



#InvestEUresearch



# Horizon 2020 Work Programme for Research & Innovation 2018-2020

Oportunidades en otros programas  
europeos sinérgicos con H2020

**Dr. Marina Martínez-García** (marina.cdti@sost.be)

NCP Secure Societies H2020, CDTI-SOST

Expert of the EC Service Facility in support of International Cooperation in Research and Innovation  
[communication@ServiceFacility.eu](mailto:communication@ServiceFacility.eu)

Research and  
Innovation



# Hay vida más allá de H2020...



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European  
Commission

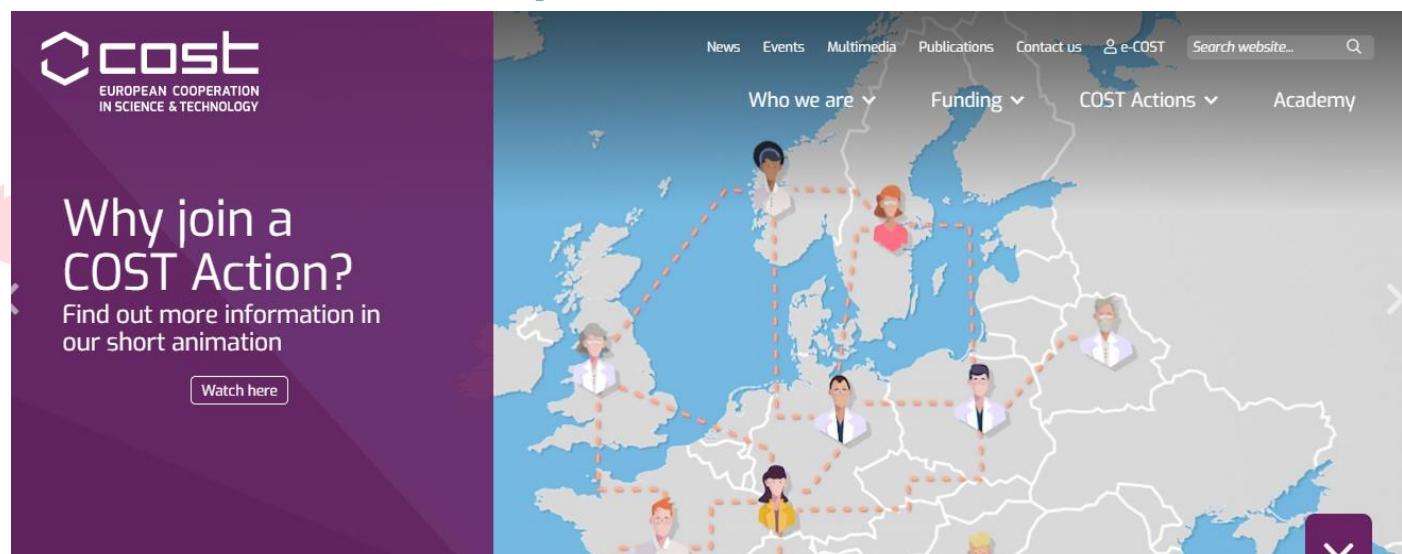
# **COST actions...**

# Qué es COST...

**COST (CO-operation in Science and Technology)** es el principal programa de europeos de **networking** y de **redes de investigadores, ingenieros y estudiantes de PhD** en todos los ámbitos de la ciencia, la tecnología y las humanidades.

- ✓ Instrumento de **networking exclusivamente**
- ✓ Participación **abierta** a todos tipo de actores, instituciones, niveles en la carrera investigadores y **países**.
- ✓ **Bottom-up approach and researcher driven → NO TOPICS**
- ✓ Flexible y adaptable a cualquier disciplina y actividad de investigación

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



6 Áreas principales...

- ✓ Natural Sciences,
- ✓ Engineering and Technology,
- ✓ Medical and Health Sciences,
- ✓ Agricultural Sciences,
- ✓ Social Sciences,
- ✓ Humanities



... y 41 Sub-áreas científicas...

En total = **719 temáticas de expertise** (research areas)

**c****cost**  
EUROPEAN COOPERATION  
IN SCIENCE & TECHNOLOGY

Growing ideas  
through  
networks

Discover More

News Events Multimedia Publications Contact us e-COST Search website...

Who we are Funding COST Actions Academy

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# Características de una acción COST...

- ✓ **Duración de 4 años** para relaizar actividades conjuntas entre los socios de la red (firma de un MoU) → **Propuesta de “red de socios” en consorcio.**
- ✓ Se aplica, evalua & seleccionan las propuestas de “redes de socios” a través de “Open Call for proposals” que gestiona el secretariado COST en Bruselas.
- ✓ Tipo de actividades de la “red de socios” → Reuniones, Workshops, **Short Term Scientific Missions grants (STSM)**, Training Schools, Summer Schools, etc.
- ✓ El **presupuesto medio por año para toda la red es pequeño ≈129.000 Euros** → Viajes, alojamientos, entradas a congresos, pequeños gastos asociados a organización de reuniones y eventos,... → **No es investigación ni compra de equipos científicos!**

# Países europeos socios del Programa COST

● EU 28

● EU Candidates and Potential Candidates

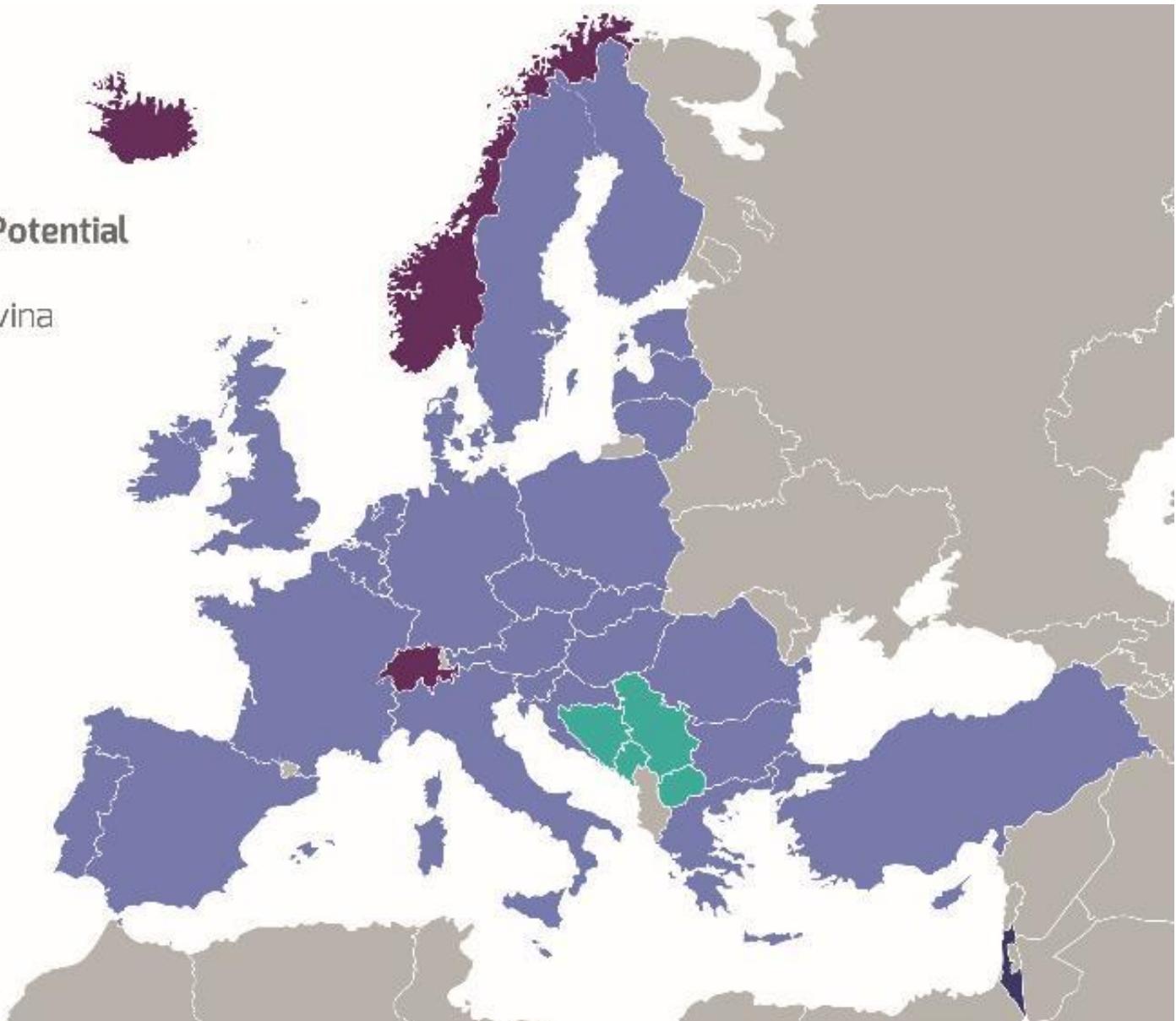
Bosnia and Herzegovina  
fYR Macedonia  
Montenegro  
Republic of Serbia  
Turkey

● Other countries

Iceland  
Norway  
Switzerland

● COST Cooperating Member

Israel



✓ **Objetivos Generales:** Extender la **excelencia** y la **inclusividad**

- Reforzar el intercambio de excelencia científica y el networking más allá de los principales polos de excelencia europeos
- Promover la diversidad geográfica, de edad y género en todas las actividades que cada red de socios realice → Criterios que influyen en la evaluación.

✓ **Objectivos Específicos**

- **Fomentar la cooperación internacional**
- Ampliar la dimension industrial → **No sólo ciencia sino** también hacer diseminación de avances científicos y tecnológicos e **intercambio con las empresas y sector público.**

# COST Inclusiveness Target Countries

## EU 13

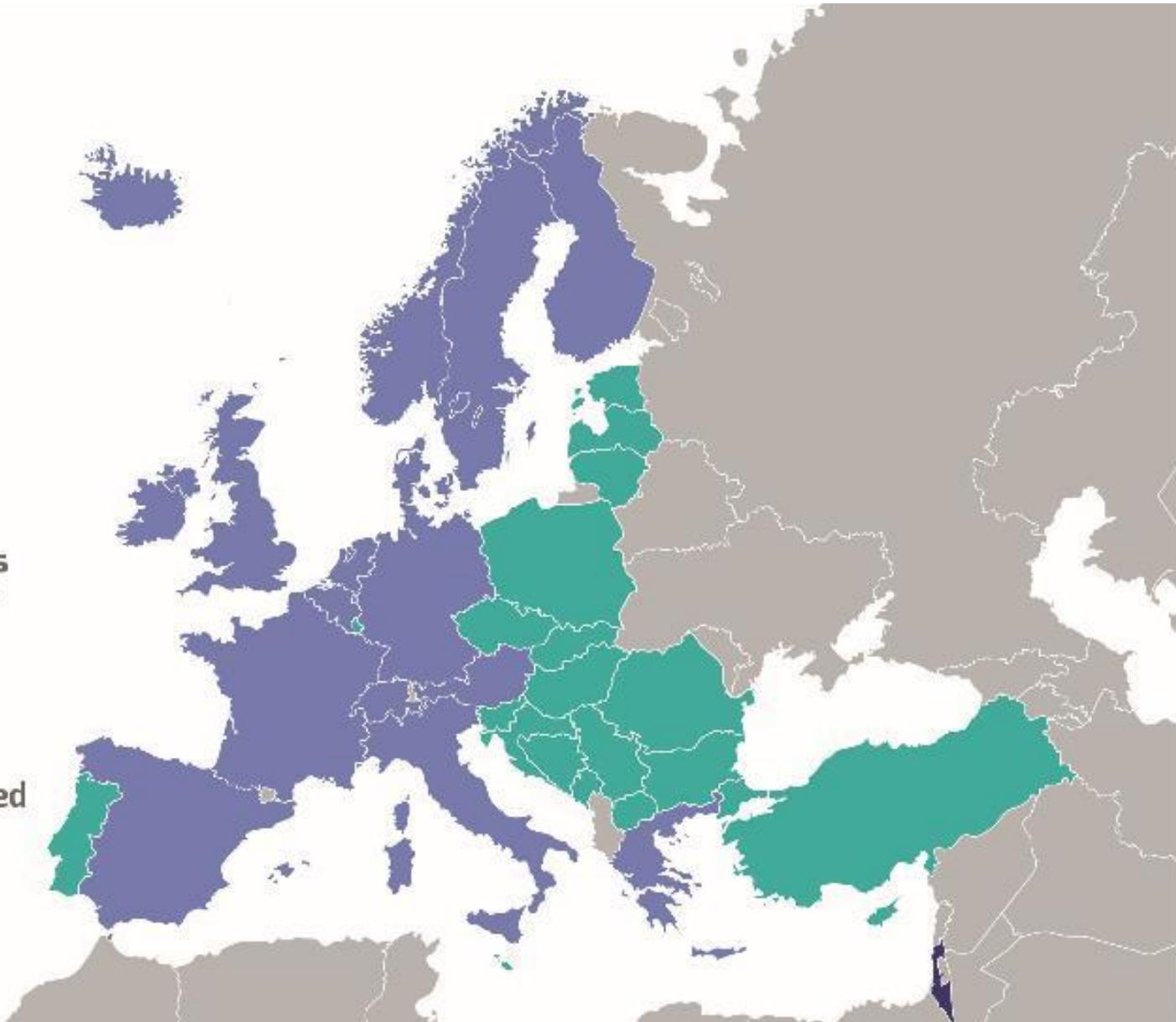
Bulgaria  
Croatia  
Cyprus  
Czech Republic  
Estonia  
Hungary  
Latvia  
Lithuania  
Malta  
Poland  
Romania  
Slovakia  
Slovenia

## EU Candidates and Potential Candidates

Bosnia and Herzegovina  
fYR Macedonia  
Montenegro  
Republic of Serbia  
Turkey

## EU countries targeted by the European Commission:

Luxembourg  
Portugal



# COST Near Neighbour Countries

- COST Full & Cooperating Members
- Near Neighbour Countries



# COST International Partner countries



# Ejemplos de participación...

## COST-DIVAS

DEEP INVESTIGATION ON VIRAL ASSOCIATED SEQUENCES

Presentation Coordination Core Group Members & Partners Final meeting

### Home

- > PRESENTATION
- > COORDINATION
- > CORE GROUP
- > MEMBERS & PARTNERS
- > FINAL MEETING

WELCOME ON THE WEBSITE OF THE COST ACTION  
A network of 282 scientists from 45 countries

Empowering high throughput sequencing for the study and the diagnostic of plant viruses

### Description

The objective of the Action is to coordinate and raise the European capacity to apply Next Generation Sequencing (NGS) technologies for the **study and diagnosis of viral diseases** in vegetatively propagated plants, seeds and seedlings. The Action is highly timely and needed because viral diseases are currently a major economic problem in agriculture throughout the world. The increasing importance of vegetative propagation in plant production and the intensified global plant trade are further increasing the risk of viral diseases in Europe. NGS enables rapid and reliable holistic virus identification (indexing), which is needed for the development of innovative, knowledge-based solutions for plant production. By bringing together a multidisciplinary and multi-actor consortium, the proposed action will ensure cost-effective research and build up a strong Pan-European knowledge-base network for better control of established, emerging and exotic viral plant diseases. The action will deliver new scientific knowledge about viral plant diseases that are currently poorly understood, and contribute to the development of more effective surveillance of stock material health and to the improvement of quarantine procedures. The action thus implements the EU strategy of integrated pest management and protection against harmful plant pathogens and contributes to the securement of food production.

### COST International Partner Countries

#### Institution Name

National Research Council of Argentina (CONICET)

Argentina

New Zealand Institute for Plant & Food Research

New Zealand

Stellenbosch University

South Africa

COMSATS Institute of Information Technology

Pakistan

International Potato Center

Peru

Instituto Politecnico Nacional - CHDIR

Mexico

National Center for Genetic Engineering and Biotechnology

Thailand

European  
Commission

# Apoyando a los jóvenes investigadores

- ✓ 96% de los investigadores que reciben una STSM grant mejoran sus oportunidades en su carrera Científica!
- ✓ A través de las acciones COST después se generan NO SÓLO becas ERC y MSCA, sino también consorcios de proyectos colaborativos de H2020.



# Logros estratégicos del programa COST

- ✓ Apoyo a la investigación de manera inclusiva → Dar oportunidad de **visualizarse y dar a conocer** a investigadores más noveles.
- ✓ Contribuye a que salgan **nuevas temáticas** que las que habitualmente vemos en los programas nacionales de I+D
- ✓ Promueve la **cooperación internacional**
- ✓ Contribuye a las **PYMES y la industria** se impliquen con los científicos y tecnólogos



# Sobre Intellectual Property Right (IPR)



The screenshot shows the COST website homepage. On the left, there's a purple sidebar with the COST logo and a red dashed circle highlighting an "Open Call" for 5 September 2019. The main navigation bar at the top includes links for News, Events, Multimedia, Publications, Contact us, e-COST, Search website..., Who we are, Funding, COST Actions, and Academy. Below the navigation is a large image of a blue hexagonal structure, likely the Atomium in Brussels.



A photograph of a group of approximately 30 people posing for a group photo in a room. In the background, there's a banner that says "cost | academy".

## The COST Academy:

 Develops leadership, COST Action management, administrative and communications skills.

 Participants are invited based on their role within the Action.

 Courses are led by experts and combine theory with practical exercises.



A photograph of the Atomium, a famous landmark in Brussels, Belgium, showing its iconic spherical structure and surrounding environment.

### External events

 **Workshop in Brussels: preparing a successful COST Action proposal**  
June 6, 2019 10:00

On 6 June, CECOST (members: BELSPO, FWO, FWB, SPW, Innoviris and EWI) will organise a workshop in Brussels on how to prepare a successful COST Action proposal. Venue: Fédération Wallonie Bruxelles Administration générale de l'Enseignement

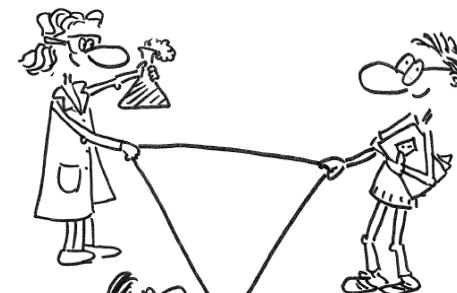
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**European Institute of  
Technology, EIT**

To contribute to sustainable European economic growth and competitiveness by reinforcing the **innovation capacity** of the EU...  
... by promoting and integrating the **knowledge triangle** of higher education, research and business



Research



Higher Education



Business

student to entrepreneur

idea to product

lab to customer

The goal is to boost the innovation process from...

## Main characteristics

- ✓ **long-term strategic** approach (each KIC is set up for a min. of 7 years)
- ✓ **high degree of integration** (each KIC is a **legal entity**)
- ✓ **effective governance:** leadership by a Chief Executive Officer and a lean management team at central and co-location level
- ✓ the **co-location** model (each KIC consists of typically 5-6 cluster-like nodes with a clear geographic anchoring)
- ✓ **sufficient autonomy and flexibility:** to determine organisational structure and activities governed by a Board of KIC partners organisations
- ✓ clear targets and deliverables (each KIC sets up a **business plan with measurable deliverables**)
- ✓ **Smart funding & high degree of commitment of partners** (EIT funding to KICs is max. 25% of their total budget over time, with 75% to be attracted from other sources – public and private)

**NO ONE-SIZE FITS ALL KIC MODEL !!!**

# KICs, Knowledge and Innovation Communities

 European Institute of  
Innovation & Technology

Search for... 

 A body of the European Union

EIT COMMUNITY Who we are ACTIVITIES What we do COLLABORATE Work with us NEWSROOM What's going on INTERACT Connect with us IN YOUR LANGUAGE EIT in all EU languages

**2018 Call for Proposals** →  
Find the latest information about the 2018 Call

EIT Climate-KIC →  
EIT Digital →  
EIT Food →  
EIT Health →  
EIT InnoEnergy →  
EIT Manufacturing →  
EIT Raw Materials →  
EIT Urban Mobility →

**EIT - Making innovation happen**

 Climate-KIC



EIT Climate-KIC supported Mimica Lab is Techworld's top 'UK greentech start-up...' 31/01/2019

# KICs, Knowledge and Innovation Communities



EIT



EIT Climate-KIC



EIT Digital



EIT Health



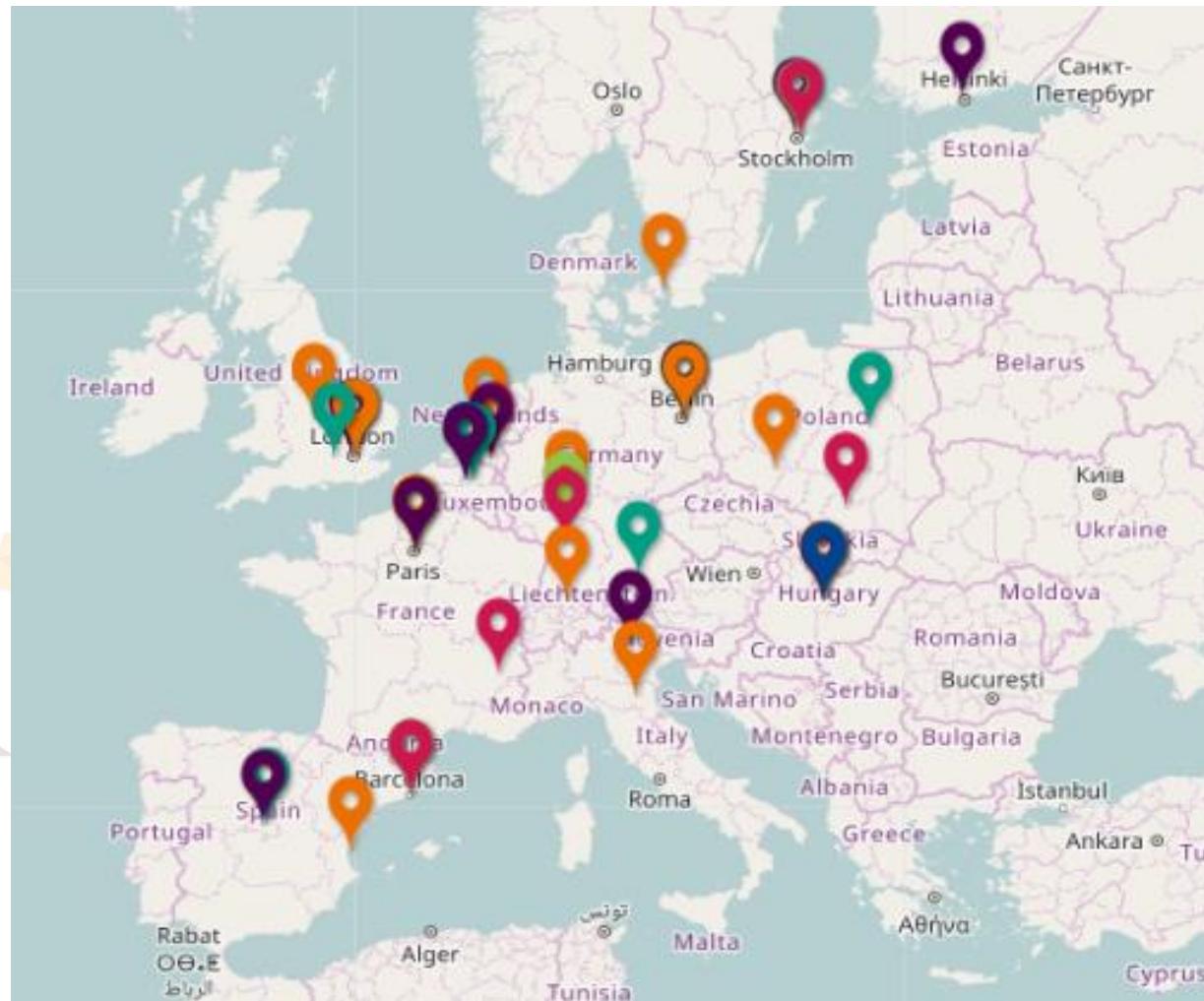
EIT Raw Materials



EIT InnoEnergy

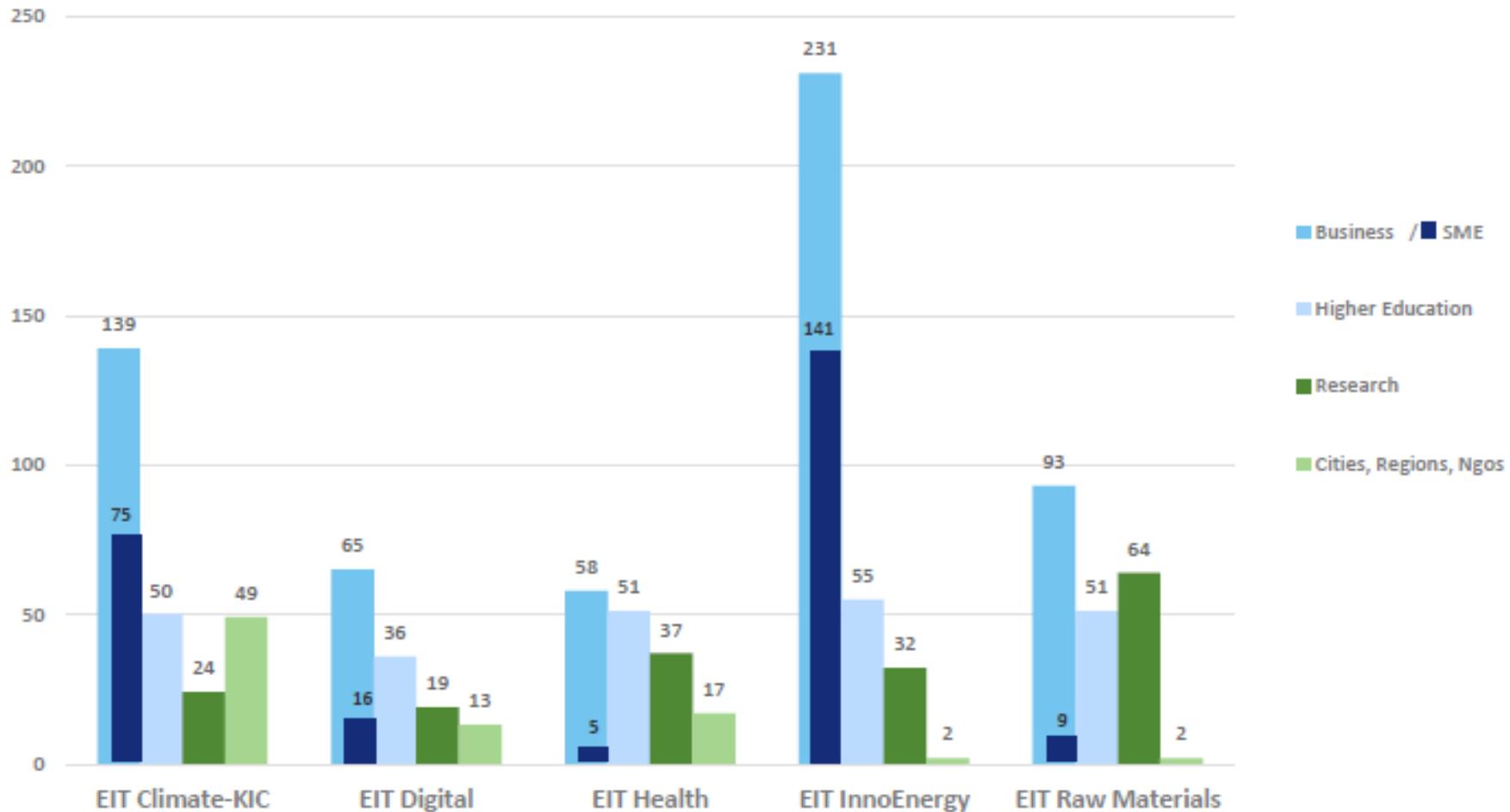


EIT Food



# KICs, Knowledge and Innovation Communities

Today, the EIT Community brings together more than **1000 partners**:



# KICs, Knowledge and Innovation Communities

Algunos partners con distintos perfiles...



UNIVERSITAT POLITÈCNICA  
DE CATALUNYA  
BARCELONATECH



PHILIPS  
sense and simplicity

Inria  
INVENTORS FOR THE DIGITAL WORLD



TNO innovation  
for life

SIEMENS

GDF SUEZ



THALES



Imperial College  
London



KU LEUVEN



# KICs, Knowledge and Innovation Communities

Qué tipo de actividades se realizan?

## 1. Education → Innovation talent

- Master and doctoral programmes/ schools
- Executive training and post-doctoral education
- Continuous professional development courses/ modules
- Learning modules
- Alumni Activities

**Strong business involvement:** programme design, internships, study visits. lecturers. co-supervisors, selection of students, business projects

**EIT Label for excellent educational programmes at Master & PhD levels**

## 2. Business development & entrepreneurship

- Business mentoring/coaching
- Market assessment
- Access to finance/VCs
- Access to networks
- Challenge led competitions



**Examples:** Climate KIC Market Accelerator, EIT ICT Labs Business Development Accelerator, KIC InnoEnergy Highway, EIT Awards, EIT Roundtable of Entrepreneurs

# KICs, Knowledge and Innovation Communities

Qué tipo de actividades se realizan?

## 3. Innovation:

- Testing facilities & simulation tools
- Demonstration actions
- IPR and patent support

The screenshot shows the homepage of the EIT RawMaterials website. At the top, there is a navigation bar with links for INNOVATION, BUSINESS CREATION, ACADEMY, NEWS, EVENTS (which is underlined), SUCCESS STORIES, and ABOUT US. Below the navigation bar, there is a large blue banner featuring a close-up image of a mineral specimen. On the left side of this banner, the text "Developing raw materials into a major strength for Europe." is displayed in white. On the right side, there is a vertical list of events: RAW MATERIALS SUMMIT 2019, EXPERT FORUM MOBILITY, PDAC 2019, RAW MATERIALS WEEK, and INNOVEIT. A red dashed circle highlights the "EVENTS" link in the navigation bar.

eit RawMaterials  
Connecting matters

INNOVATION BUSINESS CREATION ACADEMY NEWS EVENTS SUCCESS STORIES ABOUT US

RAW MATERIALS SUMMIT 2019

EXPERT FORUM MOBILITY

PDAC 2019

RAW MATERIALS WEEK

INNOVEIT

Developing raw materials into a major strength for Europe.

World's largest innovation community in the raw materials sector.

## Beyond 2021, 4 new potential thematic areas

- Security, resilience and defence
- Inclusion, integration and migration
- Water, marine and maritime
- Culture, cultural heritage and creative industries
- + Out of the box approach



**Más allá de 2020....**



# Commission proposal for **Horizon Europe**

THE NEXT EU RESEARCH & INNOVATION  
PROGRAMME (2021 – 2027)

#HorizonEU



# Join Now!

#InvestEUresearch

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

Participant Portal

<http://ec.europa.eu/research/participants/portal/>



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