST-1-2014 of 15 September 2015  
in the area of

Boost: XXXXXXXXXXXXXXXX TOPIC XXXXXXXXXXXXXXXX

by  
Gr Xx Legal name xx  
Xx Legal address xx

following evaluation by an international panel of independent experts  
**WAS SUCCESSFUL IN A HIGHLY COMPETITIVE EVALUATION PROCESS\*  
AS AN INNOVATIVE PROJECT PROPOSAL**

This proposal is recommended for funding by other sources since Horizon 2020 resources  
available for this specific Call were already allocated following a competitive ranking.

\* This means passing all stringent Horizon 2020 assessment thresholds for the 3 award criteria  
(excellence, impact, quality and efficiency of implementation) required to receive funding from the EU budget Horizon 2020.

Corina Crețu,  
Commissioner for  
Regional Policy

Carlos Moedas,  
Commissioner for Research,  
Science and Innovation

Brussels, 11 March 2014

## The SEAL OF EXCELLENCE:

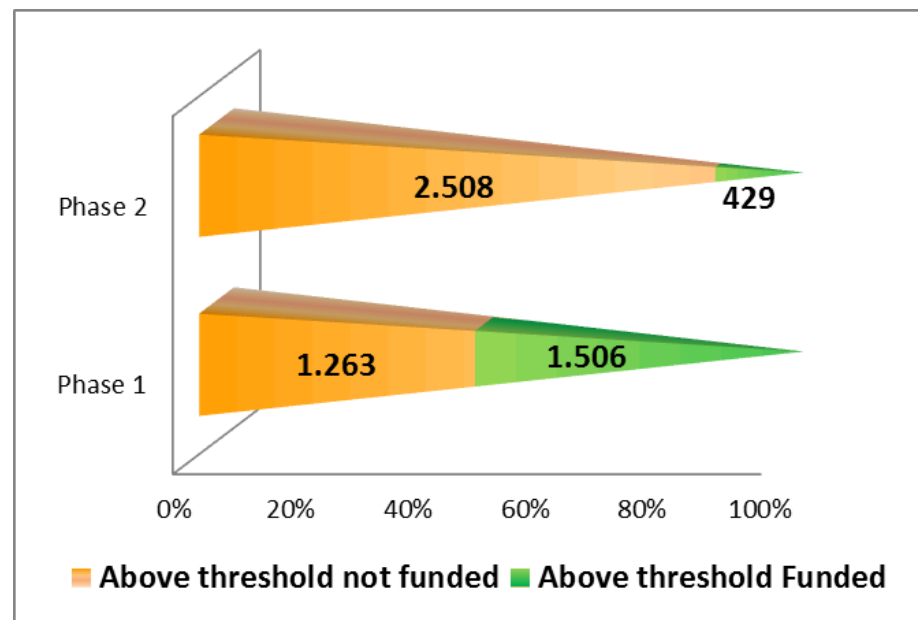
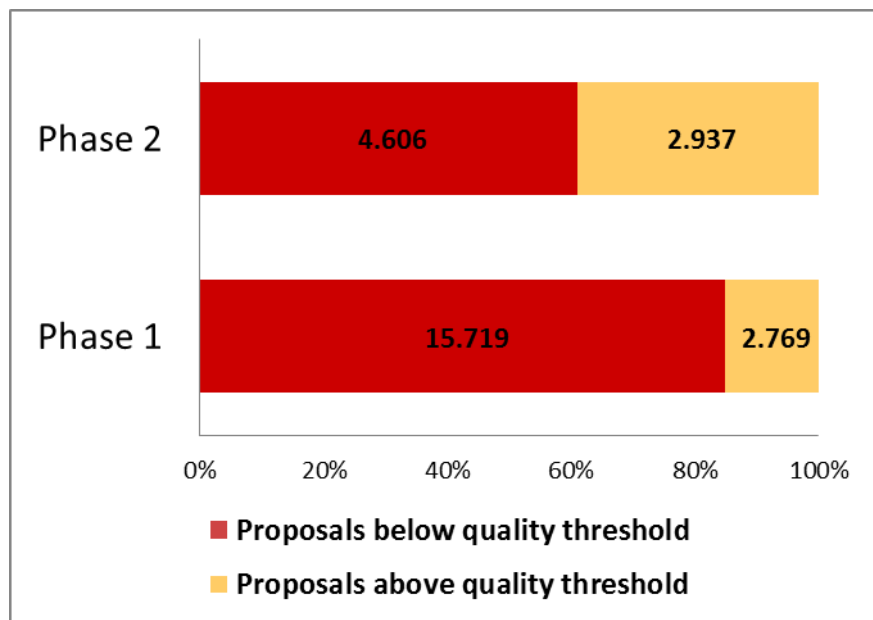
- ☐ **Awarded** to **ALL** qualifying  
SME instrument  
**PROPOSALS**
- ☐ **Downloadable** only by the  
SME/s from 'My area' in  
Participants Portal
- ☐ **Informs**
- ☐ **Builds reputation**
- ☐ **Explains**
- ☐ **Shows Political  
committment**
- ☐ **Fraud-proof**
- ☐ **Accompanying letter**



## SME INSTRUMENT:

HIGHLY POPULAR AND COMPETITIVE SCHEME

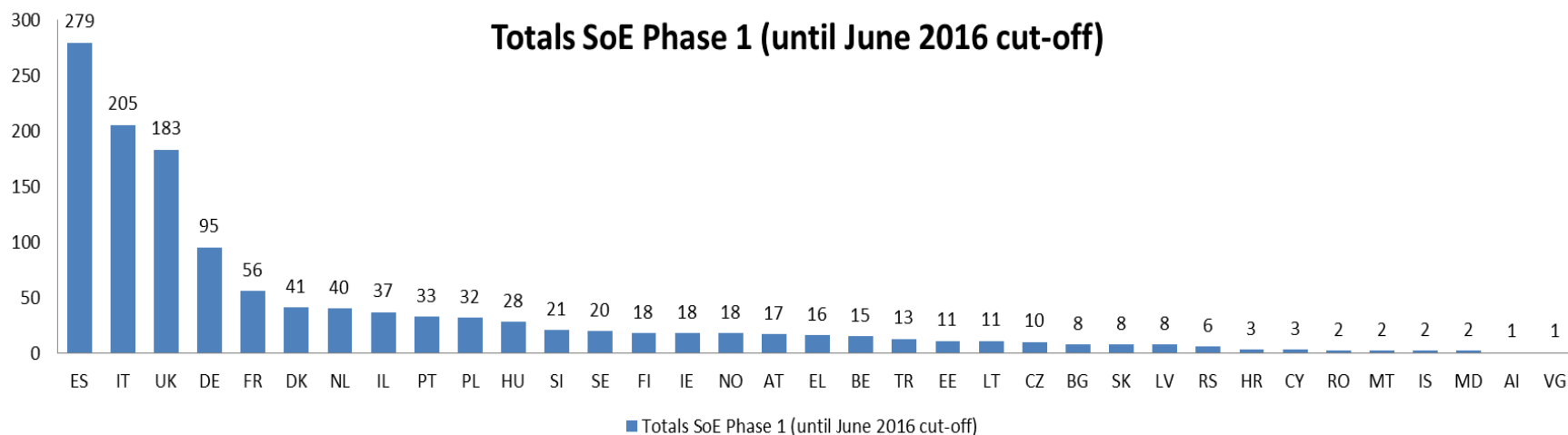
MANY DESERVING, FEW FUNDED...



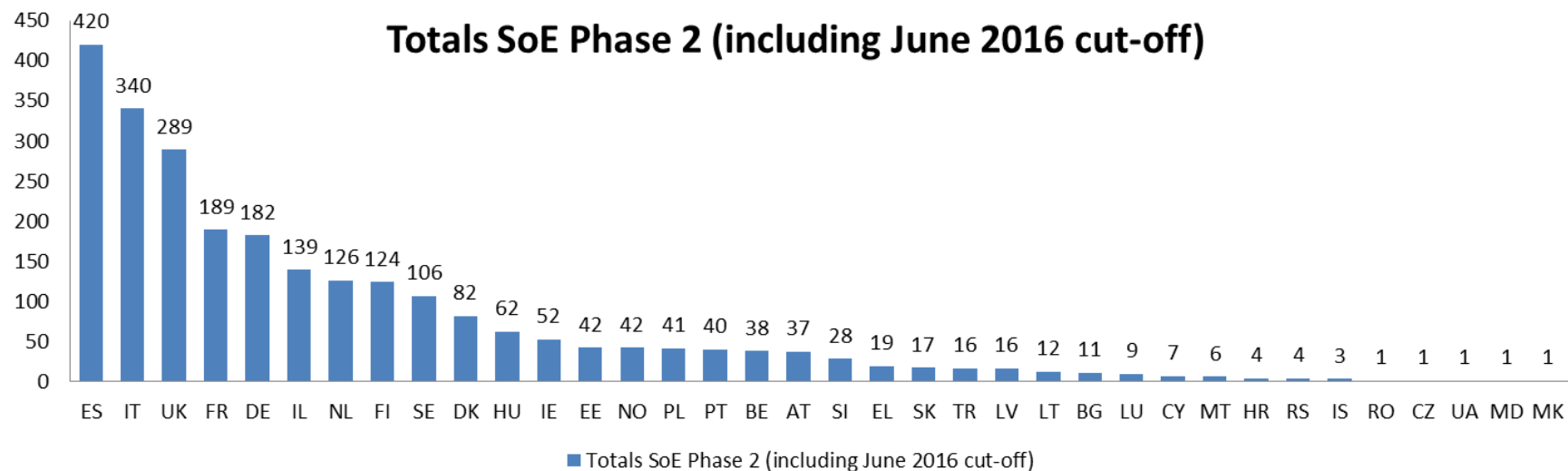
★ SEAL OF  
EXCELLENCE ★



### Totals SoE Phase 1 (until June 2016 cut-off)



### Totals SoE Phase 2 (including June 2016 cut-off)

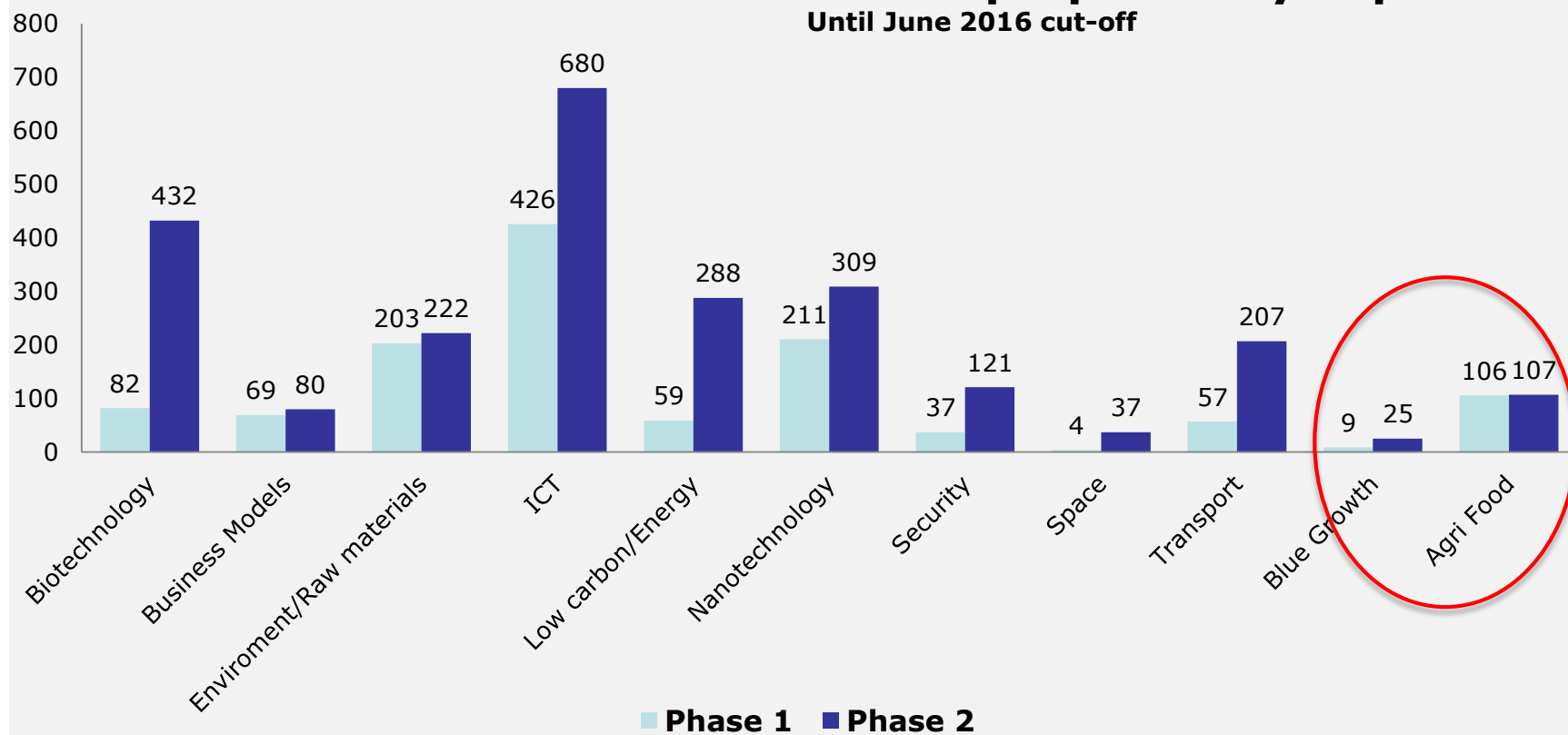


★ SEAL OF  
EXCELLENCE ★



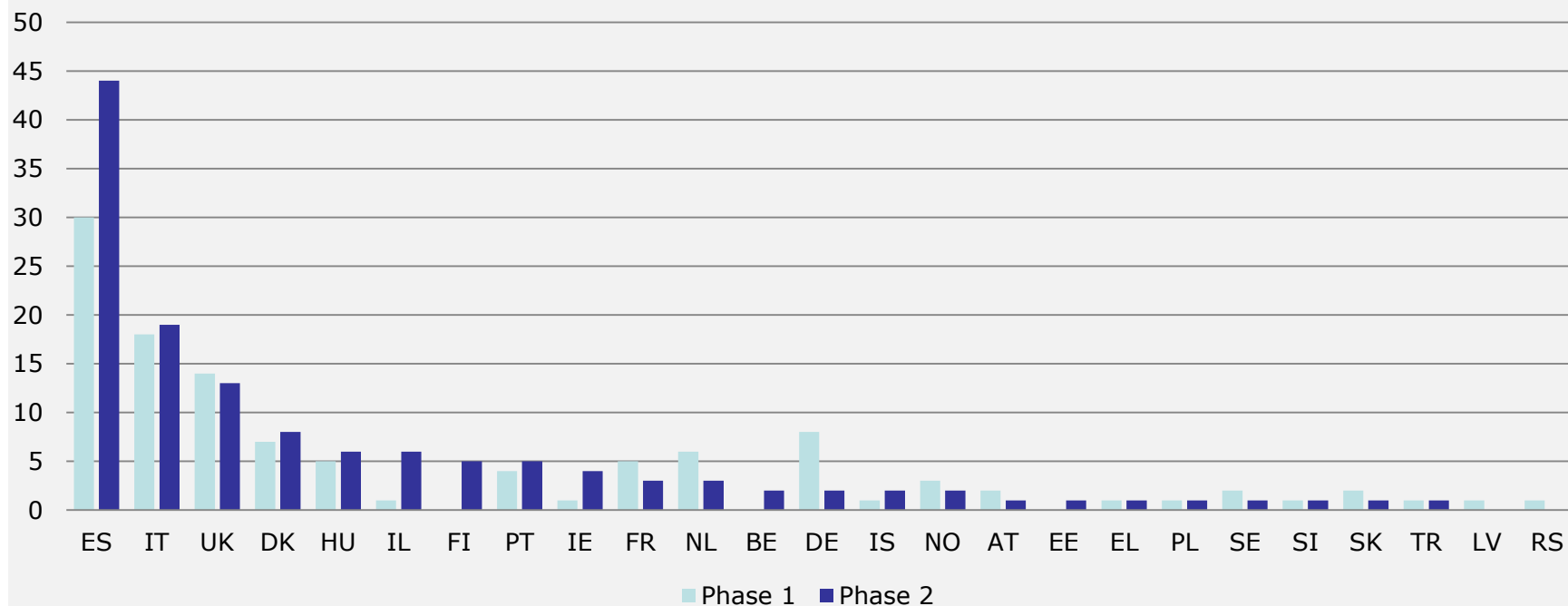
## 'Seal of Excellence' proposals by Topic

Until June 2016 cut-off



## 'Seal of Excellence' on BioEconomy by countries

Until June 2016 cut-off



## **SoE in numbers (all proposals including BioE) – SPAIN – allocation per region**

**SoE by NUTS-2 until June 2016 cut-off**

\* Data includes only coordinators in the country (not partners)

ES	ESPAÑA	Phase 1	Phase 2	Totals
		279	420	699
ES11	Galicia	7	10	17
ES12	Principado de Asturias	4	7	11
ES13	Cantabria	4	6	10
ES21	País Vasco	20	23	43
ES22	Comunidad Foral de Navarra	13	8	21
ES23	La Rioja	4	18	22
ES24	Aragón	11	27	38
ES30	Comunidad de Madrid	49	87	136
ES41	Castilla y León	9	12	21
ES42	Castilla-La Mancha	2	1	3
ES43	Extremadura	0	2	2
ES51	Cataluña	80	129	209
ES52	Comunidad Valenciana	47	54	101
ES53	Illes Balears	1	1	2
ES61	Andalucía	18	12	30
ES62	Región de Murcia	7	19	26
ES63	Ciudad Autónoma de Ceuta	0	0	0
ES64	Ciudad Autónoma de Melilla	0	0	0
ES70	Canarias	3	4	7
ESZZ	Extra-Regio NUTS 2	0	0	0
<b>TOTAL IN EU</b>		<b>1,183</b>	<b>2,301</b>	<b>3,484</b>



## "Seal of Excellence (SoE)" bring excellent R&I proposals to regions

<https://ec.europa.eu/research/regions/index.cfm?pg=soe>

### IN EUROPE - EU28:

Total SoE proposals: **>3.500**

Bioeconomy SoE proposals (SFS, BG): **~230**

### In SPAIN:

Total SoE proposals: **699** (279 Ph-1, 420 Ph-2)

Bioeconomy SoE proposals (SFS, BG): **74** (44 Ph-1, 30 Ph-2)

### In VALENCIA:

Total SoE proposals: **101** (47 Ph-1, 54 Ph-2) of which,

Bioeconomy SoE proposals (SFS, BG): **3**

(1 Ph-1, 2 Ph-2, 2.358.815 €)

**7%** of all  
SoE proposals  
go to  
Bioeconomy

**20%** of all  
SoE  
proposals go  
to SPAIN  
(all fields  
including BioE)

**30%** of all  
BioE  
proposals go  
to SPAIN

**3%** of all  
SoE  
proposals go  
to VALENCIA



SME Instrument 'SEAL':  
Financial support Ph1

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EXCELLENCE

## Calls/funding Phase 1 - 'seal' proposals

Available now:

- **Spain:**

**Call 2015: €8.6m, Phase-1, 136 SoE supported, closed: 10/2015**

**Call 2016(Horizonte PYME): €3.7m, closed: 18/5/2016**

Under preparation:

- **Asturias:**

**Call for Asturias SoE: €350K, 7 SoE proposals; in June 2016**

[http://ec.europa.eu/research/regions/index.cfm?pg=soe\\_cases#case2Spain](http://ec.europa.eu/research/regions/index.cfm?pg=soe_cases#case2Spain)



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## KEY MESSAGES TO SMEs :

***SMEs usually welcome the seal, BUT Expectations have to be managed:***

- A great opportunity, but process just starting: be patient!
- No guarantee of 'automatic' alternative funding and/or to the funding intensity of H2020 / *Not to be used for DOUBLE FUNDING*
- It's up to the applicant/SME to use it (no obligation!)
- Make available to the funder ALL documents at your disposal  
(*Full Proposal, Evaluation Summary Report,...*)
- DIVERSIFY your search for funding (NOT ONLY ESIF!)
  - In terms of sources (*public ESIF or own resources*)
  - and type (*grants / financial instruments*)



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## KEY MESSAGES TO FUNDING BODIES:

(Managing Authorities, nat/reg agencies, private foundations, banks, VCs, bus.angels)

- SoE are excellent projects, not left-overs from Horizon 2020  
*(strict criteria, international panel, transparent and competitive evaluation)*
- Great opportunity to exploit H2020 first-class evaluation system
- Keep the process as simple as possible: **no need to re-evaluate the content**
- ESIF can be used, just foresee it in the Selection Criteria!
- Different support can be provided: grants/**loans/guarantee**/... general support
- 'Seal'- under-performing MSs: consider the learning curve and incentive effect!

You are not alone: join the **COMMUNITY OF PRACTICE!**



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# OUR PROPOSAL TO SUPPORT YOU:

***The Community of Practice*** Official launch: 12/10/2015 (Open Days)

- **MEMBERSHIP:** funding bodies interested in invest in SoE
- **PURPOSE:** Exchange of practices, address / solve bottlenecks
- **TOOLS:** Intranet (Sinapse) + regular meetings in Bruxelles

→ Next meeting: 20 October 2016

- In SEPT 2016: **175** members from **25** MSs+Norway and Serbia

**ES members:** Catalonia, Aragon, Asturias, Galicia, Cantabria, Andalucia

**FUNCTIONAL MAILBOX FOR YOUR EXPRESSION OF INTEREST  
Or MORE INFO:**

[RTD-SEAL-OF-EXCELLENCE@ec.europa.eu](mailto:RTD-SEAL-OF-EXCELLENCE@ec.europa.eu)



## TRY BIOECONOMY



### Bio-Based Industries Joint Undertaking (BBI-JU)

<http://www.bbi-europe.eu/>

### SYNERGIES & SEAL OF EXCELLENCE (**new website!**)

<http://ec.europa.eu/research/regions/>

### GUIDE FOR AUTHORITIES ON ESIF-H2020 SYNERGIES

[http://ec.europa.eu/regional\\_policy/activity/research/index\\_en.cfm](http://ec.europa.eu/regional_policy/activity/research/index_en.cfm)

### AGRI-FOOD SMART SPECIALISATION PLATFORM

<http://s3platform.jrc.ec.europa.eu/agri-food> (**new initiative!**)

### VANGUARD INITIATIVE/ Bioeconomy Pilot Project

<http://www.s3vanguardinitiative.eu/cooperations/bioeconomy-interregional-cooperation-innovative-use-non-food-biomass>

### GUIDES ON ESIF-H2020 SYNERGIES

<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/other/index.html>

[http://www.bbi-europe.eu/sites/default/files/documents/Guidelines\\_BBI-ESIF-Final.pdf](http://www.bbi-europe.eu/sites/default/files/documents/Guidelines_BBI-ESIF-Final.pdf)

### S3 KNOWLEDGE REPOSITORY

<http://s3platform.jrc.ec.europa.eu/knowledge-repository>

**More info:** Christina Nanou (DG RTD)  
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**Thank you!**

**Bioeconomy:  
A new opportunity for  
EU regions!**

HORIZON 2020