

#innovacion
#financiacion
#asesoramiento
#internacionalizacion



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H2020 - Reto Social 2

Seguridad alimentaria, agricultura y silvicultura sostenibles, investigación marina y marítima y de aguas interiores y la bioeconomía

CITA – Zaragoza, 28 de marzo de 2019



Marta Conde
Punto Nacional de Contacto Reto Social 2,
Biotechnología y PRIMA

Dirección de Programas Europeos y Cooperación
Territorial
CDTI E.P.E.

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CDTI Centro para el Desarrollo Tecnológico Industrial | E.P.E.

BUDGET

**Excellent
Science**

**Industrial
Technologies**

**Societal
Challenges**

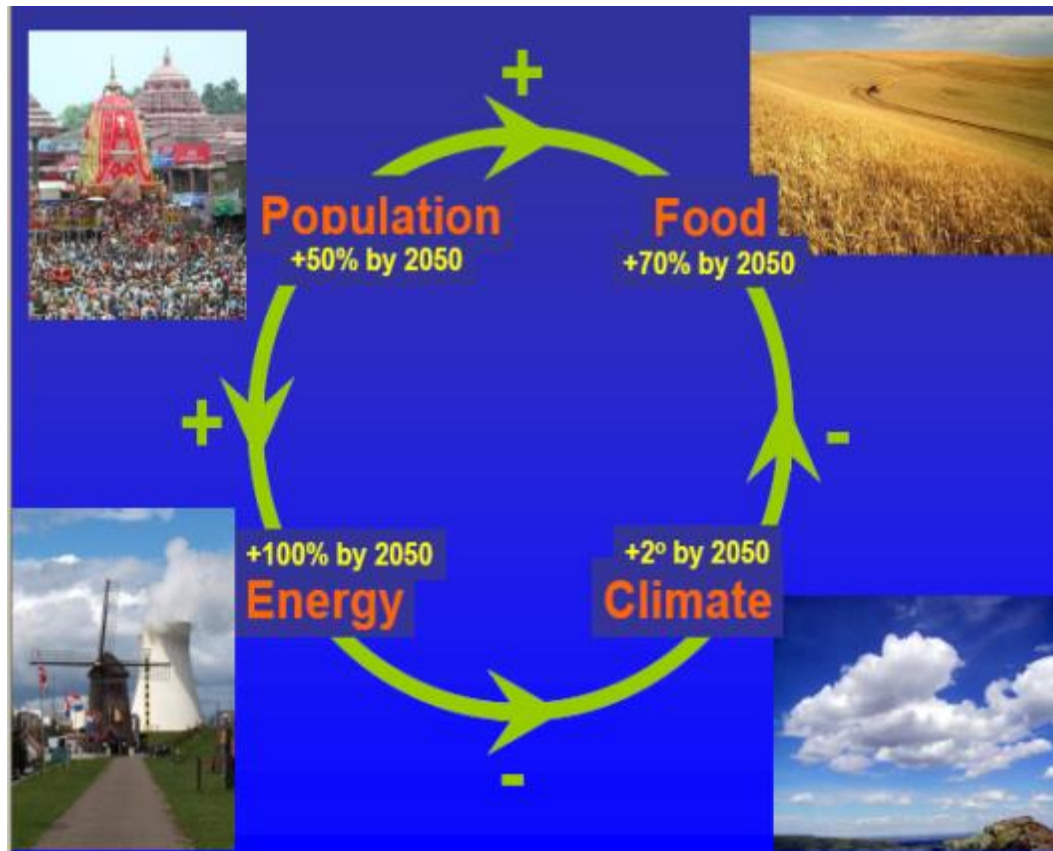
HORIZONTE 2020		74.828
I. Prioridad «Ciencia excelente»		24.232
1. El Consejo Europeo de Investigación (CEI)		13.095
2. Las Tecnologías Futuras y Emergentes (FET)		2.585
3. Las acciones Marie Skłodowska-Curie		6.162
4. Las Infraestructuras de Investigación		2.390
II. Prioridad «Liderazgo industrial»		16.466
1. Liderazgo en tecnologías industriales y de capacitación:		13.035
1.1 Tecnologías de la Información y la comunicación (TIC)		7.423
1.2 Nanotecnologías, 1.3 Materiales avanzados y 1.5 Fabricación y transformación avanzadas		3.741
1.4 Biotecnología		501
1.6 Espacio		1.403
2. Acceso a la financiación de riesgo		2.842
3. Innovación en las PYME		589
III. Prioridad «Retos de la sociedad»		28.630
1. Salud, cambio demográfico y bienestar		7.257
2. Seguridad alimentaria, agricultura y silvicultura sostenibles, investigación marina, marítima y de aguas interiores y Bioeconomía		3.708
3. Energía segura, limpia y eficiente		5.688
4. Transporte inteligente, ecológico e integrado		6.149
5. Acción por el clima, medio ambiente, eficiencia de los recursos y materias primas		2.956
6. Europa en un mundo cambiante – Sociedades inclusivas, innovadoras y reflexivas		1.258
7. Sociedades seguras – Proteger la libertad y la seguridad de Europa y de sus ciudadanos		1.613
Difundir la excelencia y ampliar la participación		816
Ciencia con y para la sociedad		445
VI. Acciones directas no nucleares del Centro Común de Investigación (JRC)		1.856
VII. Instituto Europeo de Innovación y Tecnología (EIT)		2.383

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- **The challenge and the legal and political framework.**
- **EU Bioeconomy Strategy.**
- **Horizon 2020 – Societal Challenge 2 & WP 2018-2020**
- **EIP-AGRI – Links to Horizon 2020**
- **Joint Technology Initiative on Bio-Based Industries**
- **PRIMA**
- **Other R&I Partnerships: JPI, ERA-NET Cofund, and KIC Food**
- **Results - H2020 SC2 (2014-2017)**
- **Toward FP9**

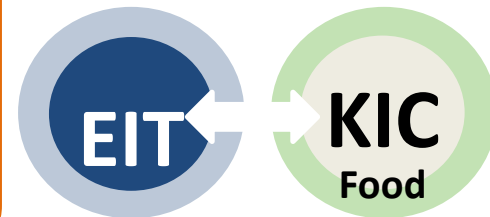
Societal Challenge 2

Addressing “GRAND CHALLENGES”.



Fuente: Patrick Cunningham, KBBE Conference Brussels 14th September 2010
José María Sumpsi, "Los retos de la agricultura para alimentar al mundo en 2050".

The EU Bioeconomy Universe



Societal Challenge 2 Bioeconomy
3.708M€ (2014-2020)

Biennial Work Programmes and annual Calls



JTI on Bioindustries 975M€
Annual Work Plans



H2020 Multiactor Approach projects & Thematic Networks

Operational Groups & Projects – Rural Development Policy (CAP)



- ❑ Europe 2020. A strategy for smart, sustainable & inclusive growth. (3.3.2010) COM(2010) 2020 Final.
- ❑ Innovating for Sustainable Growth: A Bioeconomy for Europe. (13.02.2012) COM (2012)60 Final.
- ❑ H2020- Regulation (EU) N°1291/2013 of de European Parliament and of the Council.
- ❑ Specific Programme H2020. Council Decision(2013/743/UE). (03.12.2013)

Support to Policies is essential - links between research projects and EU policies

- Sustainable Development Goals (SDG)
- COP 21 Paris Climate Agreement
- Common Agricultural Policy (CAP) – EIP AGRI
- EU Bioeconomy Strategy
- Circular Economy Package
- EU Integrated Maritime Policy
- EU Common Fisheries Policy - CFP

Who is doing what?

Societal Challenge 2

A concerted effort: from policy to project to policy, for the society

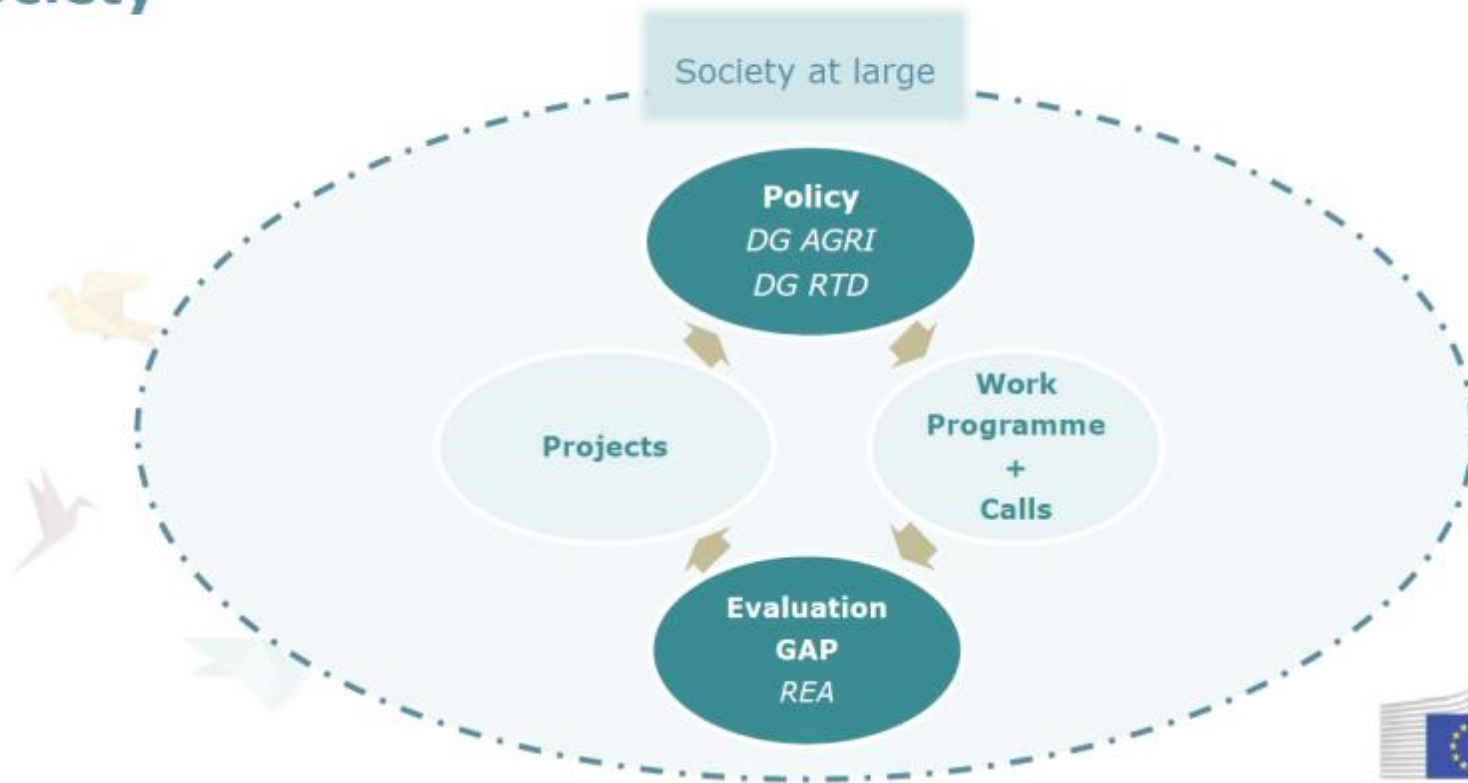


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The Bioeconomy starts here!

<http://www.youtube.com/watch?v=2xvXkOMRTs4>



*Brussels, 13.2.2012
COM(2012) 60 final*



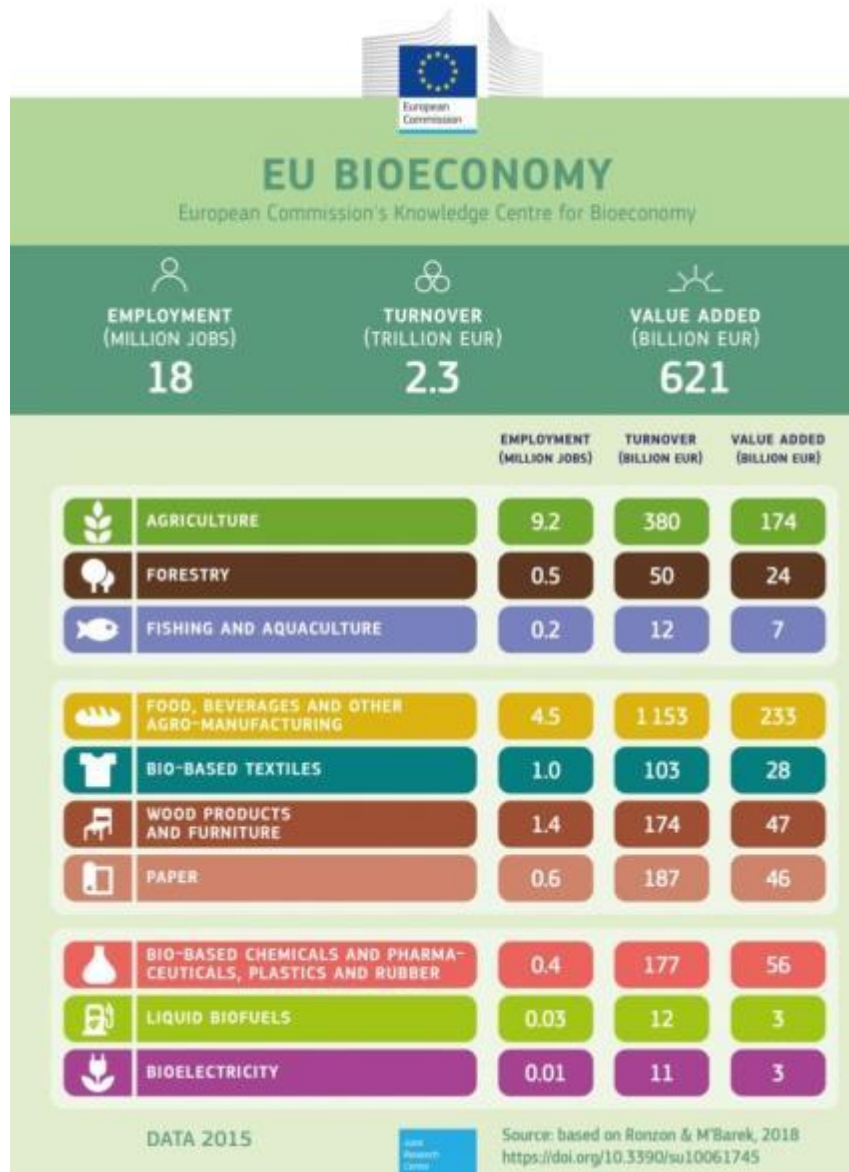
*Review of the 2012
European Bioeconomy
Strategy (2017)*



*A Sustainable Bioeconomy for
Europe: strengthening the connection
between economy, society and the
environment*

(2018)

The Bioeconomy in figures in the EU -2015



4,2% GDP

Turnover
2.300 billion €

Value added
621 billion €

Employment 18 million
people

Source: *A Sustainable Bioeconomy for Europe* (2018)



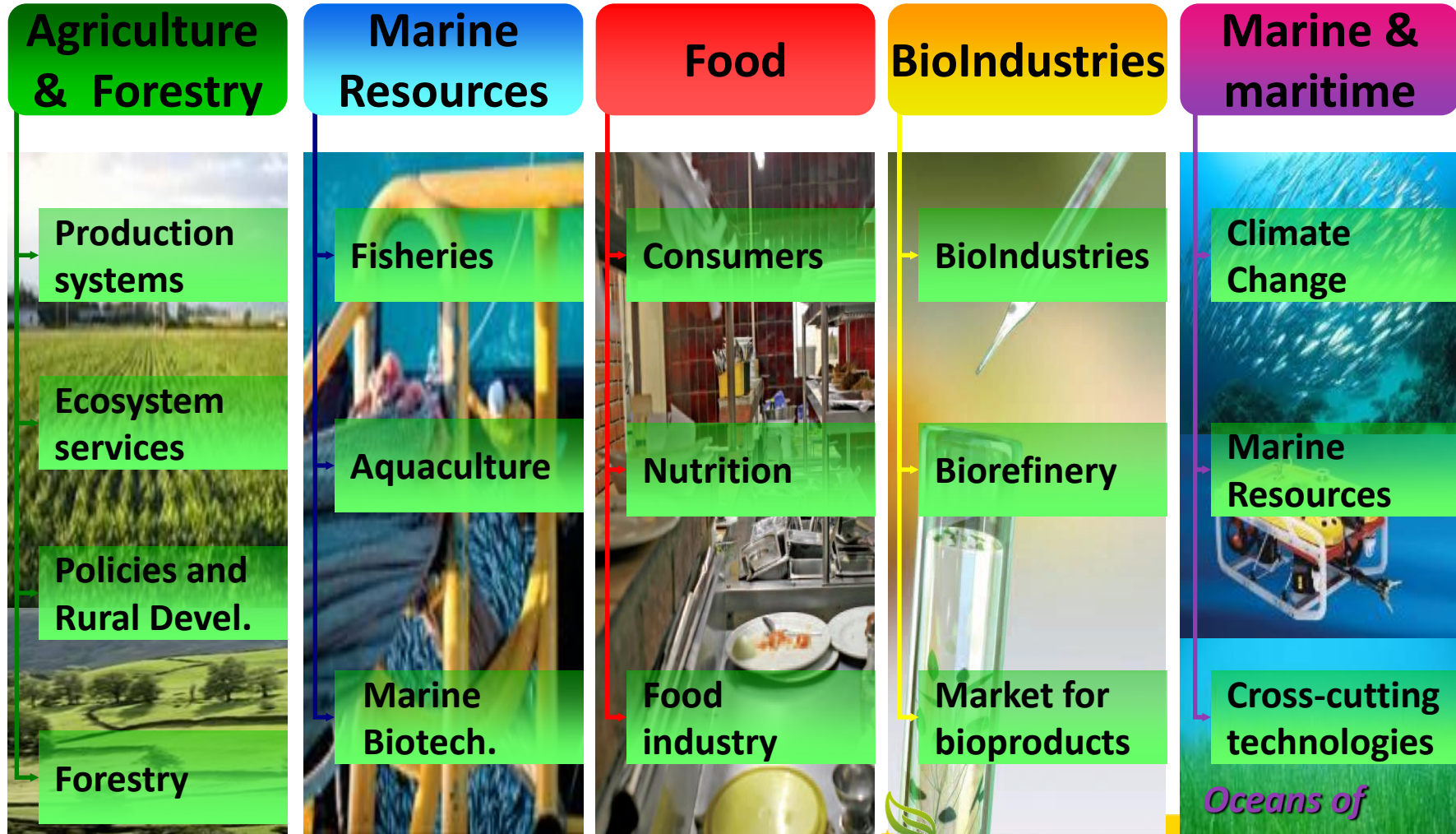
***Dedicated
Bioeconomy
Strategy***

Source: German Bioeconomy Council

***No Bioeconomy
Strategy in place***

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SC2 – Timeline

2014	2015	2016	2017	2018	2019	2020
Strategic Programme						
Work Programme 1		Strategic Programme				
		Work Programme 2		Strategic Programme		
				WP 3 (18-19)		WP 4 (2020)

€ 482 M

€ 756 M

**SC2 WP 2018-2020.
1.333M€**

SC 2 WP2018-2020 The policy context

- Global commitments

- European policies



CAP & EIP-AGRI

Climate & energy



Bioeconomy strategy

Circular economy



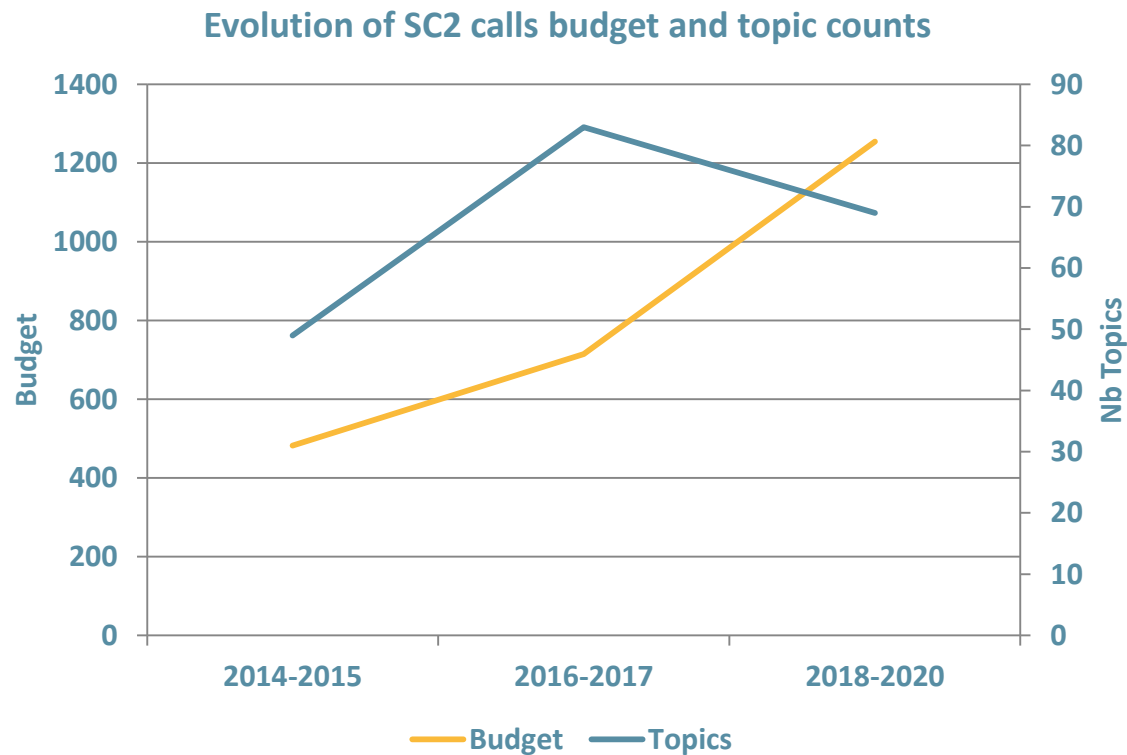
United Nations
Framework Convention on
Climate Change



Integrated Maritime and
common fisheries policies

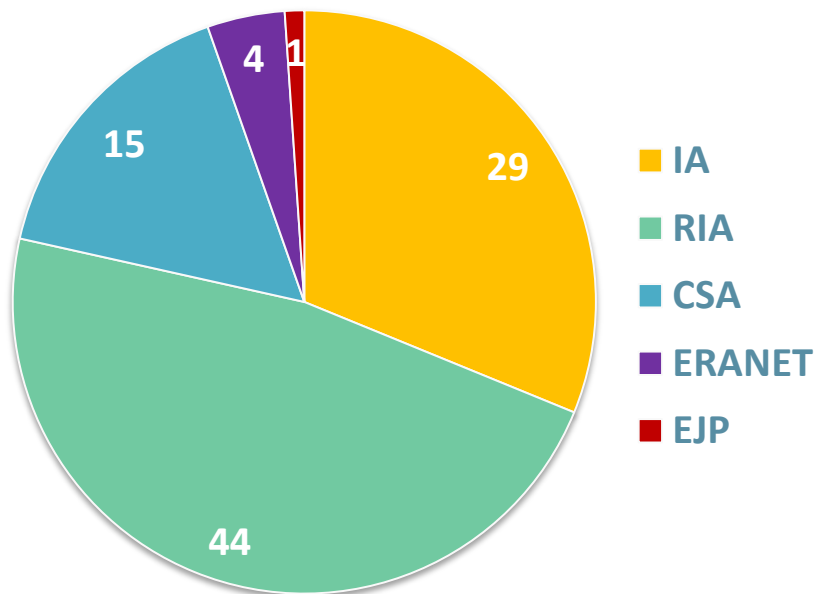
Digital single
market

A more strategic and focused approach

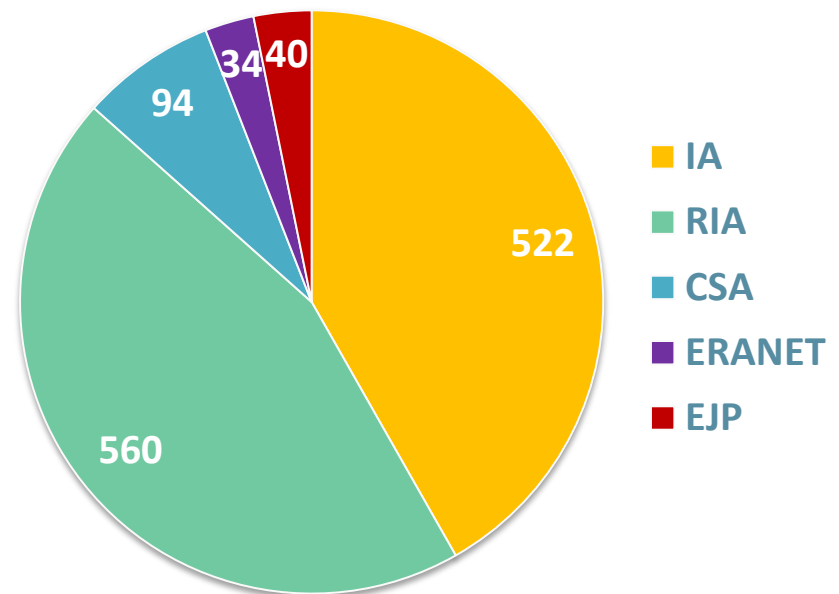


Instruments: balancing close to market actions with investment in new knowledge

Number of actions by type of action



Budget by type of action (M€)



Open innovation, open science, open to the world

- Open innovation
 - **€500 mio for multi-actor projects** (interactive innovation linked to EIP-AGRI)
- Open science
 - Research data sharing **by default**
 - **Open science clouds**: Food cloud demonstrators (10M€) & Blue cloud services (6M€)
- Open to the world
 - **89M€** on **EU-AFRICA** partnership on Food and Nutrition Security and Sustainable Agriculture
 - **23M€** on **EU-CHINA**
 - **64M€** on "**All Atlantic Ocean Research Alliance**"
 - **PRIMA**



CAP Rural Development.....EIP AGRI.....H2020

CAP /Rural development
(regional/national level)



(European projects)

- Research projects
- Multi-actor projects and thematic networks (interactive innovation)



OPERATIONAL GROUP

Involvement of OGs is strongly recommended



CDTI Centro para

Unique EU knowledge repository of contacts and practice abstracts



Spread the results

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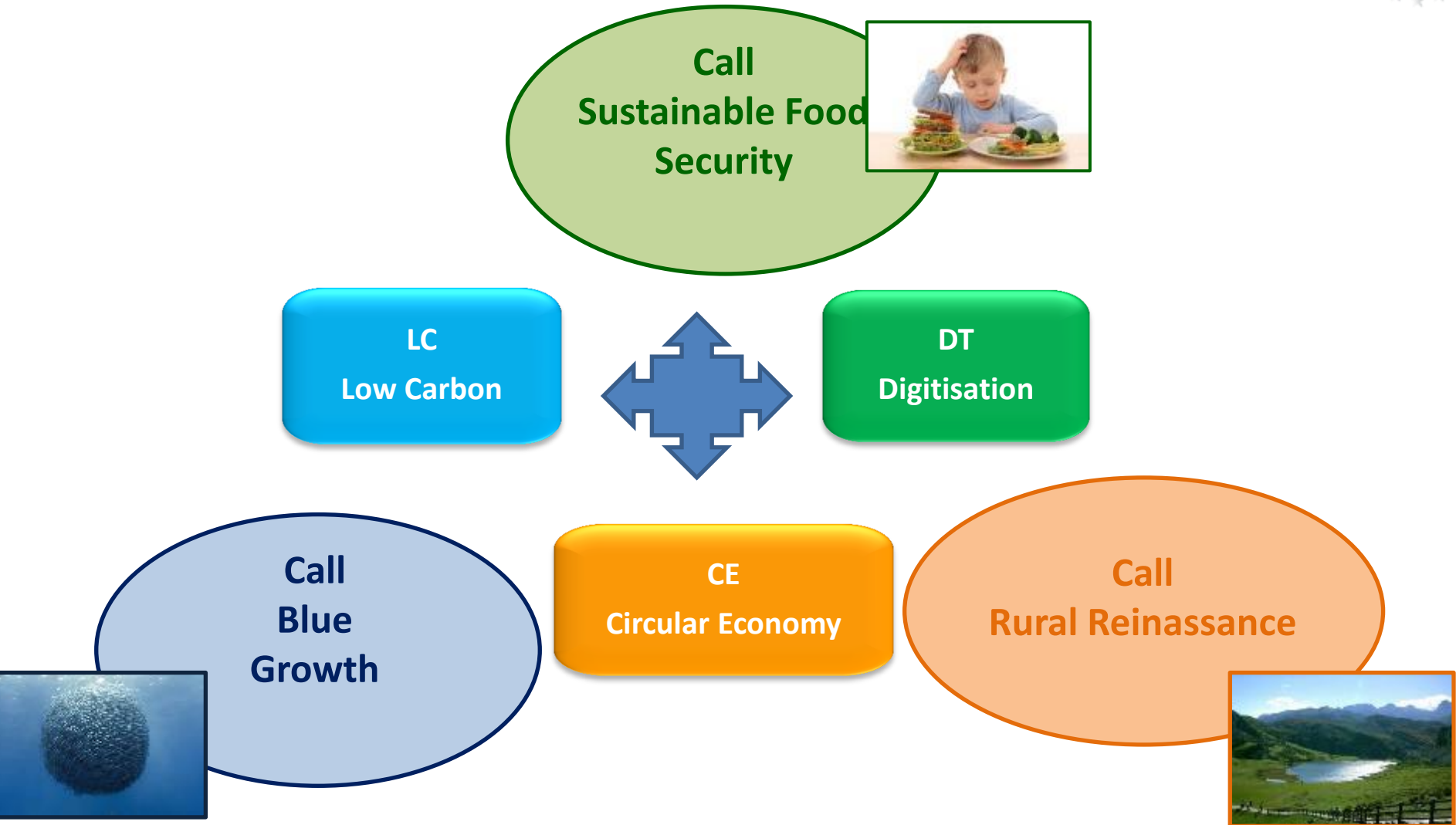
Funding for:

OG preparation

OG projects

Innovation support services

WP 2018-2020.- 3 Calls & 3 Virtual Focus areas



WP published – 27th October 2017

SC2 WP 2018-2020 1.333 millones de euros

Call/Budget year	2018	2019	2020	Total	%
SFS	218,75	296	213	727	55%
BG	77,5	89	72	238	18%
RUR	102	74	96	272	20%
Other actions	60	21	10,	95	7%
Total	459	483	391	1.333	100%

Presupuesto en millones de euros

*Información susceptible de sufrir modificaciones en la publicación oficial en el Portal del Participante



CALL

Sustainable Food Security (SFS)

€ 753 million to use our resources more wisely
and nourish people more sustainably



Produce more diverse and healthier food from well-managed functional ecosystems



Increase resource efficiency and environmental performance of food systems

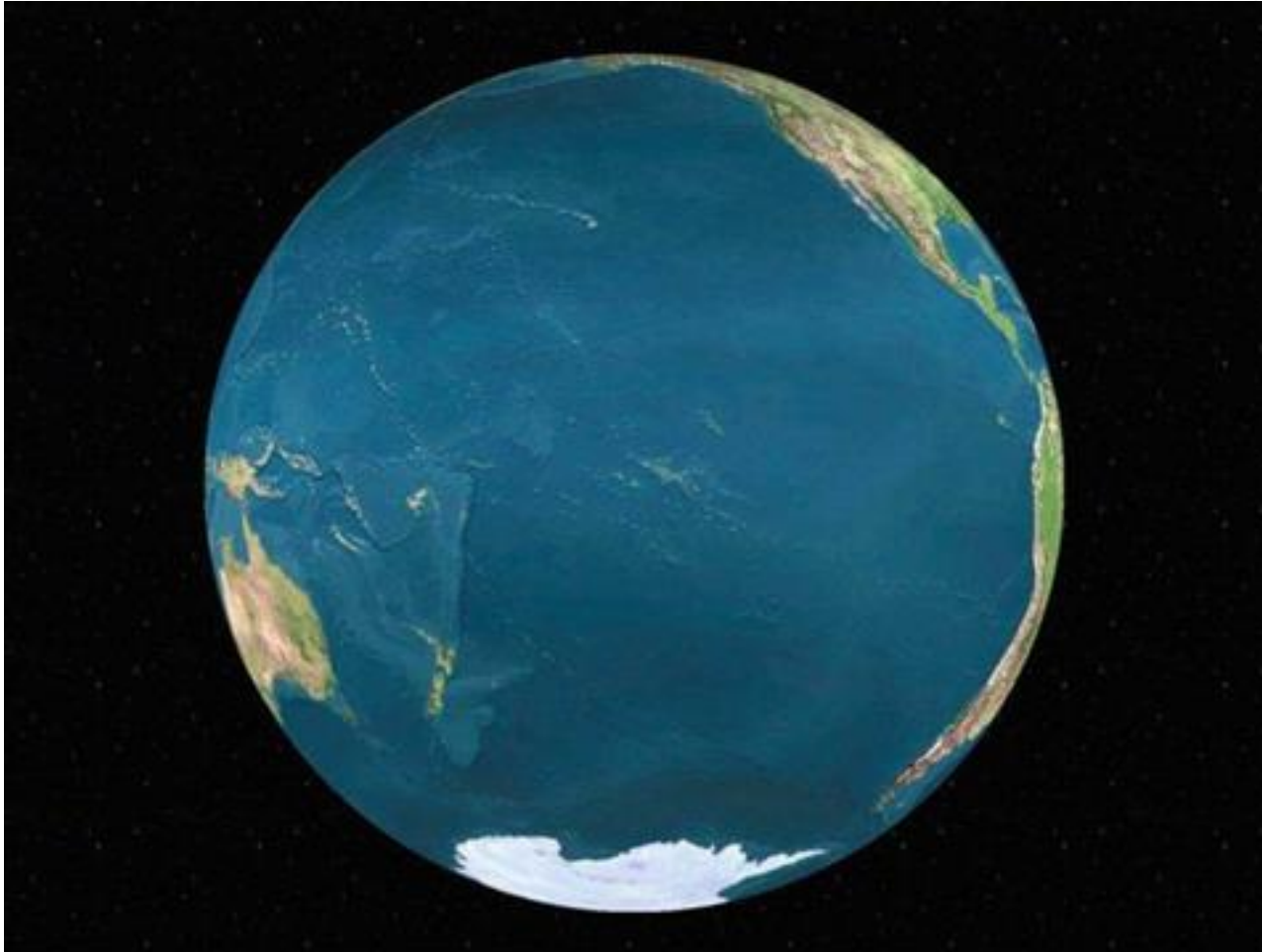


Understand the impact of climate change and design adaptation strategies



Going global: 112 M€ for joint actions with Africa and China

SC2 – Blue Growth



https://ec.europa.eu/maritimeaffairs/policy/blue_growth_en

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SC2 - Blue Growth - Oceans for the future

A huge potential for EU growth, market and jobs

- 5,4 million jobs in the EU; potential 7 million by 2020
- Gross added value € 500 billion per year
- Sectors having high potential for growth (Blue Growth agenda)
 - Aquaculture (2/3 fish production by 2030, 6,6% growth rate)
 - Marine biotechnology (yearly growth 5 to 10%)
 - Deep sea mining (global anual turnover € 5 billion/next 10 years)
 - Ocean energy (offshore wind employed 35.000 people in 2011)
 - Tourism (2,35 million employed)

[Blue Growth – Opportunities for marine and maritime sustainable growth \(COM \(2012\) 494 final\)](#)

[Blue Growth Strategy Towards more sustainable growth and jobs in the blue economy.](#)

[SWD\(2017\) 128 final. 31.3.2017](#)



CALL

Blue Growth (BG)

€ 239 million to sustainably harvest the potential of aquatic and marine resources, while protecting biodiversity and enhancing climate resilience



Improve knowledge on impact of climate change on marine ecosystems and biological resources to effectively manage their response, mitigation and resilience capacities



Preserve and sustainably exploit marine and coastal ecosystems, and biological resources to deliver improved nutrition and health

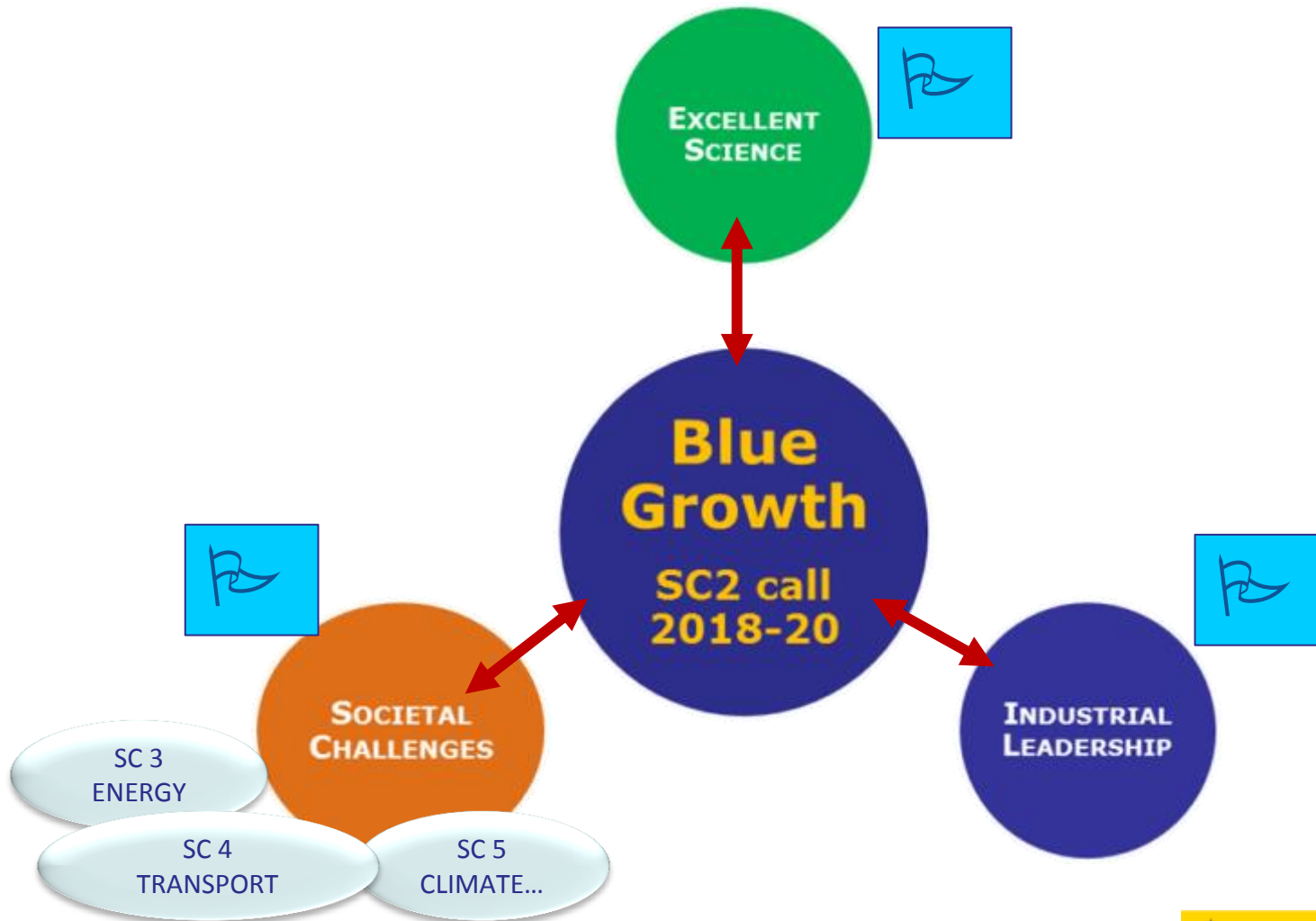
De-risk investments and boost blue innovations to develop new bio-based marine value chains and open up new markets



Develop smart and connected territories between land and sea

Strengthen international cooperation, to promote a globally sustainable blue economy

Blue Growth Flags across Horizon 2020 Work Programmes 2018-2020





CALL

Rural Renaissance

(RUR)

SC2 – WP 18-20 – Rural Renaissance

€ 263 million for rural territories to become smarter, younger, greener more circular and better connected



Invest in businesses:

125 M€ for developing small scale refineries, boosting regional bioeconomy and innovative supply chains



Invest in people:

41 M€ to boost innovation, co-creation and exploitation of knowledge by improving skills and innovation systems



Invest in policies fit for the future:

60 M€ to modernize policies to favour generation renewal and greater resilience and public goods delivery

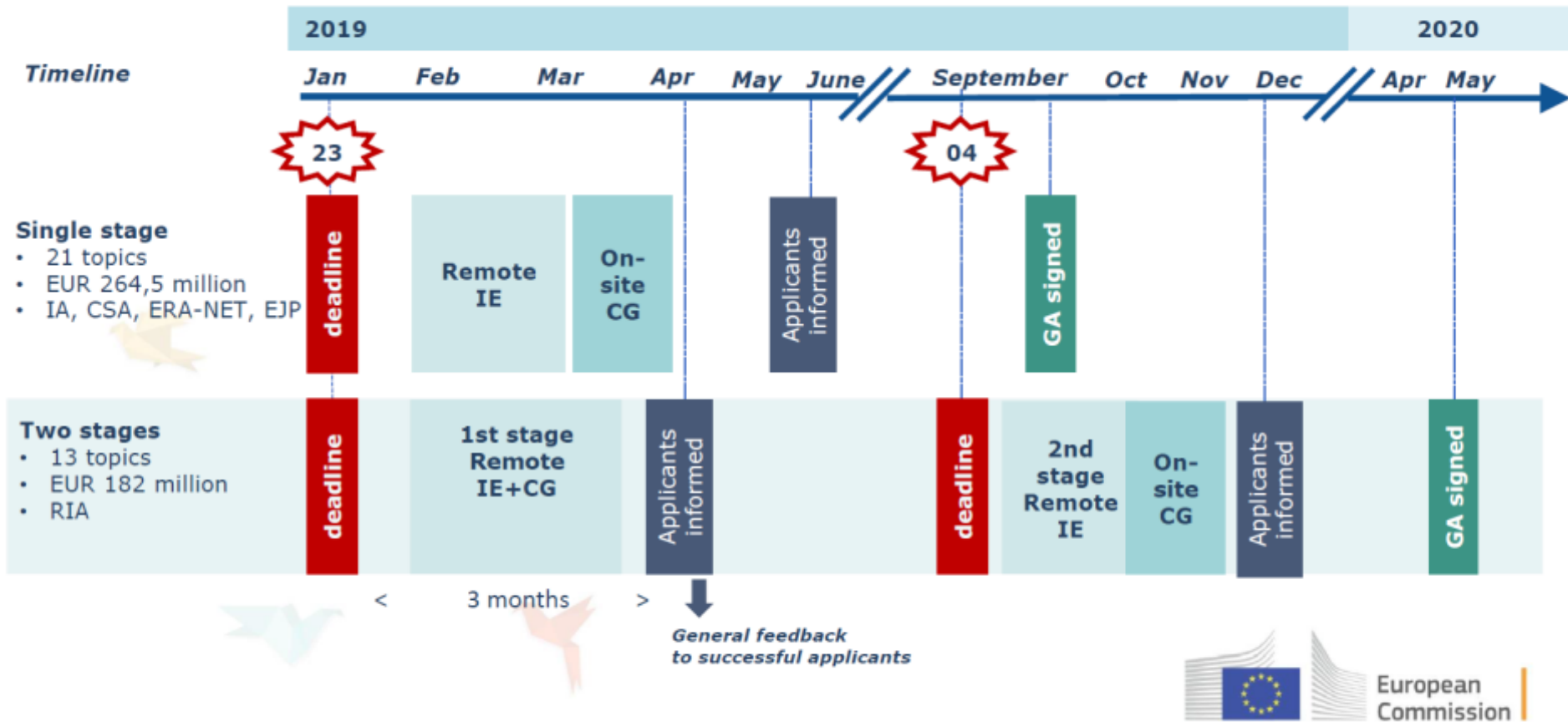


Go digital:

37 M€ to take make the promises of the digital revolution come true for farmers and rural people

Calls 2019 – Schedule

Schedule 2019



IE = Individual Evaluation; CG = Consensus Group; GA = Grant Agreement

WP2020 - Calendar

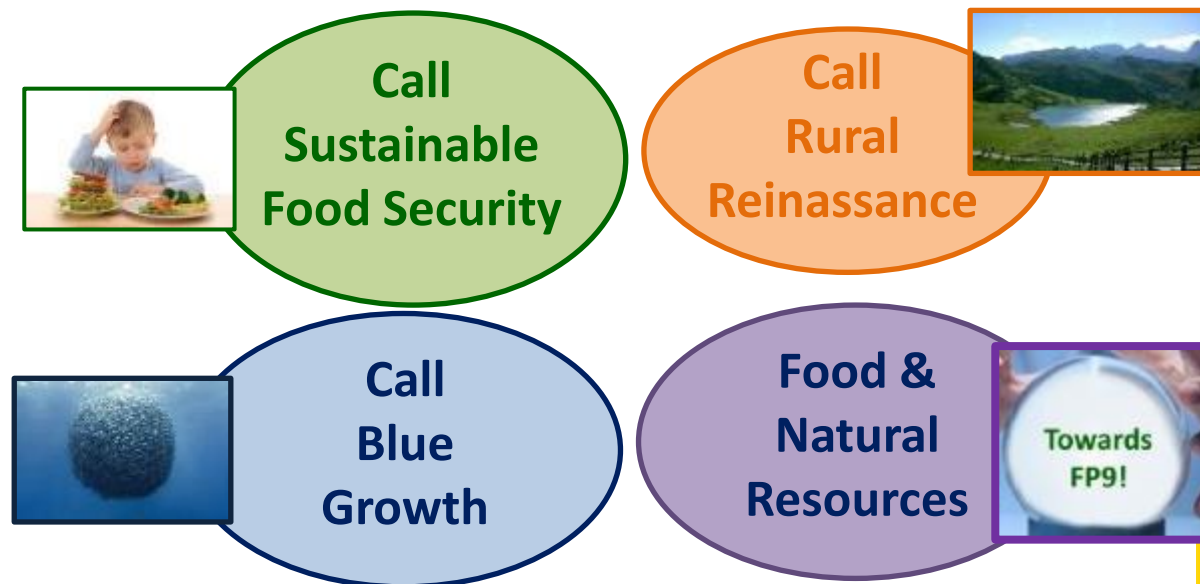
Adoption of WP2020 - End of June 2019– prepublication??

Brokerage event – 3 July 2019 organized by Biohorizon, in Brussels.

Infoday Societal Challenge 2 – Calls 2020 – 4th July. Organized by DG RTD, DG AGRI & REA. Brussels
<https://ec.europa.eu/programmes/horizon2020/en/news/horizon-2020-info-day-societal-challenge-2-calls-proposals-2020>

Opening: 15 October 2019

Deadlines: 1st stage: 22 January 2020; 2nd Stage: 8 September 2020



Some examples - SC2 PROJECTS.

31 Partners
48 months (2015-2019)
Coordinator: DTU (DK)
5mio€



DiscardLess

Strategies for the gradual elimination of discards in European fisheries

AZTI
IEO
BARNA S.A.
SIMRAD SPAIN SLU

<http://www.discardless.eu/video/entry/discardless-2019>



16 Partners
36 months (2015-2018)
Coordinator: CSIC (ES)
4,4 mio€



CSIC
ASOC. PROD. TOMATE
MERIDIEM SEEDS S.L.
UPV

<https://www.youtube.com/watch?v=04DsHu1GsPs>



Optimising and Enhancing the Integrated
Atlantic Ocean Observing Systems

EU Horizon 2020 project
A large scale EU Horizon 2020 research and innovation project contributing to the Trans-Atlantic Research Alliance and GEO.

62 Partners, 18 Countries
International integration of Atlantic ocean observing activities – further supporters / members are welcome.

Coordina DE; 20,6 mio€; 51 months (2015-2019); CSIC, IEO, PLOCAN

<https://www.atlantos-h2020.eu/>

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EIP-AGRI



The Europe 2020 Flagship Initiative “Innovation Union” specifies European Innovation Partnerships (EIP) as a **new tool for speeding up innovation** through linking existing policies and instruments.



EIP “Agricultural Productivity and Sustainability” (COM(2012)79): Fostering a competitive and sustainable agriculture and forestry sector that “achieves more from less”: **promoting synergies between CAP RD and H2020 policies**

- **EIPs** will **not** act as a **new instrument** or programme
- **EIPs** do **not have** any **funding** attached to them, **BUT...**

[Strategic Implementation Plan](#) (13 Feb. 2014 (OR. en) 6301/14 AGRI 86)

- via H2020 - SC2 – WPs (multiactor approach & thematic networks)
- via Rural Development Programmes

[Guidelines on Programming for Innovation and the Implementation of the EIP AGRI](#) EC- DG AGRI & RD, updated version December 2014



The EIP-AGRI is part of EU's growth strategy for this decade <http://ec.europa.eu/agriculture/eip>

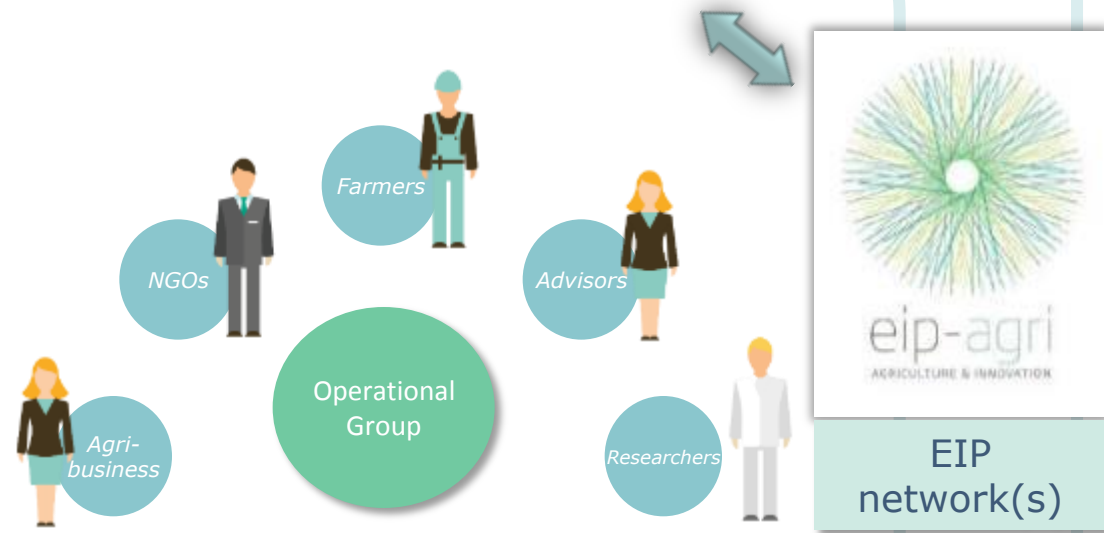
CAP Rural Development.....EIP AGRI.....H2020

CAP /Rural development
(regional/national level)



(European projects)

- Research projects
- Multi-actor projects and thematic networks (interactive innovation)



Funding for:

OG preparation

OG projects

Innovation support services



OPERATIONAL GROUP

Involvement of OGs is strongly recommended

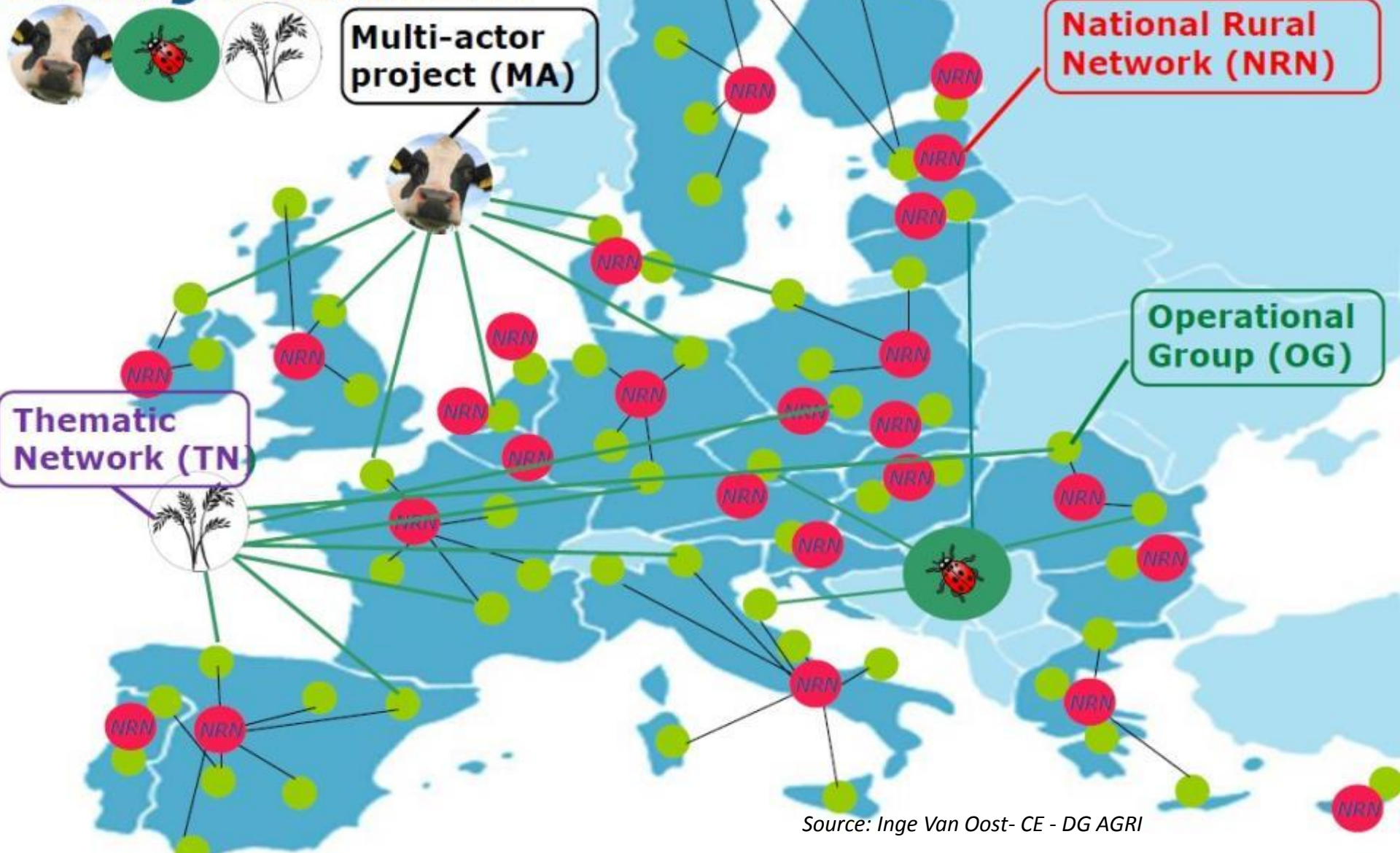
Spread the results

Unique EU knowledge repository of contacts and practice abstracts

CDTI Centro pa

An EU wide EIP network, supported under Rural development policy

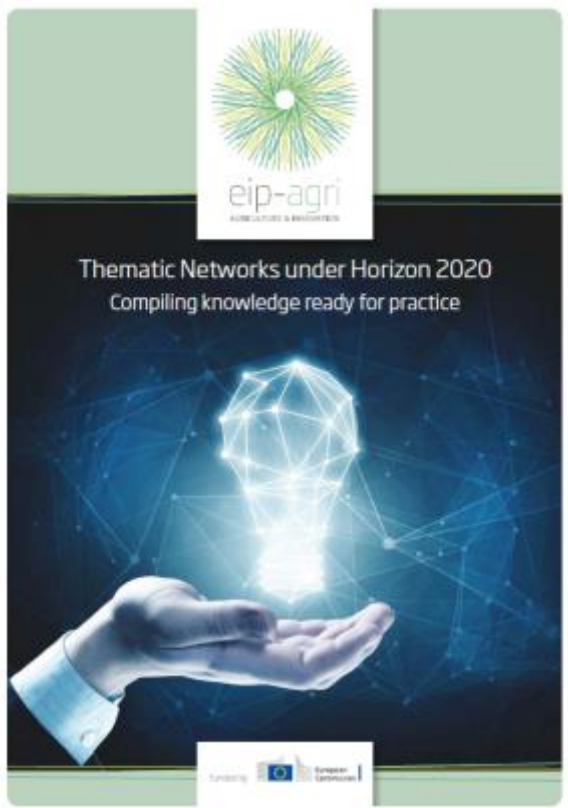
Linking with H2020



The multi-actor approach under WP2018-2020 : Key elements

- Rationale and requirements now in **WP introduction p. 8-9.**
- Multi-actor approach aims to make innovation more demand driven.
- Ensure involvement of various actors along the project.
- Genuine and sufficient involvement of various actors all along the project and in the consortium, from planning to demonstration.
- Complementary type of knowledge (scientific and practical)
- Demonstrate how project will respond to end-users needs.
- Substantial practical knowledge easily accessible and understandable.
- Contribution to EIP-AGRI (for EIP-AGRI related areas)
 - Practice abstracts respecting the common EIP format.
 - Strong recommendation to connect with Operational Groups (RDP).

H2020 Multi-actor projects & Thematic Networks



<https://ec.europa.eu/eip/agriculture/en/publications/eip-agri-brochure-horizon-2020-multi-actor>

https://ec.europa.eu/eip/agriculture/sites/agri-eip/files/eip-agri_brochure_thematic_networks_2016_en_web.pdf

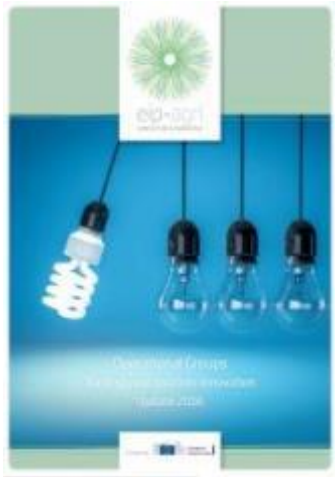
Common format for practitioners ('practice abstract')

info shared through the EIP network

Possibly 100 EIP practice abstracts.

- Short and easily understandable title (**one key sentence**, max 150 characters)
- **Short summary** in easily understandable language (max 1500 characters):
 - What **problem** will the knowledge generated solve for the end-user? What will be the main **benefits to the practitioner**?
 - **Main outcome/recommendation** (2-3 main results)
- **Contact data**: Project coordinator (+ address, e-mail, telephone), text editor, project partners (+ address, e-mail, telephone), geographical location, project period, funding source & budget, link to project website and to a website where info stays long-term available.

Operational Groups – Rural Development Programmes



- The EIP implementation via rural development programmes aims at a flexible and open system for the creation of a multiplicity of Operational Groups (OGs)
- 98 MS/regions will be implementing the EIP in their 2014-2020 Rural Development programmes with regular calls for Operational Group projects during this period
- 3300 planned OGs in 2014-2020. 1000 already running.

<http://ec.europa.eu/eip/agriculture/en/content/links-existing-operational-groups?stakeholder=3394>

Source: DG AGRI

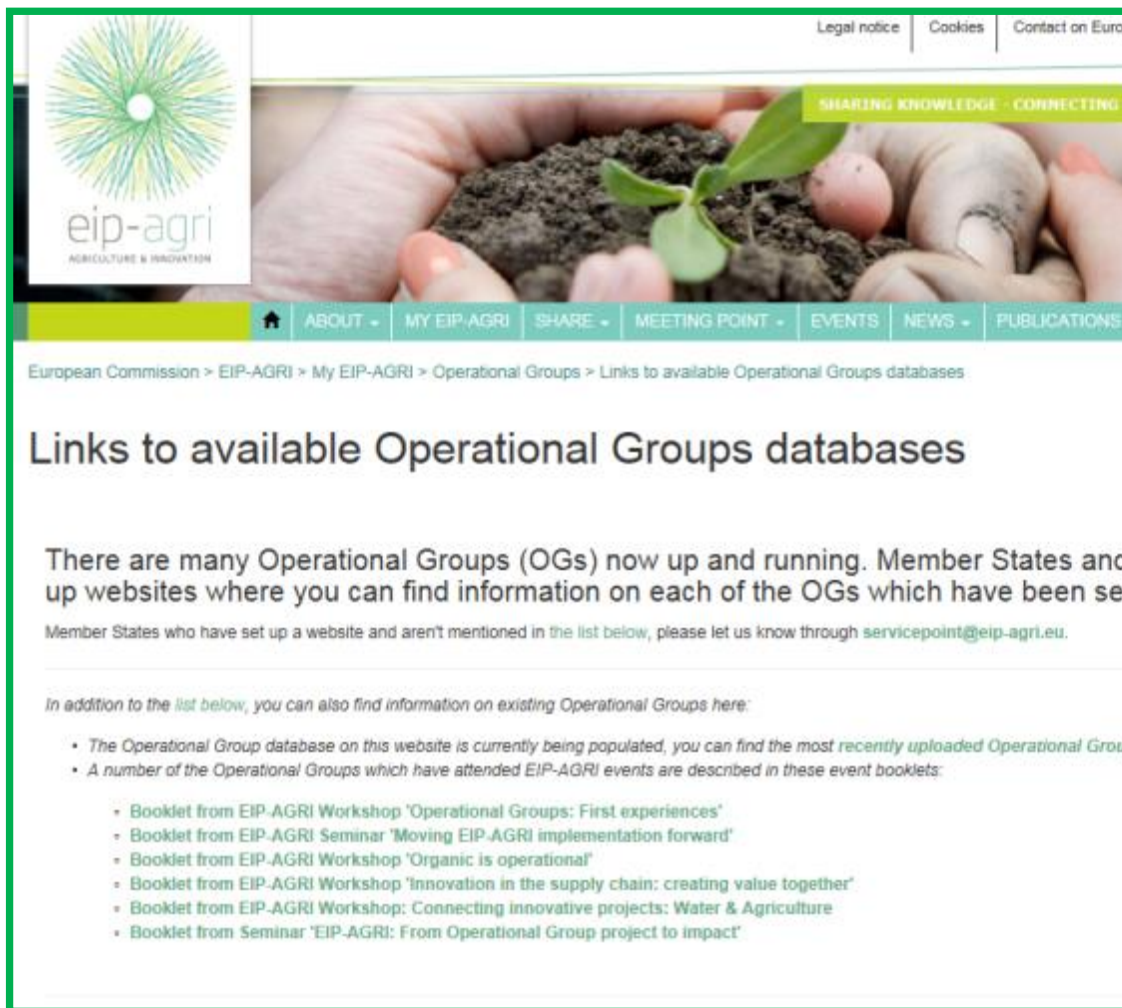
Number of planned EIP Operational Groups in the 2014-20 Rural Development Plans*. (update November 2018)



* For FR, DE, IT, PT, ES, UK: the number of OGs represents the sum of regional RDPs

Source: DG-AGRI

<http://ec.europa.eu/eip/agriculture/en/content/links-existing-operational-groups?stakeholder=3394>



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SHARING KNOWLEDGE - CONNECTING PEOPLE

eip-agri
AGRICULTURE & INNOVATION

HOME ABOUT MY EIP-AGRI SHARE MEETING POINT EVENTS NEWS PUBLICATIONS

European Commission > EIP-AGRI > My EIP-AGRI > Operational Groups > Links to available Operational Groups databases

Links to available Operational Groups databases

There are many Operational Groups (OGs) now up and running. Member States and up websites where you can find information on each of the OGs which have been selected by Member States who have set up a website and aren't mentioned in the list below, please let us know through servicepoint@eip-agri.eu.

In addition to the list below, you can also find information on existing Operational Groups here:

- The Operational Group database on this website is currently being populated, you can find the most recently uploaded Operational Group
- A number of the Operational Groups which have attended EIP-AGRI events are described in these event booklets:
 - Booklet from EIP-AGRI Workshop 'Operational Groups: First experiences'
 - Booklet from EIP-AGRI Seminar 'Moving EIP-AGRI implementation forward'
 - Booklet from EIP-AGRI Workshop 'Organic is operational'
 - Booklet from EIP-AGRI Workshop 'Innovation in the supply chain: creating value together'
 - Booklet from EIP-AGRI Workshop: Connecting innovative projects: Water & Agriculture
 - Booklet from Seminar 'EIP-AGRI: From Operational Group project to impact'

Austria

- National

Belgium

- Flanders

Finland

- National

(You can filter the Operational Group by country)

France

- National

Ireland

- National

Italy

- Emilia Romagna

Germany

- National
- Schleswig-Holstein
- Hessen
- Mecklenburg-Vorpommern
- Sachsen
- Thüringen
- Rheinland-Pfalz

Portugal

- National

Spain

- National 2017
- National 2018
- Andalusia
- Aragon
- Asturias
- Basque Country
- Canary islands
- Cantabria
- Catalonia
- Extremadura
- Galicia
- La Rioja
- Madrid
- Murcia

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Research & Innovation Initiatives



Partnerships for the development of the European Research Area (ERA).
From partnerships among public agencies to alliances between the public and private sectors.

Objectives: avoid fragmentation in the R&I landscape, avoid duplication of efforts, address economic crisis, competitiveness and innovation.

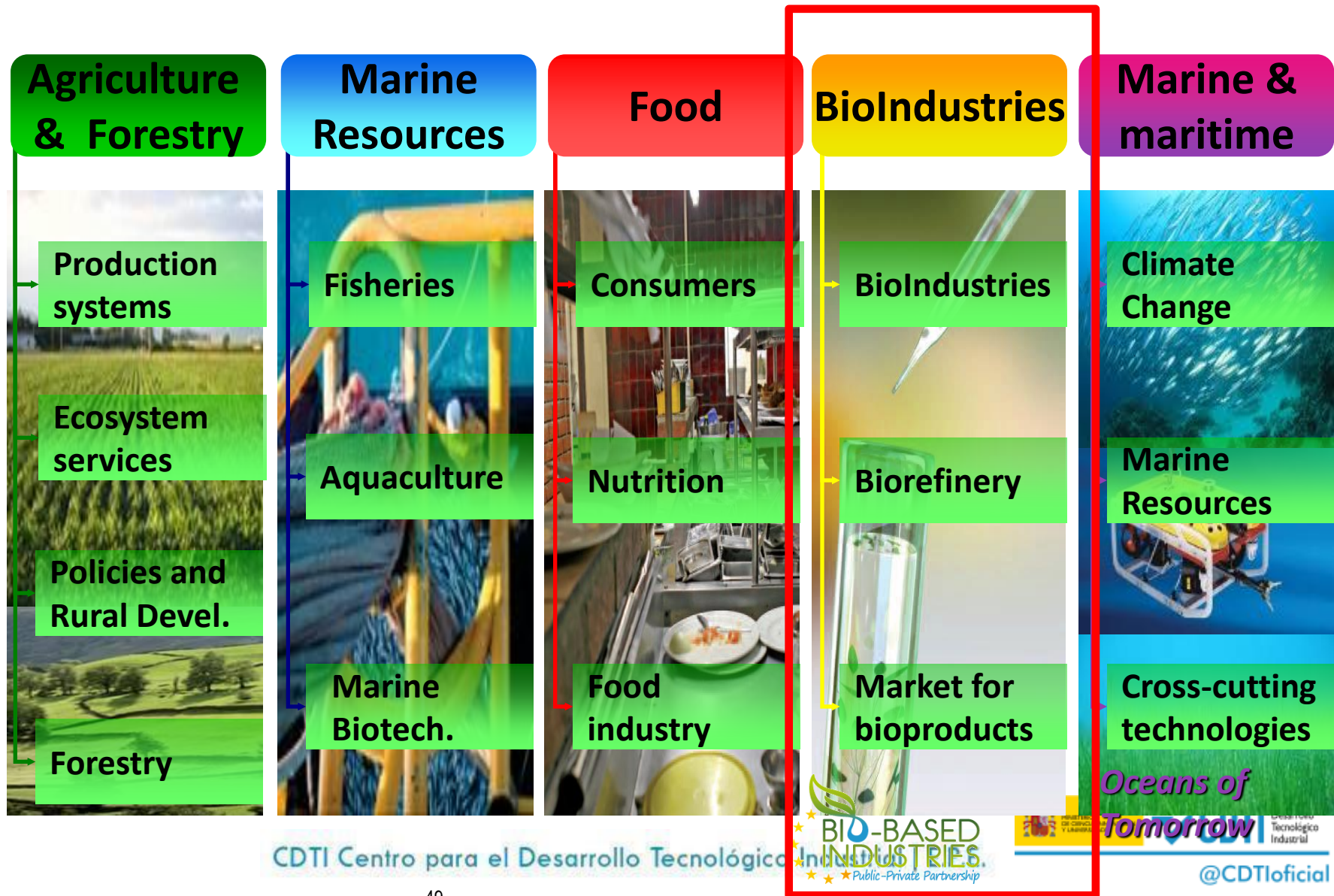
1.- Public-Public Partnerships (P2P):

- Joint Programming Initiatives (JPIs).
JTI Oceans, JPI FACCE, JPI HDHL
- Art. 185 initiatives - **PRIMA**
- **ERA-NETs**,
- European Joint Programmes (**EJPs**).

2.- Public-Private Partnerships (PPP),

- Joint Technology Initiatives (JTIs)
JTI Biobased industries (JTI-BBI)
- Public Private Partnerships (cPPP)





JTI on Biobased Industries. What is BBI about?

What is the Bio-based Industries Initiative?

http://www.youtube.com/watch?v=kym3mIYo_30

- A Public-Private Partnership between the **Bio-based Industries Consortium** and the **EU**
- A **joint** commitment of 3.7 billion € over 2014-2020
- [Annual Work Plan 2019](#)



Biobased Industries Consortium

=



<http://biconsortium.eu>

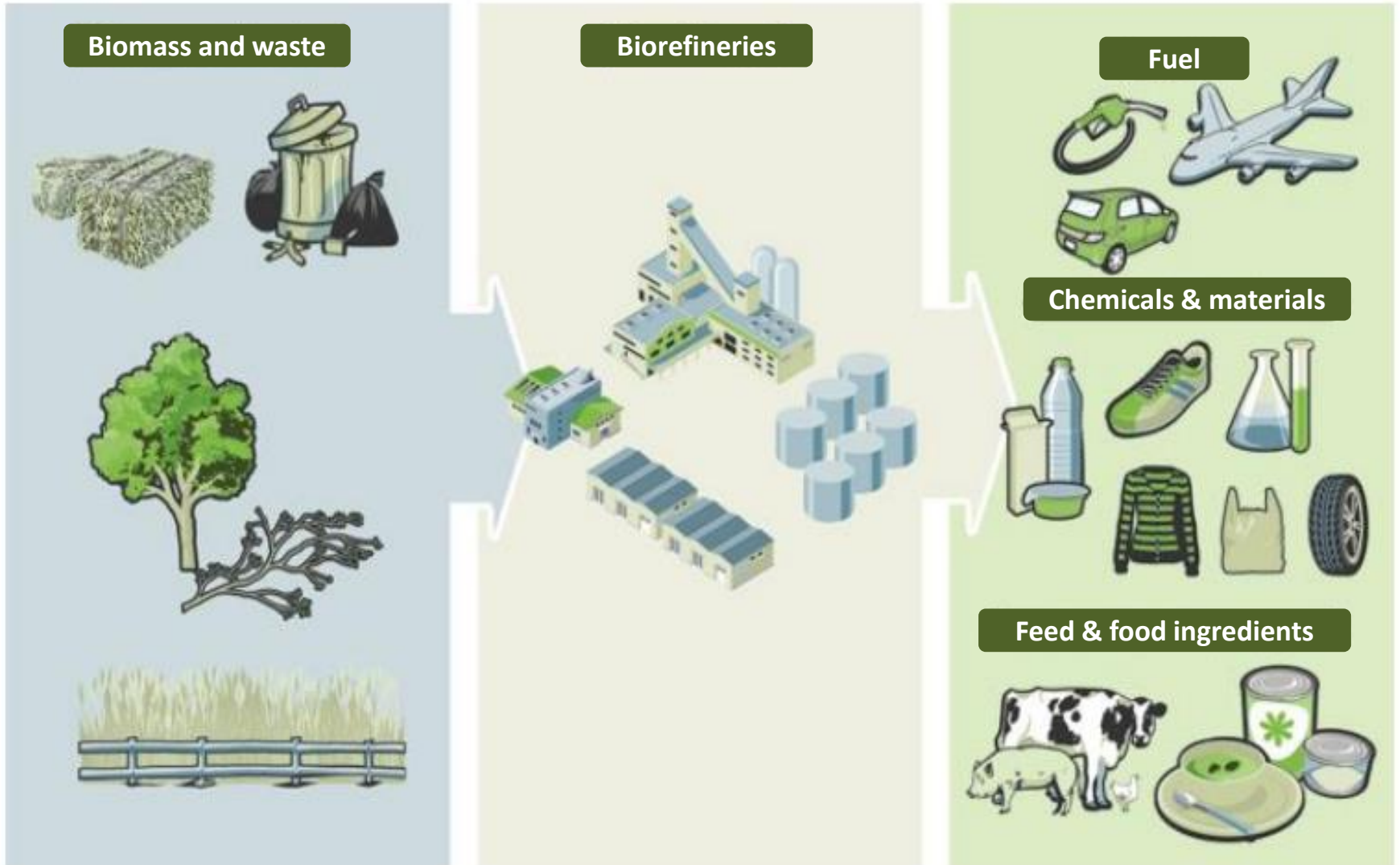
<http://www.bbi-europe.eu>

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Centro para el Desarrollo Tecnológico Industrial

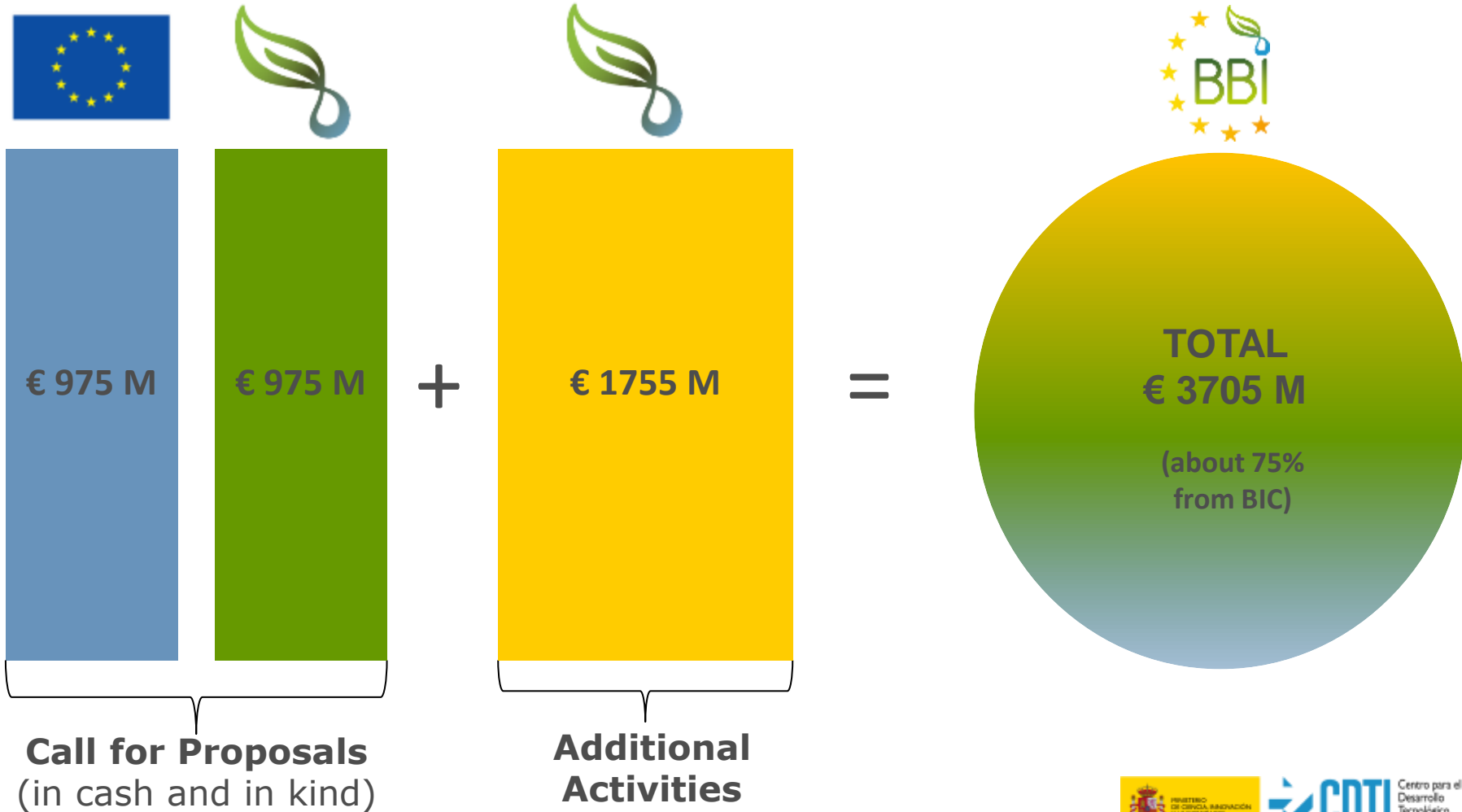
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JTI BBI. From feedstock to bio-based products



JOINT TECHNOLOGY INITIATIVE ON BIOBASED INDUSTRIES

Budget



JTI – BBI - Strategic Innovation & Research Agenda (March 2013)

- **VC 1: From lignocellulosic feedstock**
- **VC 2: Forest-based value chains**
- **VC 3: Agro-based value chains**
- **VC 4: Value chains from (organic) waste**
- **VC 5: Integrated energy, pulp and chemicals biorefineries**



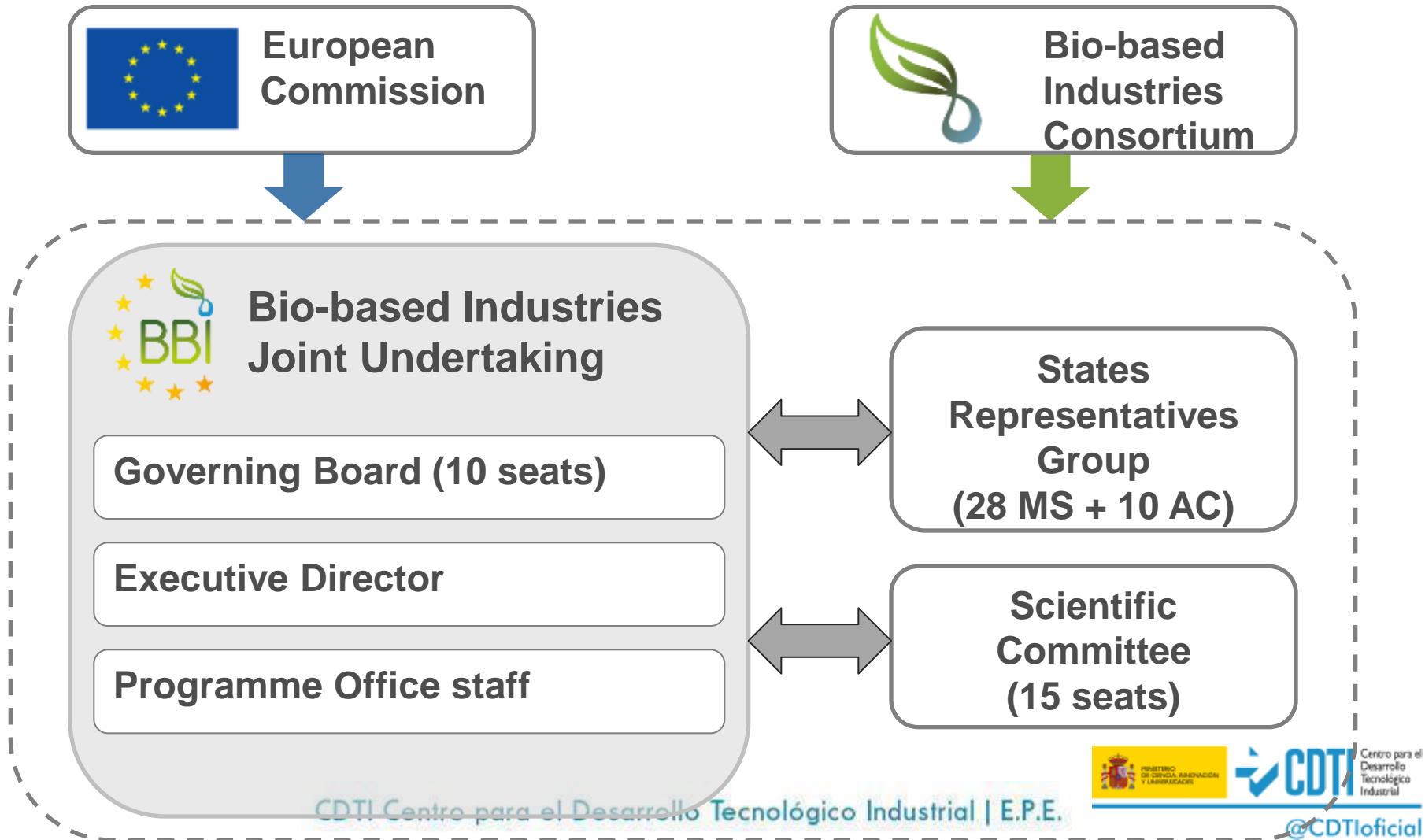
4 Strategic orientations of the bio-based industry focused on the steps of a value chain



SO1 Biomass feedstock

- **Agri-based**
- **Forest**
- **Aquatic**
- **Biowaste and CO2**

JTI – BBI - Governance



BIC Membership - A fruitful investment

	BIC Members /Associated Member	Votes	Annual Fee (Euros/year)
BIC	Industry	6	30.000
BIC	SME	1	5.000
BIC	Cluster (representing SMEs)	1	5.000
AM	Associated Member		1.000



<http://sbioc.com>

Biobased Industries Consortium

- 92 Full members

<http://biconsortium.eu/membership/full-members>

- 18 SMEs Clusters (122 SMEs)

<http://biconsortium.eu/membership/full-members/smes-clusters>

- Associate Members

<http://biconsortium.eu/membership/associate-members>



ustrial | E.P.E.



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BIC Membership - A fruitful investment

- **Main tasks:**
 - Define the BBI's **SIRA**
 - Lead BBI **Annual Work Plans** and Calls
 - **Mobilise industry** (large, SMEs, Clusters) & **RTOs**

- RESEARCH & INNOVATION ACTIONS:

Up to TRL 5.

Budget: **2-5 M€**

30,00%

- INNOVATION ACTIONS. DEMONSTRATION PROJECTS:

TRL 6-7.

Budget: **7-10 M€ + Additional activities**

30,00%

- INNOVATION ACTIONS. FLAGSHIP PROJECTS:

TRL 8.

Budget: **21-35 M€ + Additional activities**

34,75%

- CSA.

Budget: **up to 1 M€**

3,5%

JTI BBI. Type of actions. Funding rates.

Participant	RIA	IA	CSA
Large Industries	0%	70%	0%
SMEs	100%	70%	100%
Non profit, legal entities (Universities, RTOs, NGOs etc.)	100%	100%	100%

JTI BBI. Call 2019 information and events.



Annual Work Plan 2019 – **Approved in December 2018**

Available budget: 135 M€.

Call opening: 4 April 2019.

Call closure: 4 September 2019.

Proposal evaluations (*indicative*): October – November 2019

Results sent to applicants (*indicative*): December 2019

Coming Events

[Infoday JTI-BBI in Brussels.](#) (12.04.2019)

[BBI JU Partnering Platform](#) Hasta el 11 de abril.

Infoday JTI-BBI in Madrid (CDTI). (22.05.2019)

CDTI Centro para el Desarrollo Tecnológico Industrial | E.P.E.



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- Results - H2020 SC2 (2014-2017)
- Toward FP9

www.cdti.es

www.prima-med.org



Partnership for **R**esearch and **I**nnovation in the
Mediterranean **A**rea

PRIMA a new program under Article 185

Research and Innovation initiative to develop and implement innovative solutions for the **sustainable food production and the efficient management of hydric resources (availability and water demand)** in the Mediterranean area.



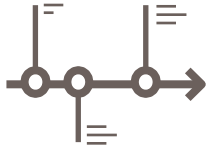
The graphic features a map of the Mediterranean region in shades of red and orange. On the left, there is a European Commission logo and the text '#PRIMA_EU' and '#OpenToTheWorld'. On the right, a man in a suit and glasses stands with his arms crossed. Text to the left of the man reads: 'PRIMA is recognisably the greatest achievement to date in Euro-Med cooperation in research and innovation. It will seek to ensure that two of people's most basic needs are met: access to clean water and nutritious food.' Below this, it says 'Commissioner for Science, Research and Innovation Carlos Moedas'.

Current Budget: €494 million (in 10 years)

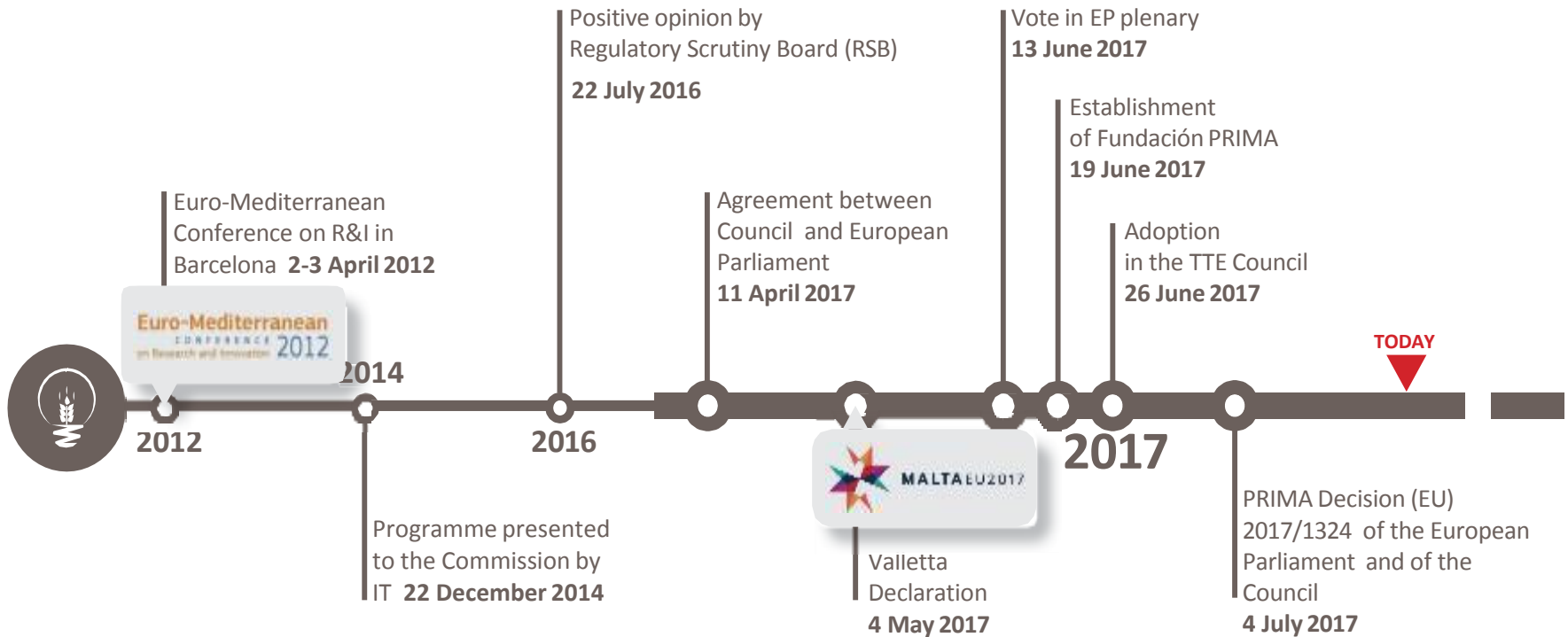
€220 million EU contribution

€274 million PS contributions

(+ PS in-kind contributions: €121,5 million)



Timeline of PRIMA



-Fuente.- Fundación PRIMA-

Who can participate?

At least 3 countries:

- At least 1 EU country
- And 1 country bordering the Mediterranean Sea

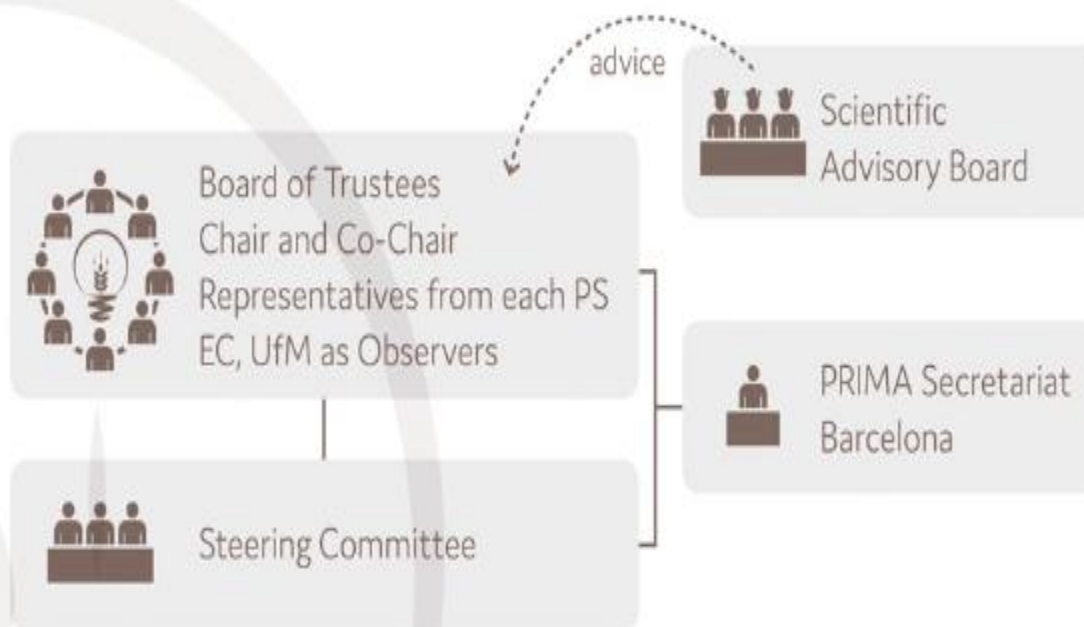
19 countries

11 EU countries: Cyprus, Croatia, France, Germany, Greece, Italy, Luxemburg, Malta, Portugal, Slovenia and Spain

8 Non-EU countries: Algeria, Egypt, Jordan, Israel, Lebanon, Morocco, Tunisia, Turkey



Governance



PRIMA operates as an independent legal private entity



since 19 June 2017
Foundation under Spanish law



19 PSs members
of Foundation



Financial contribution
€ 274,000 PSs
€ 220.000 EU

PRIMA Strategic Research and Innovation Agenda



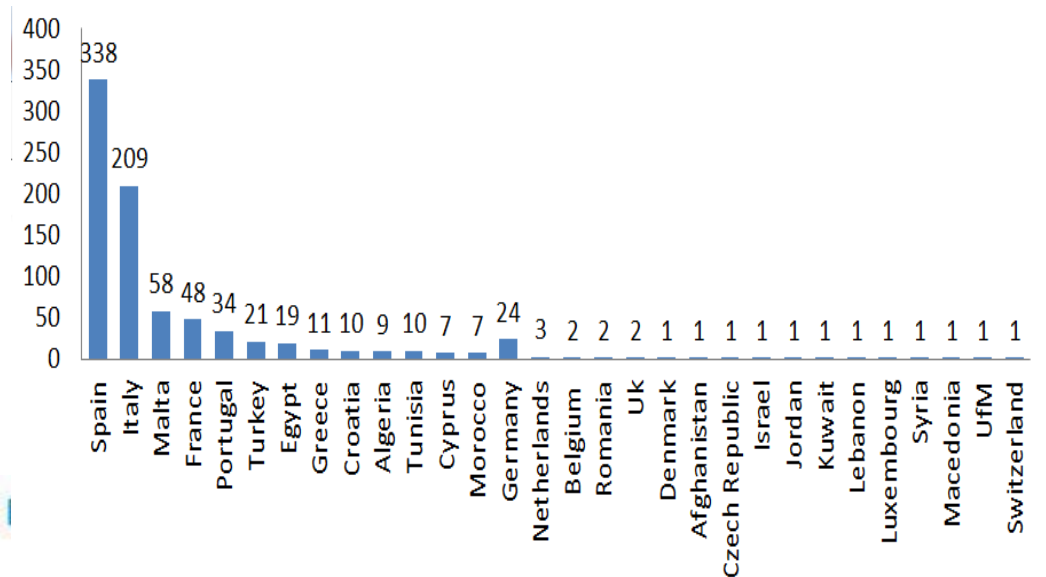
April 2017

PRIMA
Strategic Research and Innovation Agenda

CDTI Centro para el I

The PRIMA SRIA is the output of **collection of inputs** coming from a wide range of sources, analysis, workshops, stakeholder events involving experts and multiple stakeholders coming from all sectors of society.

An **on-line public consultation** was also carried out during May and June 2017 and a total 861 replies were received from 28 countries. The **SRIA will guide all the actors** involved in PRIMA towards the **implementation of the Initiative**.



Global and Mediterranean Area Challenges



 **OBJETIVOS DE DESARROLLO SOSTENIBLE**



1. Climate Change
2. Population growth and food security
3. Water scarcity and overexploitation of natural resources
4. Sustainable Agriculture
5. Agro-biodiversity loss
6. Reinforcing Mediterranean lifestyle: diet, physical activity, socio-cultural
7. Mediterranean agro-food value chains.

General goals and specific objectives

General goals

Build research and innovation capacities and to develop knowledge and common innovative solutions for agro-food systems, to make them sustainable, and for integrated water provision and management in the Mediterranean area, to make those systems and that provision and management more climate resilient, efficient, cost-effective and environmentally and socially sustainable, and to contribute to solving water scarcity, food security, nutrition, health, well-being and migration problems upstream.

Specific objectives:

- **ALIGNMENT OF NATIONAL R&I PROGRAMMES**

towards the implementation of the strategic agenda.

- **CRITICAL MASS OF ACTORS AND RESOURCES**

Involvement of all relevant public and private sector actors in implementing the strategic agenda by pooling knowledge and financial resources to achieve the necessary critical mass.

- **STRENGTHENING R&I CAPACITIES**

Strengthening of the research and innovation funding capacities and of the implementation capabilities of all actors.

PRIMA SRIA - 3 Thematic areas

The Strategic Research and Innovation Agenda aims to set the technical and scientific basis for developing knowledge and common innovative solutions for water management and agro-food systems in the Mediterranean basin.

Three thematic areas are identified in this framework:



MANAGEMENT OF WATER

Integrated and sustainable management of water for arid and semi-arid Mediterranean areas



FARMING SYSTEMS

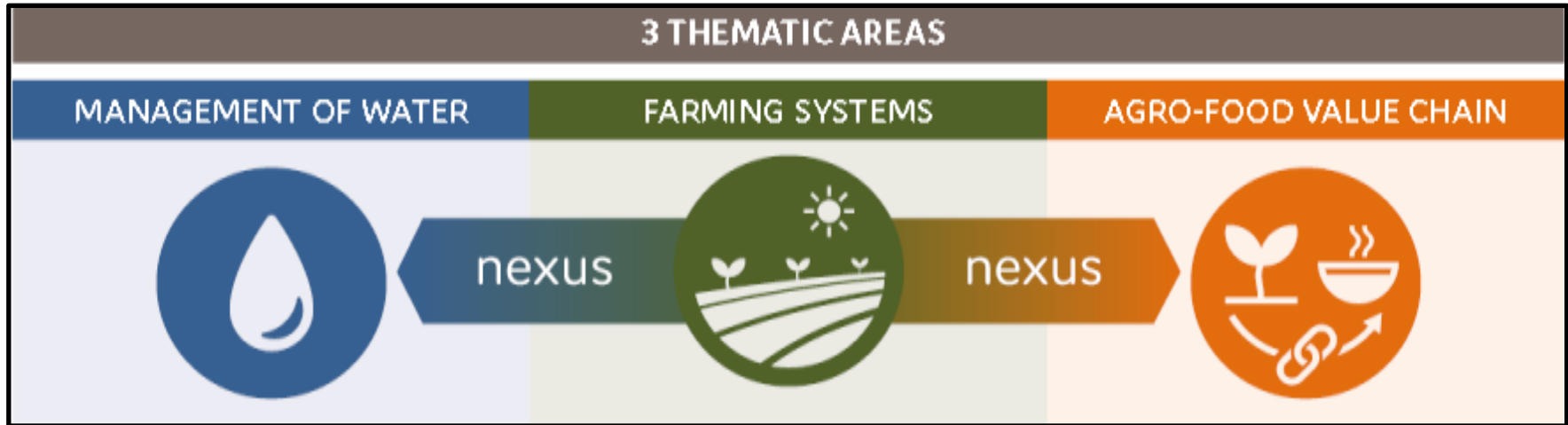
Sustainable farming systems under Mediterranean environmental constraints



AGRO-FOOD VALUE CHAIN

Sustainable Mediterranean agro-food value chain for regional and local development

Cross cutting themes and activities



Cross-cutting themes



SOIL
SUSTAINABILITY

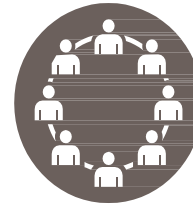


FOOD
SECURITY

Cross-cutting technologies and approaches



DIGITAL
REVOLUTION



SOCIO-ECONOMIC
RESEARCH
AND STAKEHOLDERS
INVOLVEMENT

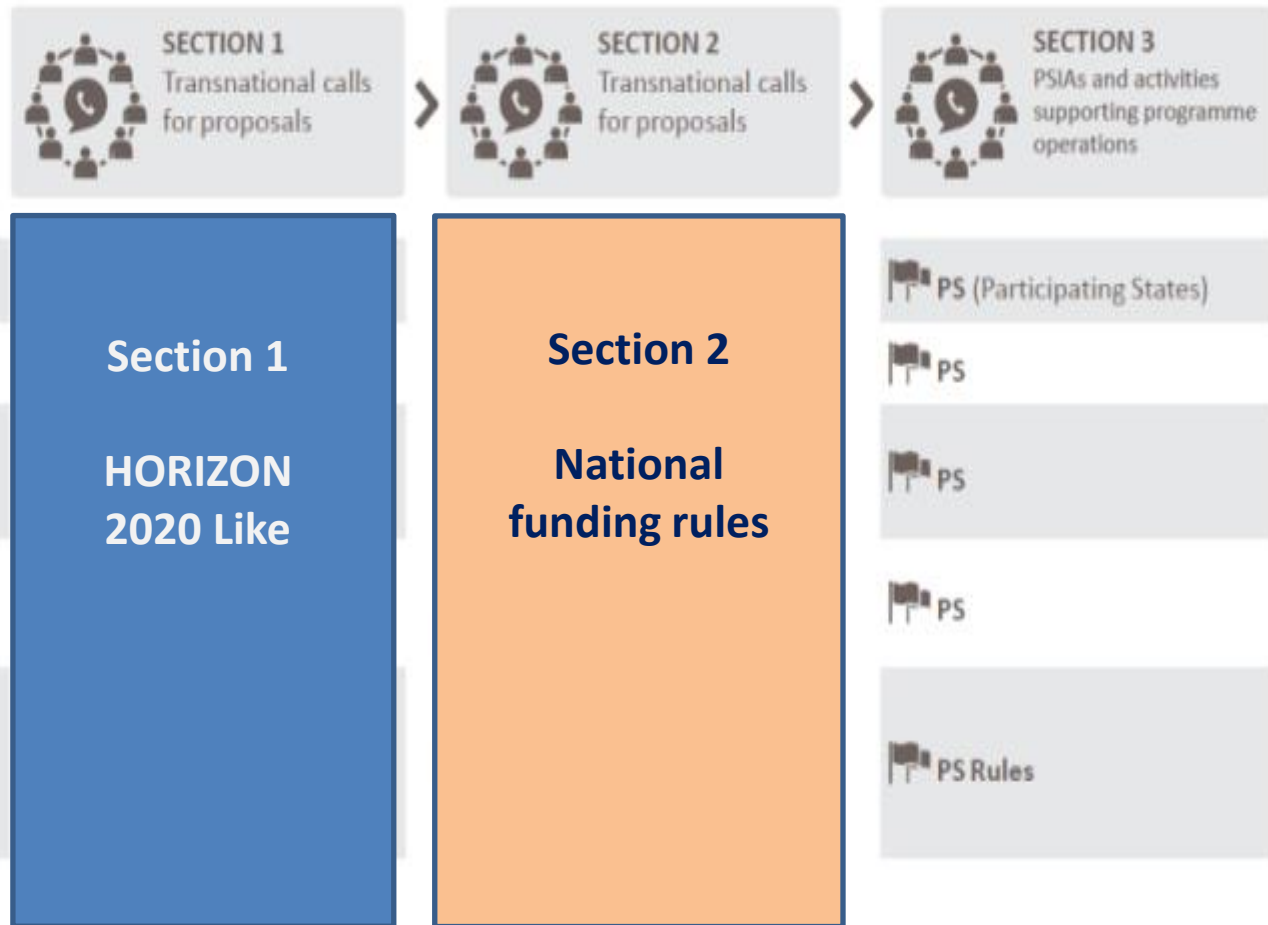


CAPACITY
BUILDING

PRIMA Programme structure



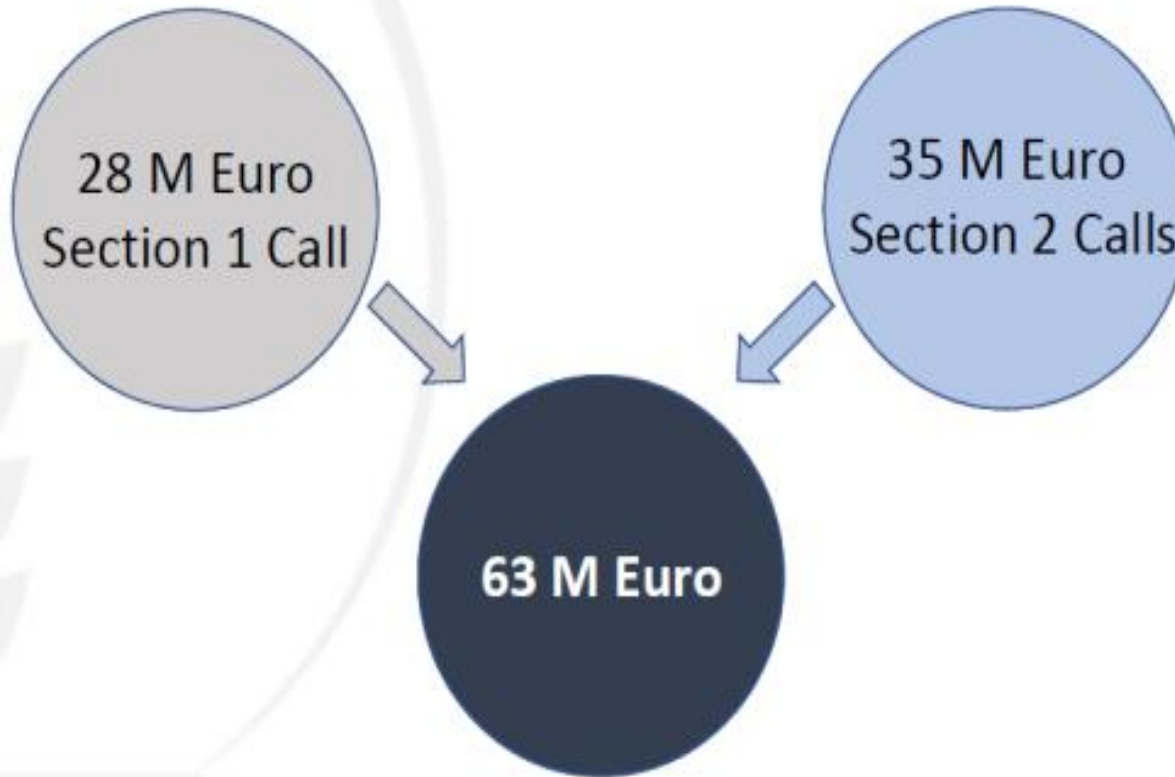
PRIMA programme structure



Calls 2019 - Budget



Total Budget for 2019 Calls



Source: PRIMA AWP2019 Infoday, Barcelona 4 December 2018

Indicative PRIMA Call 2019 Content

Section 1, four Calls

THEMATIC AREAS

-  1. Thematic area water management
-  2. Thematic area farming system
-  3. Thematic area food value chain
- 4. Thematic area Nexus



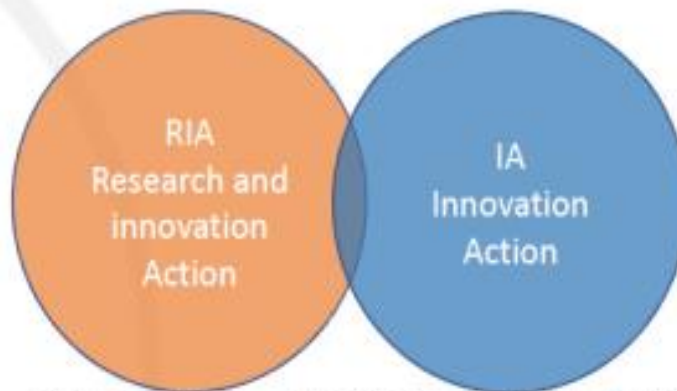
Section 2, a single multi-topic Call

THEMATIC AREA:

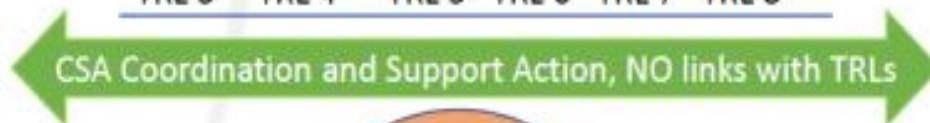
Agro-Food value chain, Farming systems, Management of water

Source: PRIMA AWP2019 Infoday, Barcelona 4 December 2018

Type of Actions



TRL 3 | TRL 4 | TRL 5 | TRL 6 | TRL 7 | TRL 8



* Analogous to RIA, According to National Regulations

Annual Work Plan 2019 - SECTION 1 ("H2020 like")



Section 1

4 calls

28 mio €

Type of action: RIA, IA, CSA

Funding level: According to H2020 rules. (100% in RIA and CSA; in IA 70% except for non profit legal entities 100%)

Project duration: max 36 -48 months.

Submission and evaluation procedure: 2 stages or Single Stage.

- 1st Stage– 10 pages proposal
- 2nd Stage – Successful applicants in 1st Stage.(RIA/IA - 50 pages, CSA-30 pages)

H2020 award criteria.

PRIMA Grant Agreement GA (multi-beneficiary) based on H2020 MGA.

Conclusion of a Consortium Agreement prior to the conclusion of the PRIMA GA

Call publication: 17/12/2018

Submission deadline 1st Stage: 28/02/2019

Submission deadline 2nd Stage: 16/07/2019

Annual Work Plan 2019 - SECTION 2



Section 2

1 call

3 areas

6 topics

34,9 M€

Type of action: RIA.

Budget: 34,9M€

Funding level: Depending on National Regulations.

Expected number of grants: 35.

Additional eligibility conditions: see standard conditions and national regulations for each country.

Submission and evaluation procedure: 2 stages

1st Stage– 10 pages proposal

2nd Stage – Successful applicants in 1st Stage - 50 pages.

Submission and evaluation procedure as indicated in the call

Grant agreement: Each national funding body will fund the beneficiaries established in its own country (national rules).

Consortium Agreement: Some national Funding bodies may require this document before signing the GA.

Call publication: 17/12/2018 ;

Submission deadline 1st Stage: 21/02/2019; Submission deadline 2nd Stage: 04/09/2019



NATIONAL REGULATIONS 2019

PRIMA CALL SECTION 2



- ✓ **Financiación descentralizada**
- ✓ **Cada país financia a sus participantes**
- ✓ **En España:**

AEI-MICIU

Universidades, OPIs, Centros Tecnológicos, Organizaciones privadas de I+D sin ánimo de lucro

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CDTI

Financiación Empresas (Universidades, OPIS, Centros I+D como subcontratados)


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Evaluation rules and Award Criteria

Proposals will be evaluated by experts on the basis of the Award Criteria: **Excellence, Impact and Implementation.**

Scores: 0 to 5, where 0 is weak, 1 poor, 2 fair, 3 good, 4 very good and 5 excellent.

Proposal scoring



1st stage

Criteria	Threshold
Excellence	4
Impact	4
Implementation	n/a
TOTAL	dynamic

new
Closest to 3 times (but at least 2,5 times) the available budget invited to the 2nd stage

Single / 2nd stage

Criteria	Threshold	IA factor (ranking)
Excellence	3	n/a
Impact	3	x 1,5
Implementation	3	n/a
TOTAL	10	n/a

The threshold is expected to be set at 8 or 8,5

El desempate - Proposals with identical scores

- Their score for Excellence (RIA)
- Their score for Impact (RIA)
- **Their score for Impact (IA)**
- **Their score for Excellence (IA)**
- **Number of MPCs partners involved!!!**
- **SMEs (absolute budget)**
- **Gender balance (personnel)**
- *Synergies, contribution to the call or H2020,...*



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National Contact Points (NCPs)

CDTI-Centro Desarrollo Tecnológico Industrial E.P.E.-MINECO

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Agencia Estatal de Investigación (AEI)

Diego Intrigliolo (consultas científicas)

Justyna Chojnacka (consultas de carácter
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PRIMA Secretariat

The PRIMA Foundation has a truly Mediterranean spirit and its Secretariat is composed of international staff from PRIMA Participating States.

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Research & Innovation Initiatives



Partnerships for the development of the European Research Area (ERA).
From partnerships among public agencies to alliances between the public and private sectors.

Objectives: avoid fragmentation in the R&I landscape, avoid duplication of efforts, address economic crisis, competitiveness and innovation.

1.- Public-Public Partnerships (P2P):

- Joint Programming Initiatives (JPIs).
JTI Oceans, JPI FACCE, JPI HDHL
- Art. 185 initiatives - **PRIMA**
- **ERA-NETs,**
- European Joint Programmes (**EJPs**).

2.- Public-Private Partnerships (PPP),

- Joint Technology Initiatives (JTIs)
JTI Biobased industries (JTI-BBI)
- Public Private Partnerships (cPPP)

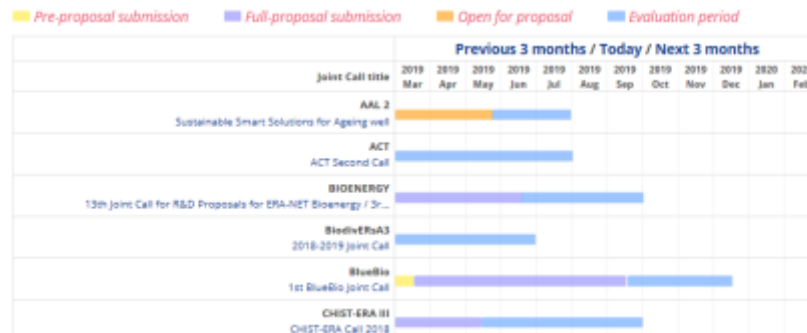
ERA-LEARN

Home / Explore P2Ps

<https://www.era-learn.eu/>

Joint Calls Calendar

Please note: The database of joint calls and funded projects is depending on data received by the networks.
Please contact us to display your calls: office@era-learn.eu



What are Joint Programming Initiatives - JPIs?

Introduced by the EC in **2008** to **implement the ERA**.

The objective is to "**increase the value of relevant national and EU R&D funding by concerted and joint planning, implementation and evaluation of national research programmes**".

In JPI Member States are expected to **coordinate** national research activities, **develop common research agendas**, in order to face **grand societal challenges**. JPIs intends to tackle the challenges that cannot be solved on the national level.



Coordinated approach in marine and maritime research. **Seas and Oceans** provide an essential part of our wealth and well-being.

- Global population requires food sources.
 - Underexplored marine biodiversity and marine renewable energy.
 - Transport modalities and tourism.
 - Human activities & climate change.
 - Coastal waters & areas
 - Deterioration of the marine environment



<http://www.jpi-oceans.eu/>

<https://vimeo.com/87770231>



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FACCE-JPI brings together **24 countries** who are committed to building an integrated ERA addressing the interconnected challenges of **sustainable agriculture, food security and impacts of climate change**.

FACCE Joint Activivites:

- FACCE MACSUR
- Exploratory Workshops
- International call on mitigation
- Joint call on Food Security and Land Use Change
- ERA-NET Plus on Climate Smart Agriculture
- Joint Call on Biodiv**ER**sA
- ERA-NET Cofund SURPLUS



INIA is the Spanish R&D representative in the initiative. www.inia.es

<http://www.faccejpi.com>

JPI - A HEALTHY DIET FOR A HEALTHY LIFE

Joint Programming of research in the field of nutrition, food and health will provide for coordination of research on the impact of diet and lifestyles on health, and on prevention of diet-related diseases and strengthening leadership and competitiveness on this field.



<https://www.healthydietforhealthylife.eu/>

Research Areas:

1. **Determinants of diet and physical activity:** ensuring the healthy choice is the easy choice for consumers
2. **Diet and food production:** developing high-quality, healthy, safe and sustainable food products
3. **Diet-related chronic diseases:** preventing diet-related, chronic diseases and increasing the quality of life - delivering a healthier diet



ERA-NET COFUND Budget calls

2.500
Mio€
2020

2018/2020
925 M€

2016/2017
800 M€

2014/2015
728 M€

ERA-LEARN

Home / Explore P2Ps

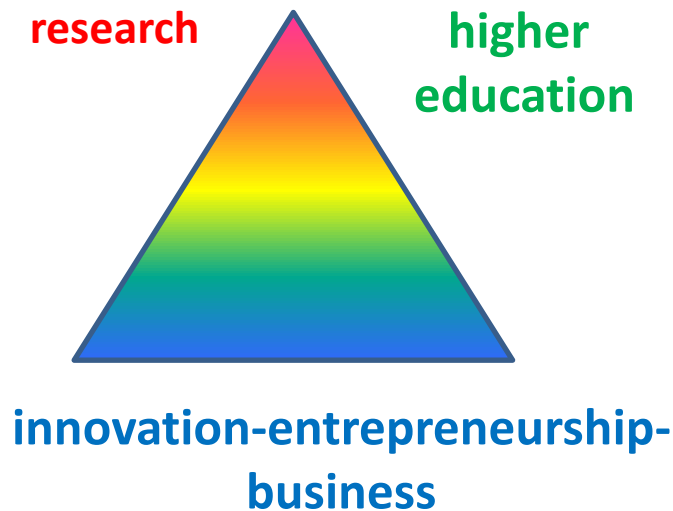
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The **European Institute of Technology (EIT)** is a body of the European Union which mission is to increase European sustainable growth and competitiveness by reinforcing the innovation capacity of the EU (transitions from idea to product, from lab to market, and from student to entrepreneur).



Knowledge and Innovation Communities (KICs) are Partnership of all actors of the innovation chain working together in **Collocation Centres**. KICs are legally and financially structured entities of key actors from the three sides of the knowledge triangle: **research**, **higher education**, and **innovation-entrepreneurship-business**. Long-term horizon of 7 to 15 years, but with short-, mid- and long terms objectives.

1

Fostering
growth and impact of
first 3 KICS

Climate-KIC
EIT ICT Labs
KIC InnoEnergy

2

Creating
5 new KICs

2014

EIT Health
EIT Raw Materials

2016

EIT Food
EIT Manufacturing

2018

EIT Urban Mobility

3

Sharing and
Disseminating

EIT good practices

incl. EIT Regional
Innovation Scheme
(EIT RIS)

EIT Food is a consortium of **50 partners** from leading businesses, research centres and universities across **13 countries**.

Formed **five Co-location Centres** across Europe: **Leuven** – CLC West (Belgium, France, Switzerland); **London** – CLC North-West (UK, Ireland, Iceland); **Madrid** – CLC South (Spain, Italy, Israel); **Munich** – CLC Central (Germany, The Netherlands); **Warsaw** – CLC North-East (Poland, Finland)



EIT Food objectives

EIT Food **aims to**, among others:

- Create 86 and **support 533 start-ups** within seven years, attracting in total EUR 191.6M.
- Train over **400 graduates** from EIT-labelled Master's programmes and have **285 000 participants** overall in educational programmes over seven years,
- Develop **398 new** or improved **products, services, and processes** by 2024.
- Have **147 000 citizens** participating in an annual food Trust Measuring Tool over the seven years.

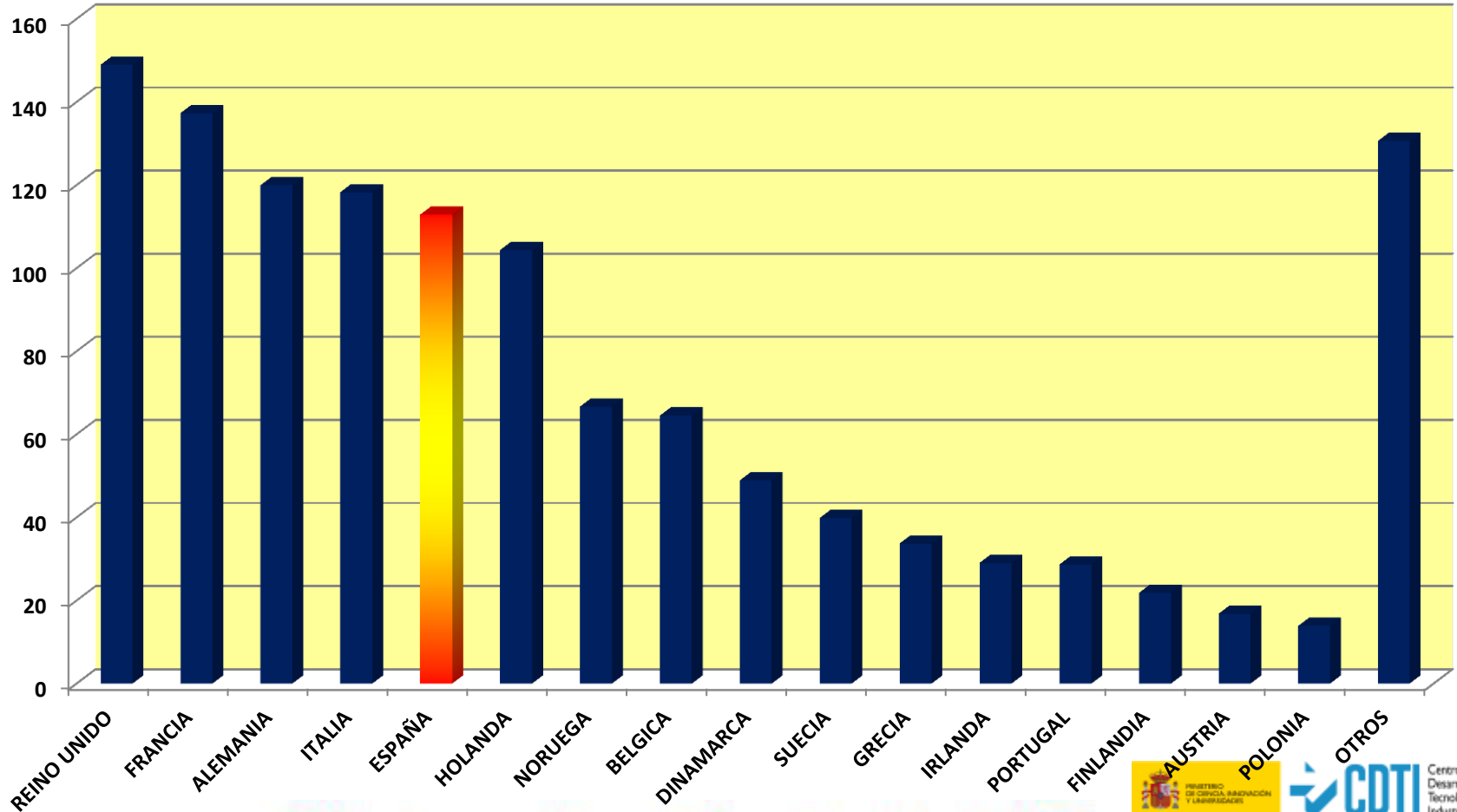
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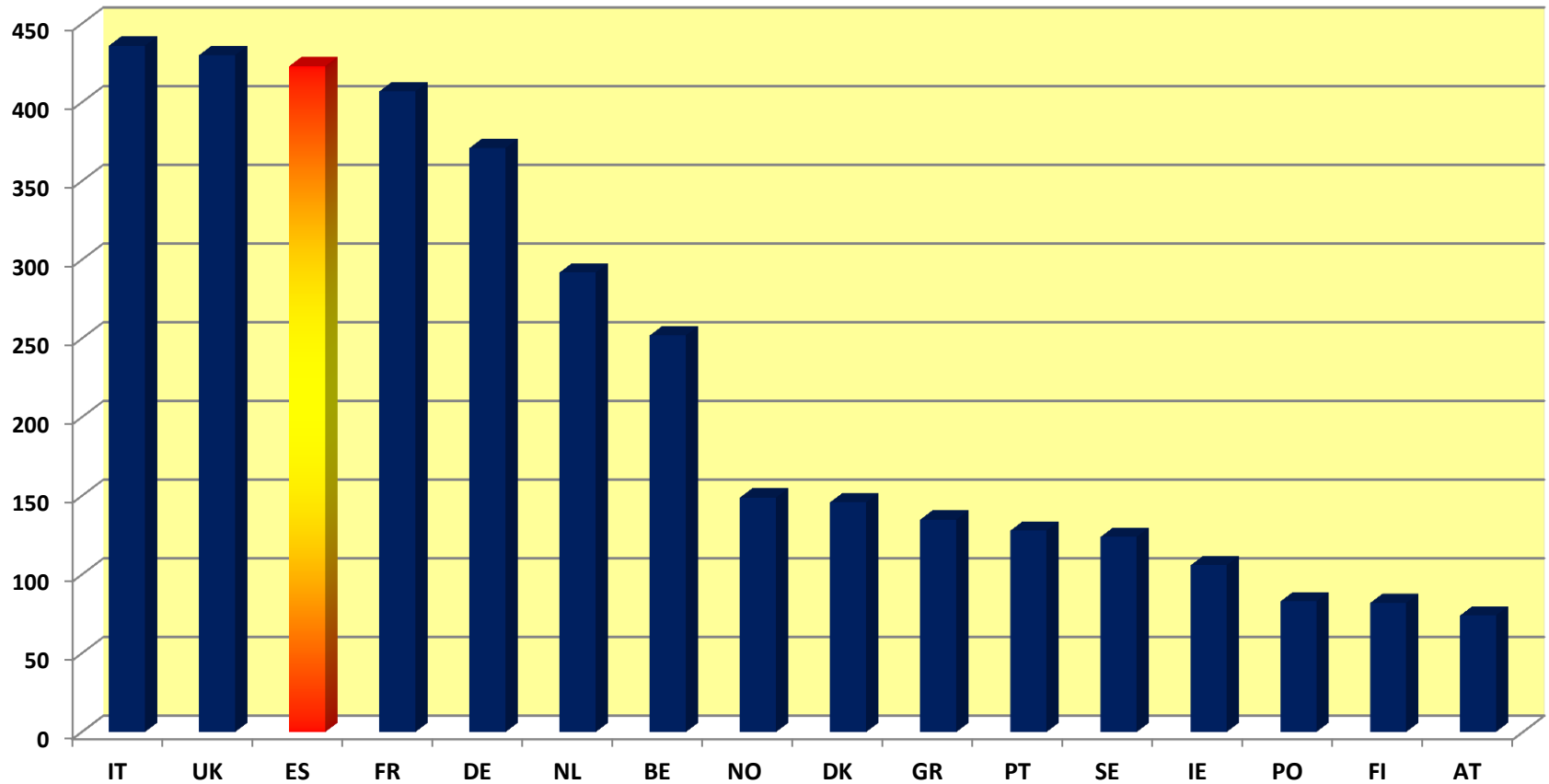
Participation. Accumulated (SC2)

	Actividades		Socios	Particip.	Subvención			KBBE FP7 %UE
	Nº	Lider	Nº	Nº	Euros (M€)	%	%UE	
REINO UNIDO	174	36	208	430	148,9	12,0%	13,5%	14,9%
FRANCIA	176	39	201	407	137,3	11,1%	12,5%	9,5%
ALEMANIA	169	24	218	371	119,9	9,7%	10,9%	13,8%
ITALIA	192	23	235	436	118,3	9,6%	10,8%	8,6%
ESPAÑA	186	23	243	423	112,9	9,1%	10,3%	9,2%
HOLANDA	146	23	130	292	104,3	8,4%	9,5%	12,1%
NORUEGA	85	10	73	149	66,7	5,4%		
BELGICA	133	10	139	252	64,5	5,2%	5,9%	6,6%
DINAMARCA	90	10	59	146	48,9	4,0%	4,4%	5,3%
SUECIA	90	6	64	124	39,8	3,2%	3,6%	3,7%
GRECIA	85	9	77	135	33,7	2,7%	3,1%	2,0%
IRLANDA	70	5	41	106	29,0	2,4%	2,6%	2,5%
PORTUGAL	88	2	76	128	28,6	2,3%	2,6%	2,0%
FINLANDIA	52	6	42	82	21,8	1,8%	2,0%	2,8%
AUSTRIA	55	2	46	74	16,8	1,4%	1,5%	2,5%
POLONIA	69	1	52	83	13,9	1,1%	1,3%	0,9%
OTROS	95	0	309	358	130,6	10,6%	5,5%	
Total:	238	238	2.632	4.591	1.236,4			
UE 28:					1.099,6			

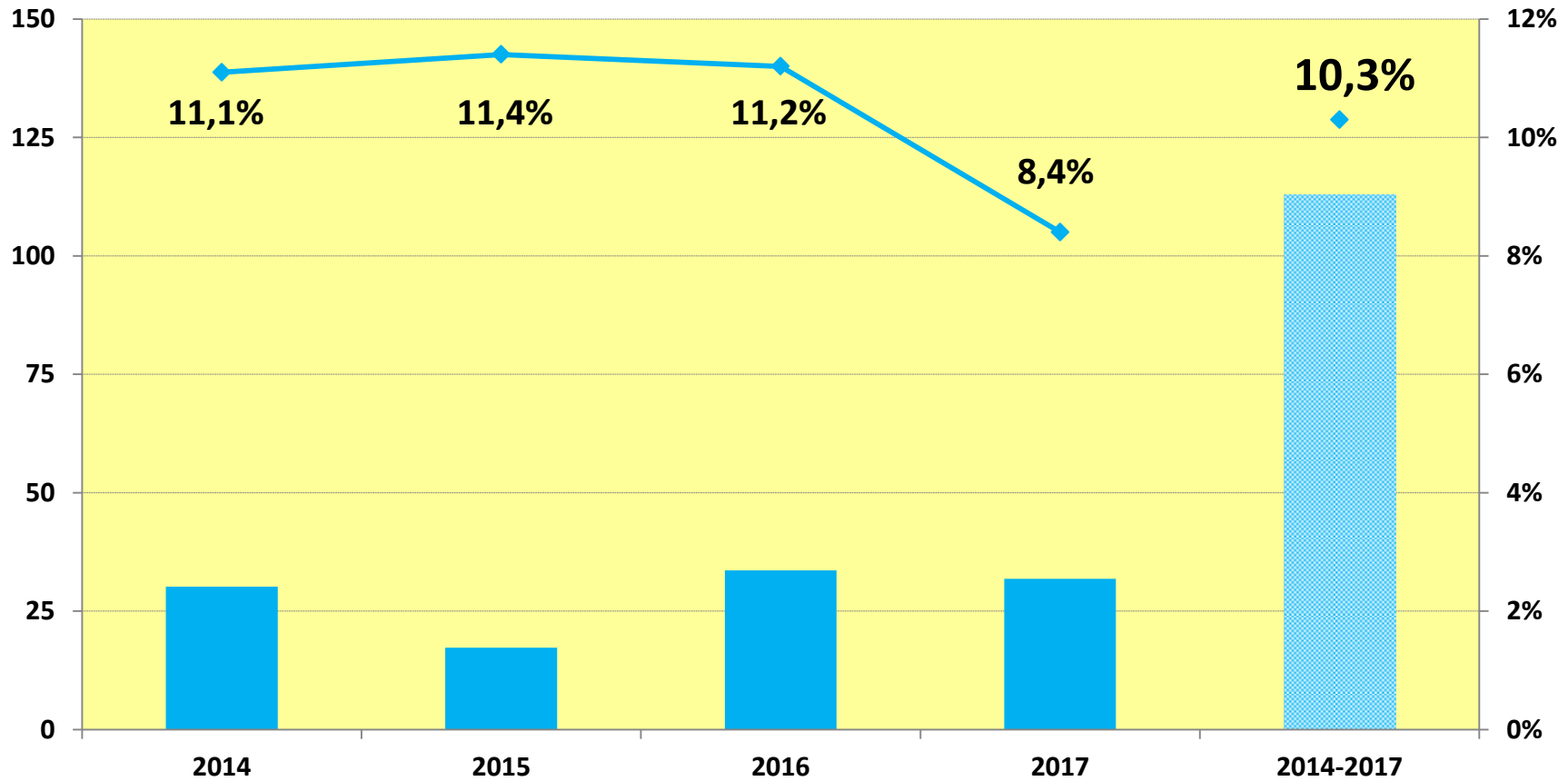
Participation. Accumulated (SC2) (€ Million)



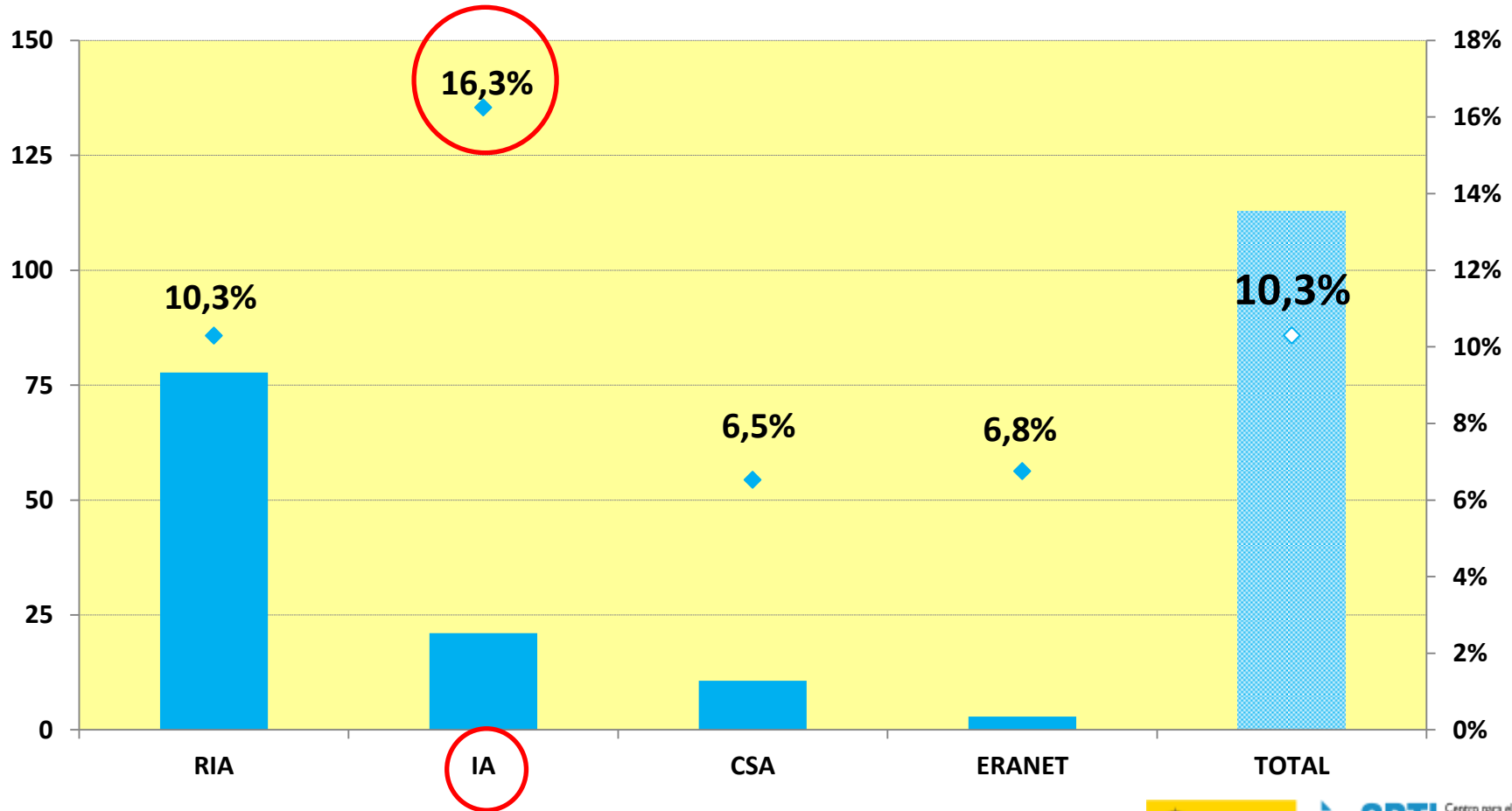
Participation. Accumulated (SC2) (Number of participants)



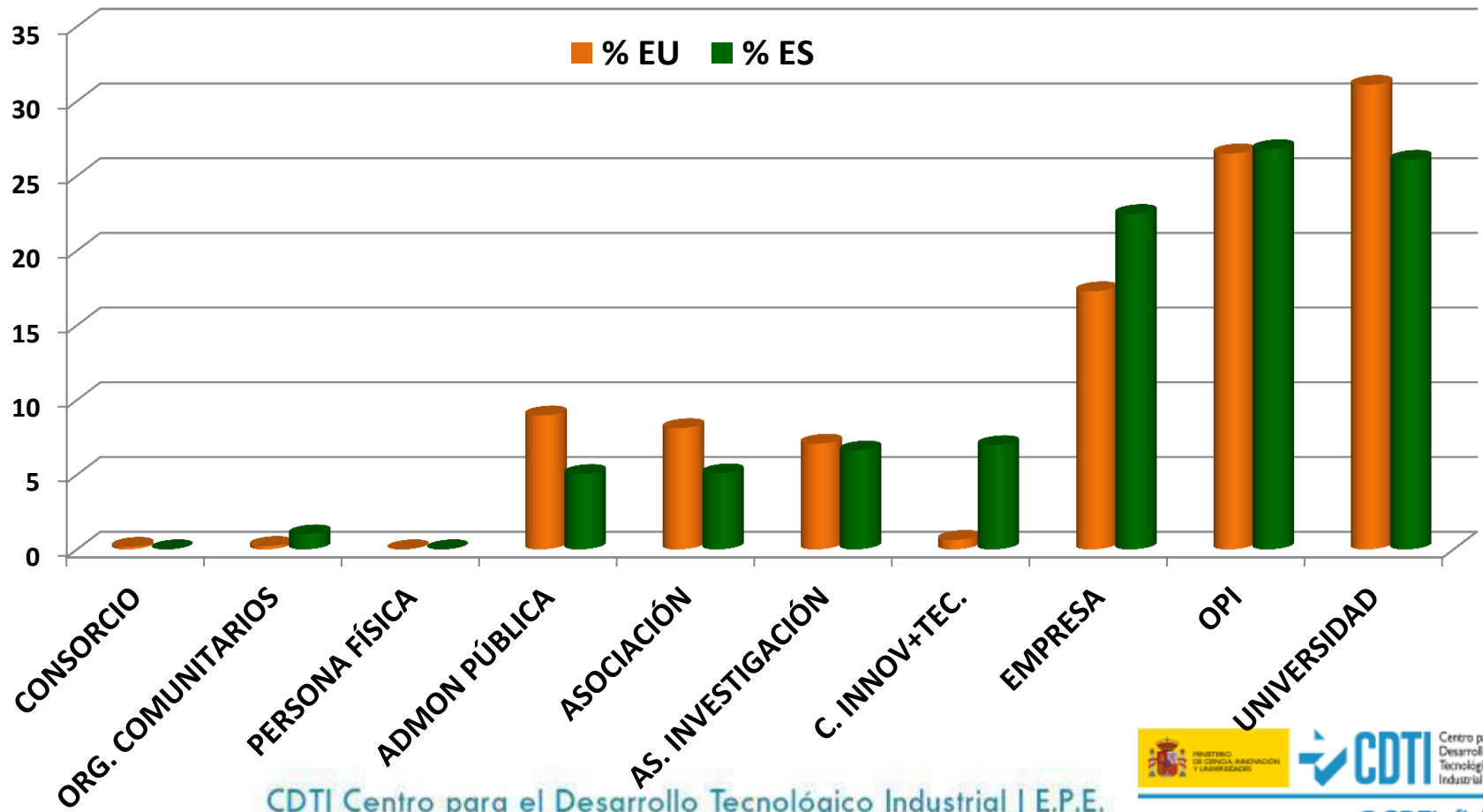
Participation. Accumulated (SC2)



Participation per Type of ACTIVITY (SC2)



Participation per Type of ENTITY (SC2)



SC2

Part

Entidad	N. Actividades	N. Act. Lideradas
CSIC	37	5
IRTA	15	1
INIA	20	0
AZTI	10	0
U. CORDOBA	6	0
U. ALMERIA	5	1
U. POLITECNICA DE MADRID	10	0
IEO	7	0
U. POLITECNICA DE VALENCIA	7	0
U. LERIDA	5	0
CETMAR	4	0
FCC AQUALIA	1	0
U. POLITECNICA DE CARTAGENA	2	1
U. BARCELONA	5	1
MINECO	7	0
U. CANTABRIA	4	0
U. COMPLUTENSE DE MADRID	3	0
U. LAS PALMAS DE GRAN CANARIA	3	0
GMV	1	1
INTIA	8	0
U. SANTIAGO DE COMPOSTELA	5	1
LEITAT	3	0
CDTI	5	0
BSC - BARCELONA SUPERCOMPUTING CENTER	3	0
CIHEAM-IAMZ	3	1

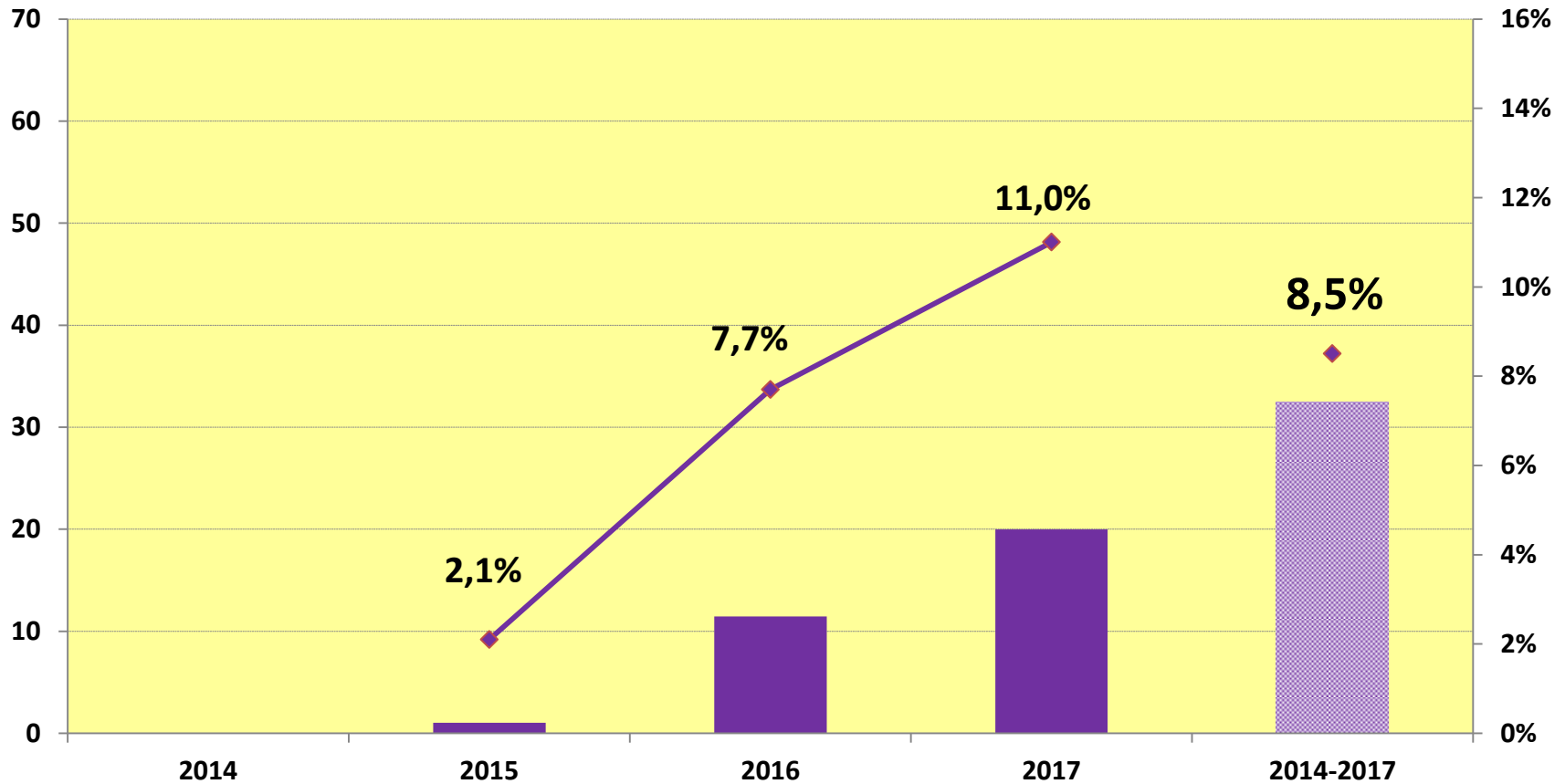
Participation per Region

COMUNIDAD	Actividades		Socios	Participaciones	Subvención	
	Nº	Líder	Nº	Nº	(M Euros)	%Total ES
MADRID	75	5	31	93	27,5	24,4%
CATALUÑA	54	6	42	77	23,5	20,8%
ANDALUCIA	40	2	31	50	12,6	11,2%
VALENCIA	28	2	22	35	9,9	8,8%
GALICIA	23	1	16	30	6,7	6,0%
ARAGON	13	3	17	20	6,4	5,7%
PAIS VASCO	23	0	19	31	6,2	5,5%
MURCIA	10	2	12	16	4,4	3,9%
NAVARRA	16	1	11	21	4,3	3,8%
CANARIAS	7	0	3	7	2,3	2,0%
CASTILLA Y LEON	10	0	12	12	2,1	1,9%
ASTURIAS	6	0	7	7	1,8	1,6%
CASTILLA-LA MANCHA	2	1	4	4	1,5	1,4%
CANTABRIA	4	0	3	6	1,4	1,3%
ISLAS BALEARES	6	0	6	7	1,1	1,0%
LA RIOJA	2	0	2	2	0,6	0,5%
EXTREMADURA	4	0	5	5	0,5	0,4%
	186	23	243	423	112,8	100%

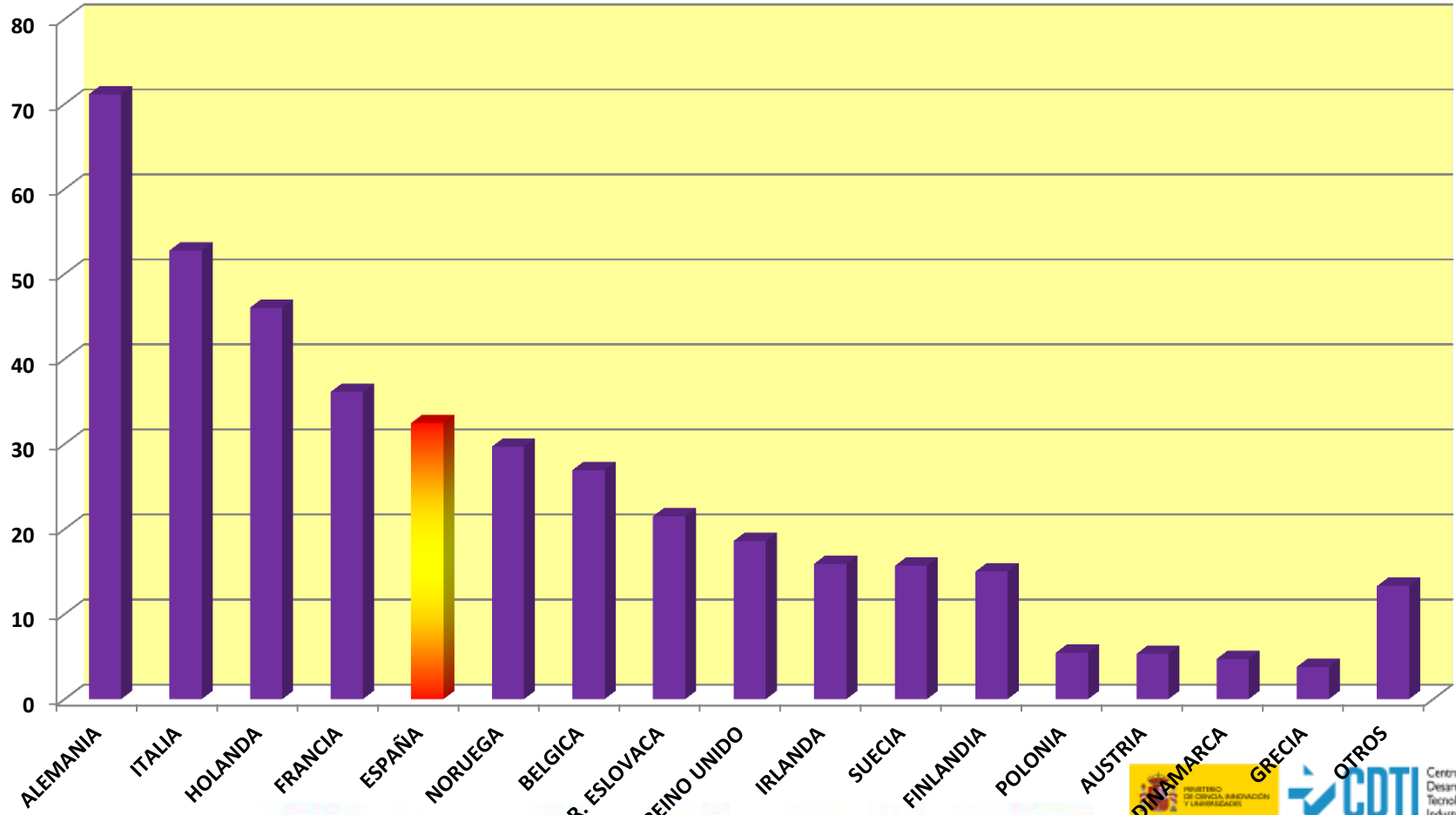
Participation in BBI – JTI on BIOBASED INDUSTRIES

	Actividades		Socios	Particip.	Subvención		
	Nº	Líder	Nº	Nº	Euros (M€)	%	%UE
ALEMANIA	51	7	67	95	71,1	17,2%	18,7%
ITALIA	36	8	55	74	52,8	12,7%	13,9%
HOLANDA	35	10	58	80	46,0	11,1%	12,1%
FRANCIA	24	6	52	59	36,1	8,7%	9,5%
ESPAÑA	29	11	58	83	32,5	7,8%	8,5%
NORUEGA	9	2	11	13	29,7	7,2%	
BELGICA	35	4	38	58	26,9	6,5%	7,1%
R. ESLOVACA	5	0	8	9	21,5	5,2%	5,7%
REINO UNIDO	33	2	42	49	18,6	4,5%	4,9%
IRLANDA	7	3	12	14	15,9	3,8%	4,2%
SUECIA	19	3	26	38	15,7	3,8%	4,1%
FINLANDIA	19	5	25	42	15,0	3,6%	3,9%
POLONIA	7	1	11	11	5,5	1,3%	1,4%
AUSTRIA	16	0	19	21	5,3	1,3%	1,4%
DINAMARCA	9	1	11	15	4,7	1,1%	1,2%
GRECIA	8	1	6	8	3,8	0,9%	1,0%
OTROS		0	52	59	13,3	3,3%	2,4%
Total:		65	551	728	414,4		
Total UE:					380,6		

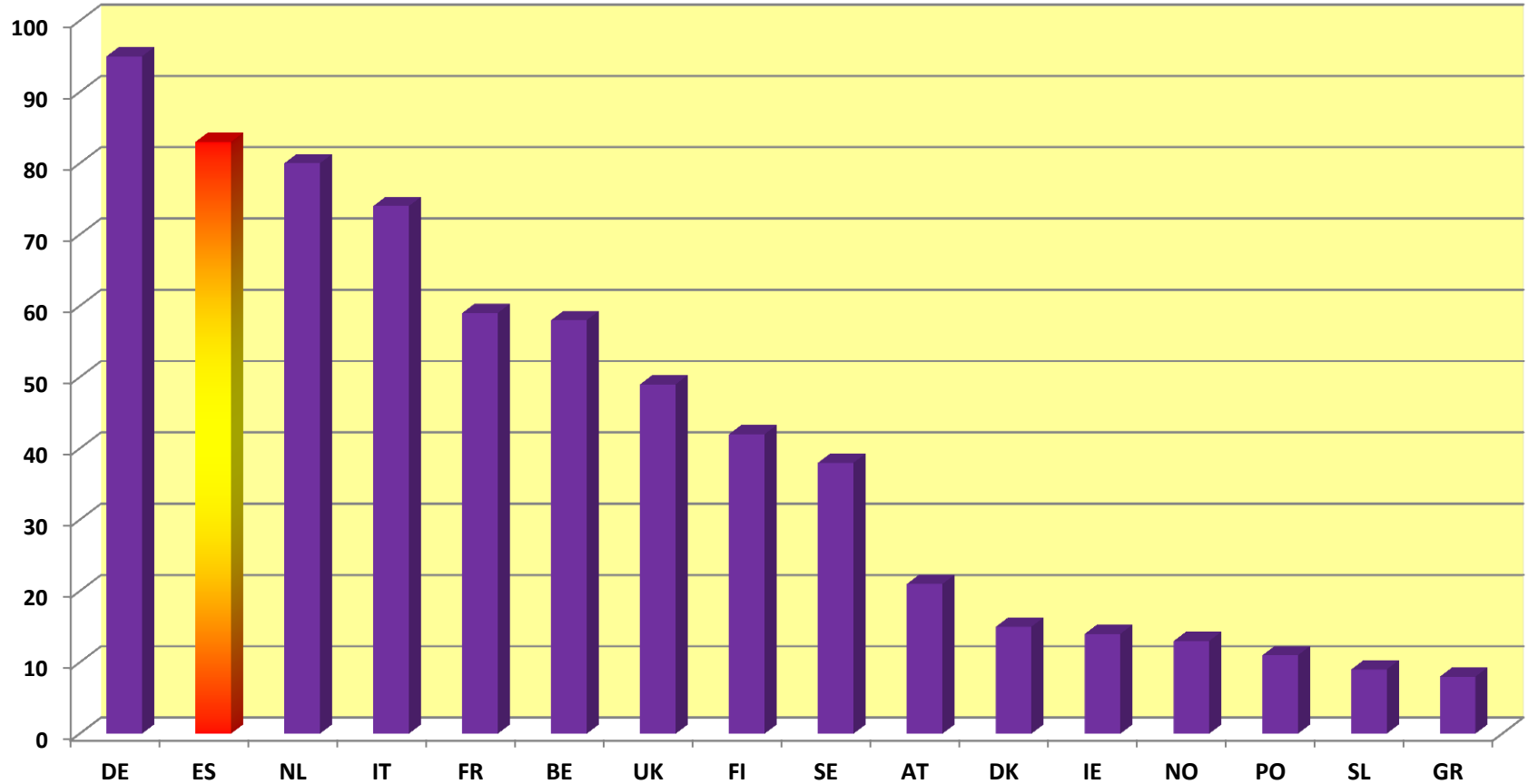
Participation in BBI – JTI on BIOBASED INDUSTRIES



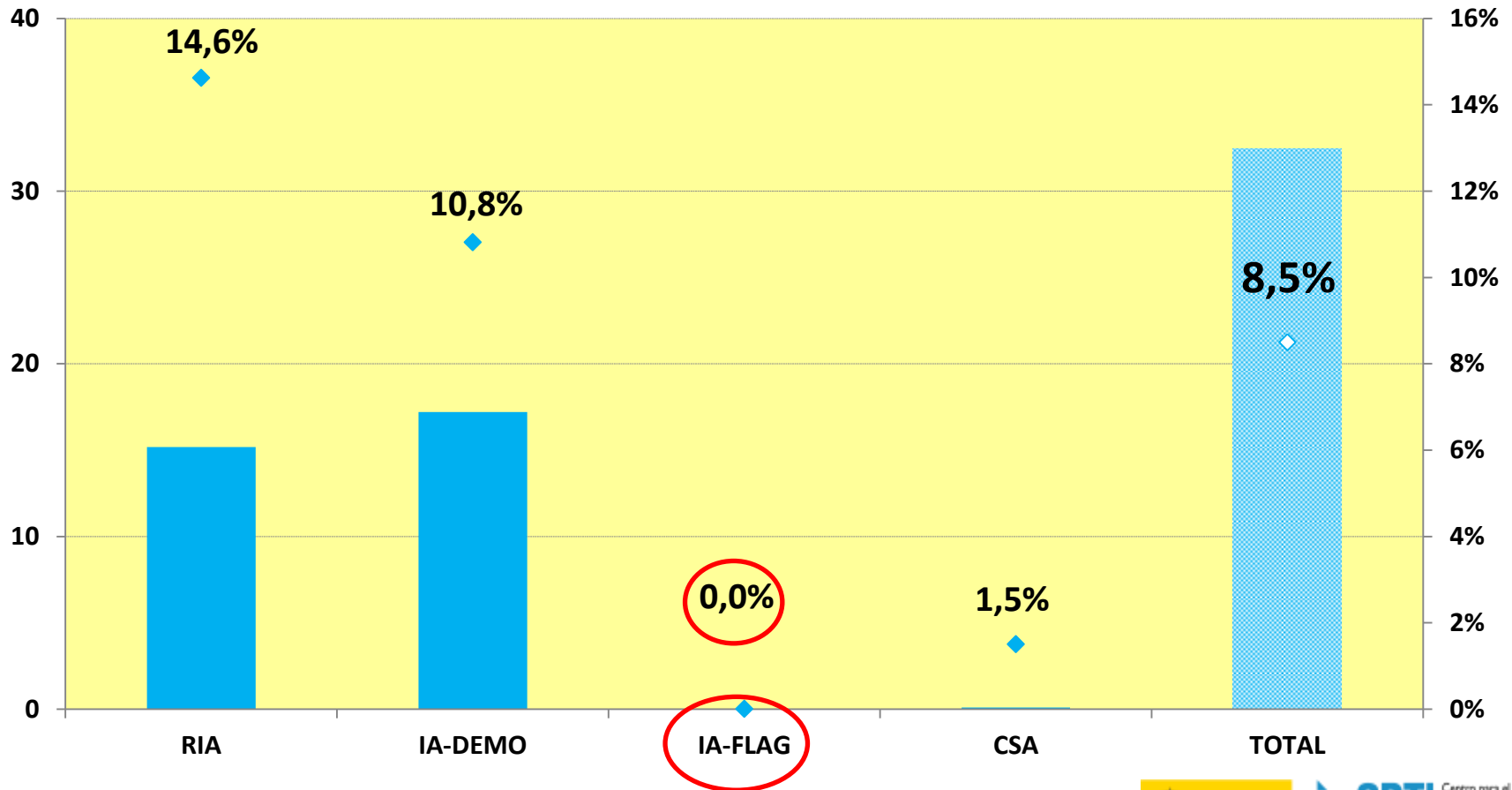
Participation in BBI – JTI on BIOBASED INDUSTRIES (€ Million)



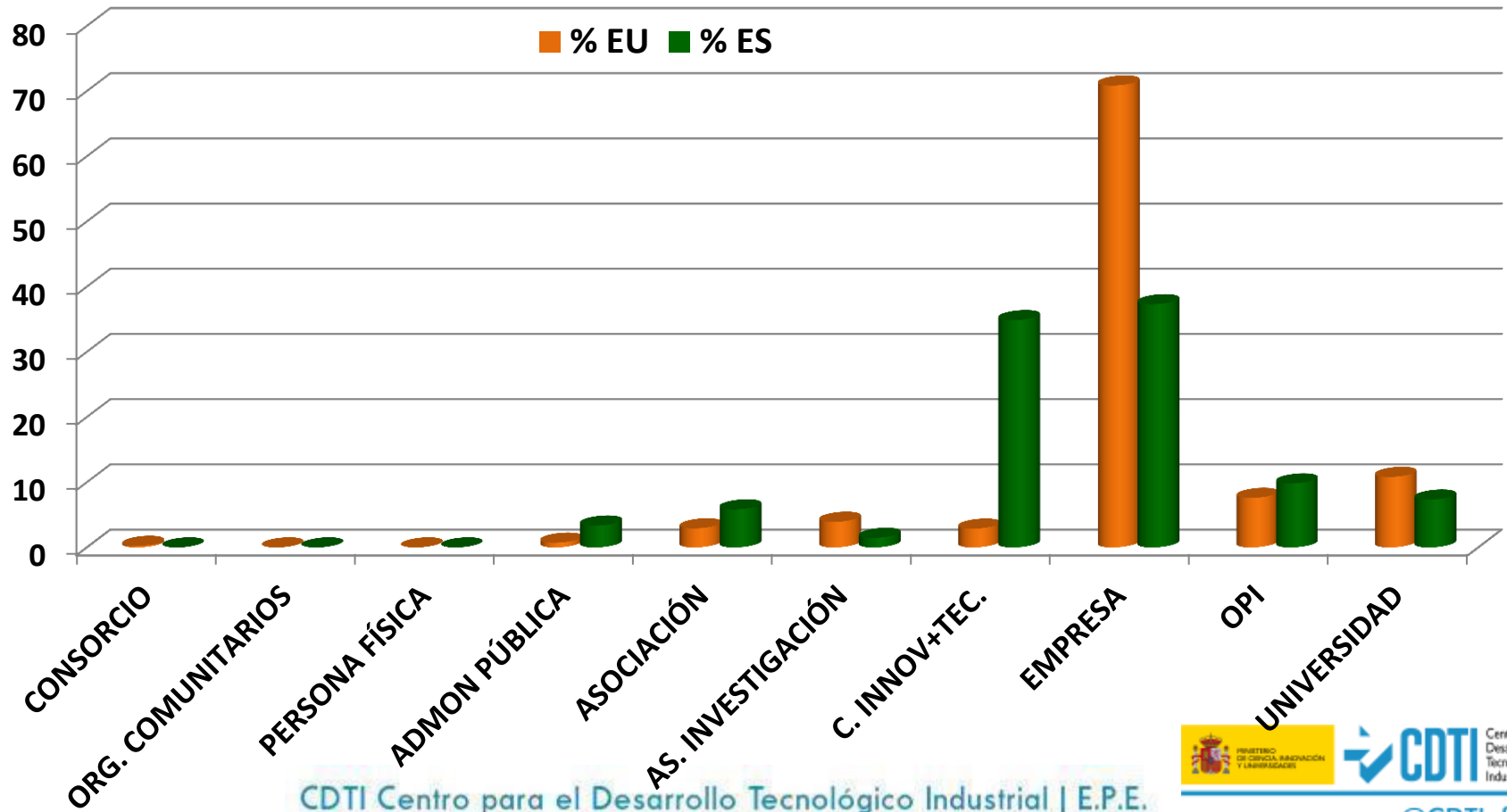
Participation in BBI – JTI on BIOBASED INDUSTRIES (participants)



Participation in BBI per Type of ACTIVITY



Participation in BBI per Type of ENTITY



Entidad	N. Actividades	N. Act. Lideradas
IRIS	6	1
ITENE	4	0
IMECAL	2	2
CSIC	3	1
AITIIP	4	1
COOPERATIVAS AGRARIAS CATALUÑA	1	0
AIMPLAS	5	0
AINIA	3	0
FUNBRICKS SL	2	0
IRIAF - CLM	1	0
U. VALLADOLID	1	0
TEKNIKER	1	1
URBASER, S.A.	1	0
U. ALICANTE	2	0
CIEMAT	1	0
CIDETEC	1	1
AITEX	1	1
CENER-CIEMAT	1	0
CNTA	2	0
CONTACTICA SL	1	1
BIOPOLIS SL	4	1
FERTIBERIA, S.A.	1	1

Participation per Region

COMUNIDAD	Actividades		Socios	Participaciones	Subvención	
	Nº	Líder	Nº	Nº	Euros	%Total ES
VALENCIA	15	4	9	23	8,9	27,4%
CATALUÑA	8	1	6	12	6,8	20,9%
MADRID	8	3	10	10	4,6	14,1%
ARAGON	6	1	5	9	3,0	9,2%
PAIS VASCO	4	2	4	4	2,3	7,0%
CASTILLA Y LEON	4	0	5	5	1,7	5,2%
NAVARRA	4	0	5	6	1,5	4,6%
ANDALUCIA	5	0	5	5	1,3	4,1%
MURCIA	4	0	6	6	1,1	3,4%
CASTILLA-LA MANCHA	1	0	1	1	1,1	3,4%
LA RIOJA	1	0	1	1	0,3	0,8%
ASTURIAS	0	0	0	0	0,0	0,0%
ISLAS BALEARES	0	0	0	0	0,0	0,0%
CANARIAS	0	0	0	0	0,0	0,0%
CANTABRIA	0	0	0	0	0,0	0,0%
EXTREMADURA	0	0	0	0	0,0	0,0%
GALICIA	1	0	1	1	0,0	0,0%
TOTAL:	29	11	58	83	32,5	100%

Participation. Accumulated (SC2+BBI)

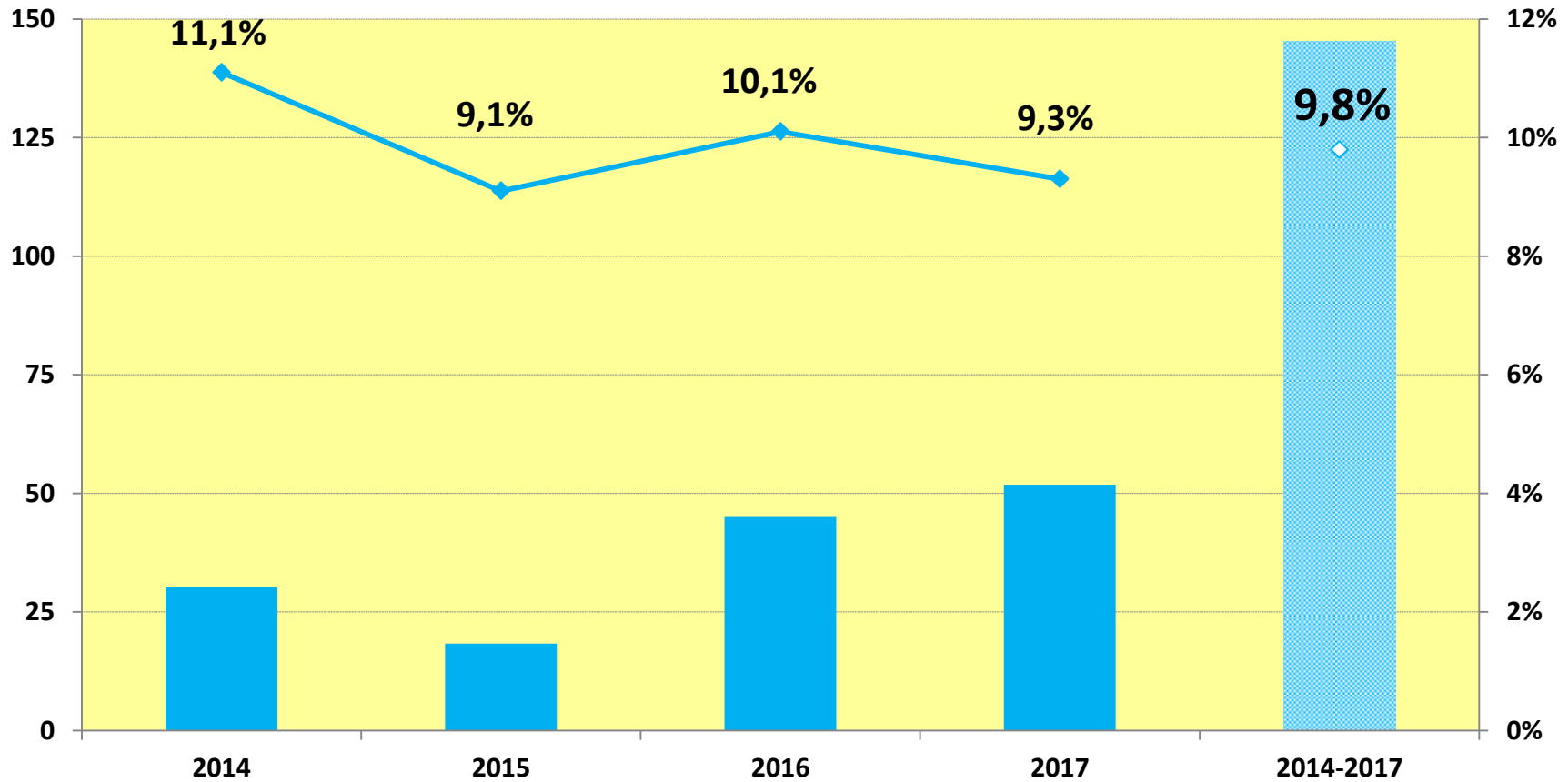


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- Other R&I Partnerships: JPI, ERA-NET Cofund, and KIC Food
- Results - H2020 SC2 (2014-2017)
- **Toward FP9**



Horizon Europe (2021-2027) – 100billion €



Cluster: Food and Natural Resources – 10billion€

[EU BUDGET FOR THE FUTURE - HORIZON EUROPE](#)
[Legal texts on Horizon Europe](#)

Clusters and Sustainable Development Goals

Cluster 5: Food and natural resources



Source: EC

What does the future hold for Bioeconomy?

Agriculture & Forestry

Marine Resources

Food

BioIndustries

Marine & maritime



BIO-BASED INDUSTRIES
Public-Private Partnership

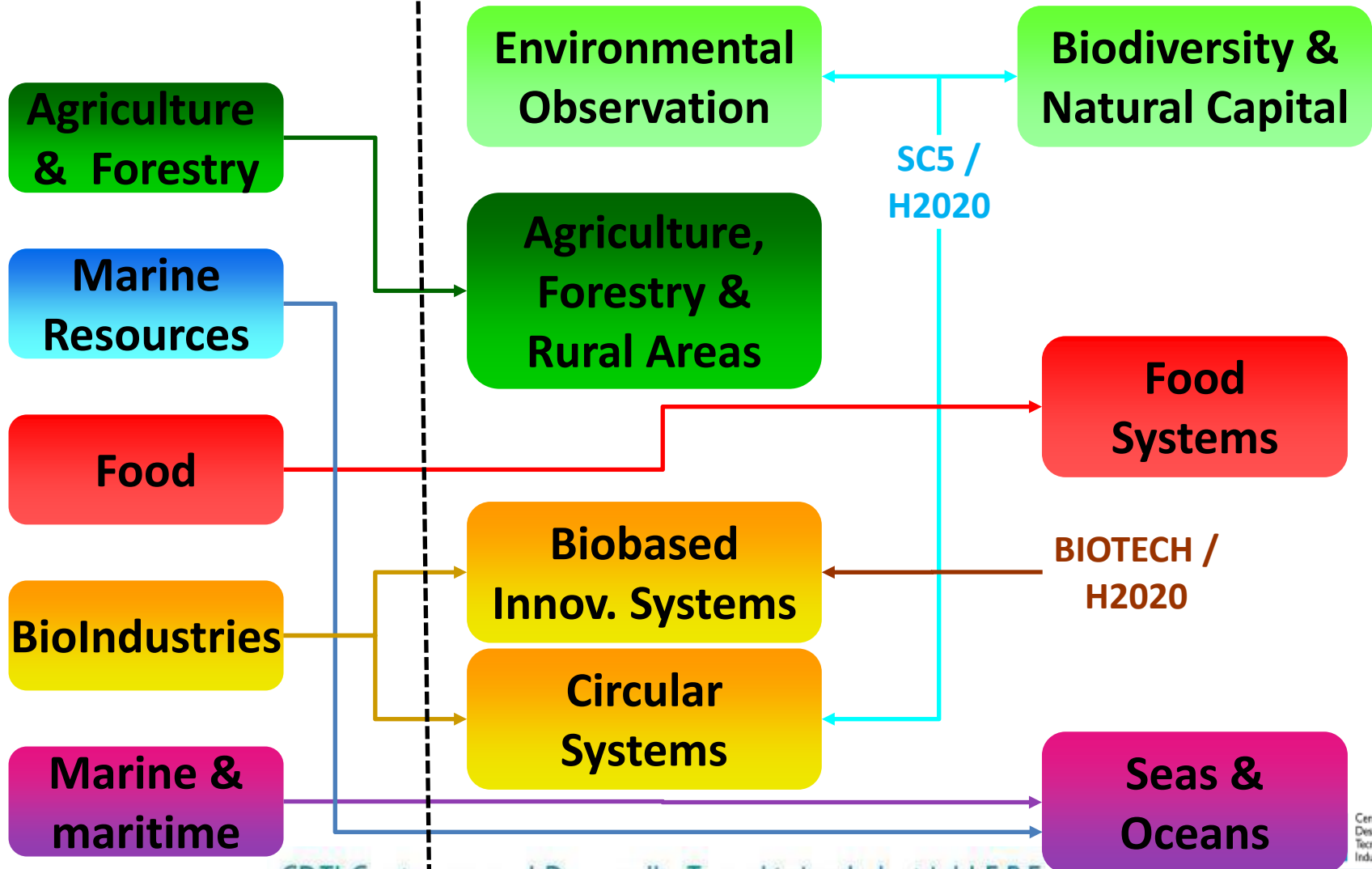


BIOECONOMY

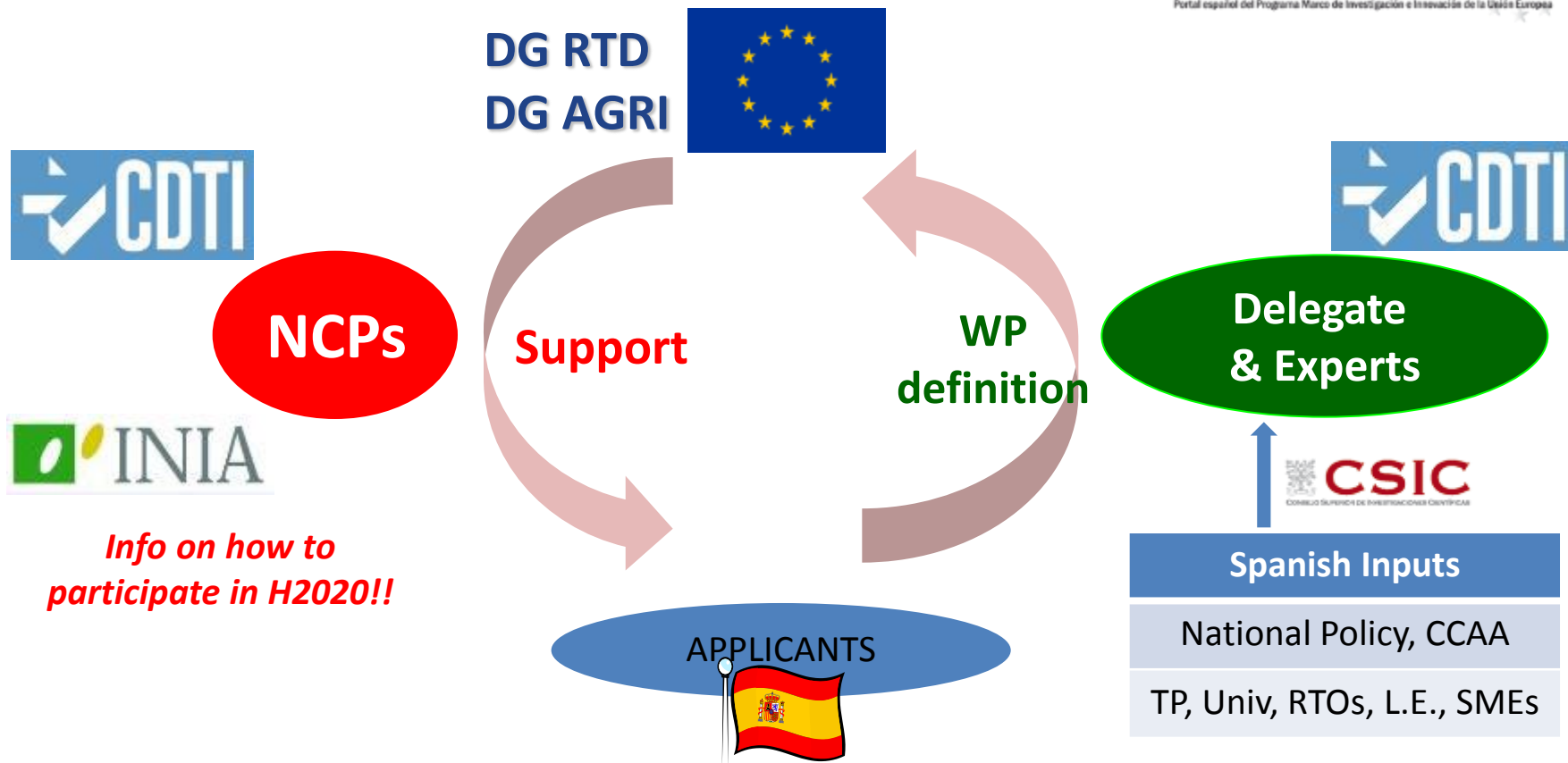
under H2020

Food and Natural Resources

under FP9



We are here to help you!



Info on how to participate in H2020!!

SC2 Bioeconomy + LEIT (Biotechnology)

- Marta Conde (CDTI) - NCP
- Jesús Escudero (INIA) - NCP

SC2 Bioeconomy

- José Manuel González (CDTI) - Delegate
- Diego Intrigliolo (CSIC) – Expert
- Marta Conde (CDTI) – Expert

Contactos en España

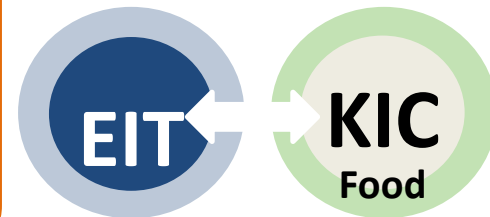
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The EU Bioeconomy Universe

Societal Challenge 2 Bioeconomy
3.708M€ (2014-2020)

Biennial Work Programmes and annual Calls



JTI on Bioindustries 975M€
Annual Work Plans



H2020 Multiactor Approach projects & Thematic Networks

Operational Groups & Projects – Rural Development Policy (CAP)



+ info sobre programas y ayudas
para la
internacionalización de la I+D+I española

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