

# HORIZON EUROPE

Programa Marc de Recerca i Innovació  
2021-2027

Aïda Díaz – 4 Desembre 2020  
-Universitat de Girona-



HR EXCELLENCE IN RESEARCH



Generalitat de Catalunya  
**Departament d'Empresa  
i Coneixement**



**Agència  
de Gestió  
d'Ajuts  
Universitaris  
i de Recerca**

# Agència de Gestió d'Ajuts Universitaris i de Recerca (AGAUR)



Atorgament i gestió de  
beques a estudiants  
universitaris i ajuts  
competitius de recerca i  
innovació



Adscrit a la Secretaria  
d'Universitats i Recerca,  
Departament d'Empresa i  
Coneixement de la  
Generalitat de Catalunya



Promou:

- Atracció de talent
- Projectes de Recerca i Innovació
- Valorització i transferència de coneixement
- Participació en programes europeus i Internacionals de Recerca i innovació
- Internacionalització del Sistema català de Recerca i innovació

# Índex

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- Horizon Europe-principals novetats
- Qui és qui en els programes marc de R+I de la CE.
- Configuració del programa (aspectes de lobby).
- Ciències Socials i Humanitats a Horizon Europe

# Horizon Europe

*Programa de finançament de la Recerca i Innovació de la UE*



€ 85 Mil Millions  
(Acord Nov.2020)



**Visió: Un futur sostenible, just i pròsper per a les persones i el planeta basat en els valors europeus**

## **Evolució i no revolució**

- ✓ Millorar la qualitat de **vida de les persones** i donar resposta a les **prioritats dels ciutadans**
- ✓ Contribuir a la construcció d'una **economia basada en el coneixement i la innovació** per a sortir de la crisi.
- ✓ Convertir els **avanços científics** en **productes i serveis**.
- ✓ Fomentar la **innovació, la competitivitat i l'ocupació a Europa**.
- ✓ Reforçar la **posició global** de la UE en recerca, innovació i tecnologia.
- ✓ Combatre el **canvi climàtic** (objectiu pressupostari del 35%)
- ✓ Contribuir a assolir els **Objectius de Desenvolupament Sostenible** de Nacions Unides

# Horizon Europe

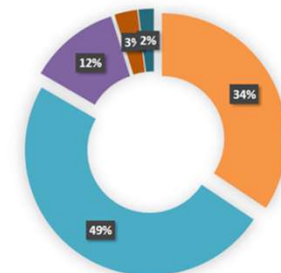
## Presupuesto Horizonte Europa: lo que sabemos

PILAR 1 – CIENCIA EXCELENTE	23.297	PILAR 2 - RETOS MUNDIALES Y COMPETITIVIDAD INDUSTRIAL EUROPEA	47.179	PILAR 3 – INNOVACIÓN ABIERTA	11.866
ERC - Consejo Europeo de Investigación	14.861	Clúster 1 - Salud	6.893	EIC- Consejo Europeo de Innovación	8.752
MSCA - Acciones Marie Skłodowska-Curie	6.288	Clúster 2 - Cultura, creatividad y sociedad inclusiva	1.253,5	Ecosistemas de innovación europea	448
Infraestructuras de investigación	2.149	Clúster 3 - Seguridad	1.253,5	EIT - Instituto Europeo de Innovación y Tecnología	2.686
		Clúster 4 - Digital, industria y espacio	13.429		
		Clúster 5 - Clima, energía y movilidad	13.429		
		Clúster 6 - Alimentación, bioec. recursos naturales, agricultura y MA	8.952		
		JRC – Centro Común de Investigación	1.970		
<b>Ampliar la Participación y Fortalecer el Espacio Europeo de Investigación</b>	<b>3.181</b>				
Ampliar la participación y difundir la excelencia	2.823				
Reformar y mejorar el sistema europeo de la I+i	358				

+ 5.000 M€ Next Generation EU

+ 4.000 M€ (acuerdo político MFP)

- Open Science
- Global Challenges
- Open Innovation
- Strengthening ERA





2019  
EU COMMISSION  
CONGRATULATIONS!

PRESIDENT



**Ursula Von der Leyen**  
GERMANY

“ I am convinced: if we close the gaps between us, we will emerge stronger as a Union ”

**Key Priorities**

- A European Green Deal
- An economy that works for people
- A Europe fit for the digital age
- A new push for European democracy
- A stronger Europe in the world
- Promoting our European way of life

@EuropeAnalytica  
www.europe-analytica.com  
info@europe-analytica.com

# A destacar...

**A Union that strives for more**

**My agenda for Europe**

*By candidate for President of the European Commission*

**Ursula von der Leyen**



**POLITICAL GUIDELINES FOR THE NEXT  
EUROPEAN COMMISSION 2019-2024**

## Delivering on the transitions and the recovery

- Europe faces **societal, ecological and economic challenges**, aggravated by **#coronavirus** → it is high time to retool ERA so that it delivers on **Europe's recovery** to:



### Accelerate the twin transition

and new solutions in areas such as the decarbonisation of industry or sustainable mobility

**Pacte Verd**



### Strengthen resilience and crises preparedness

health, digital, socio-economic and climate R&I are essential

**Pla de recuperació**



### Support Europe's competitive edge

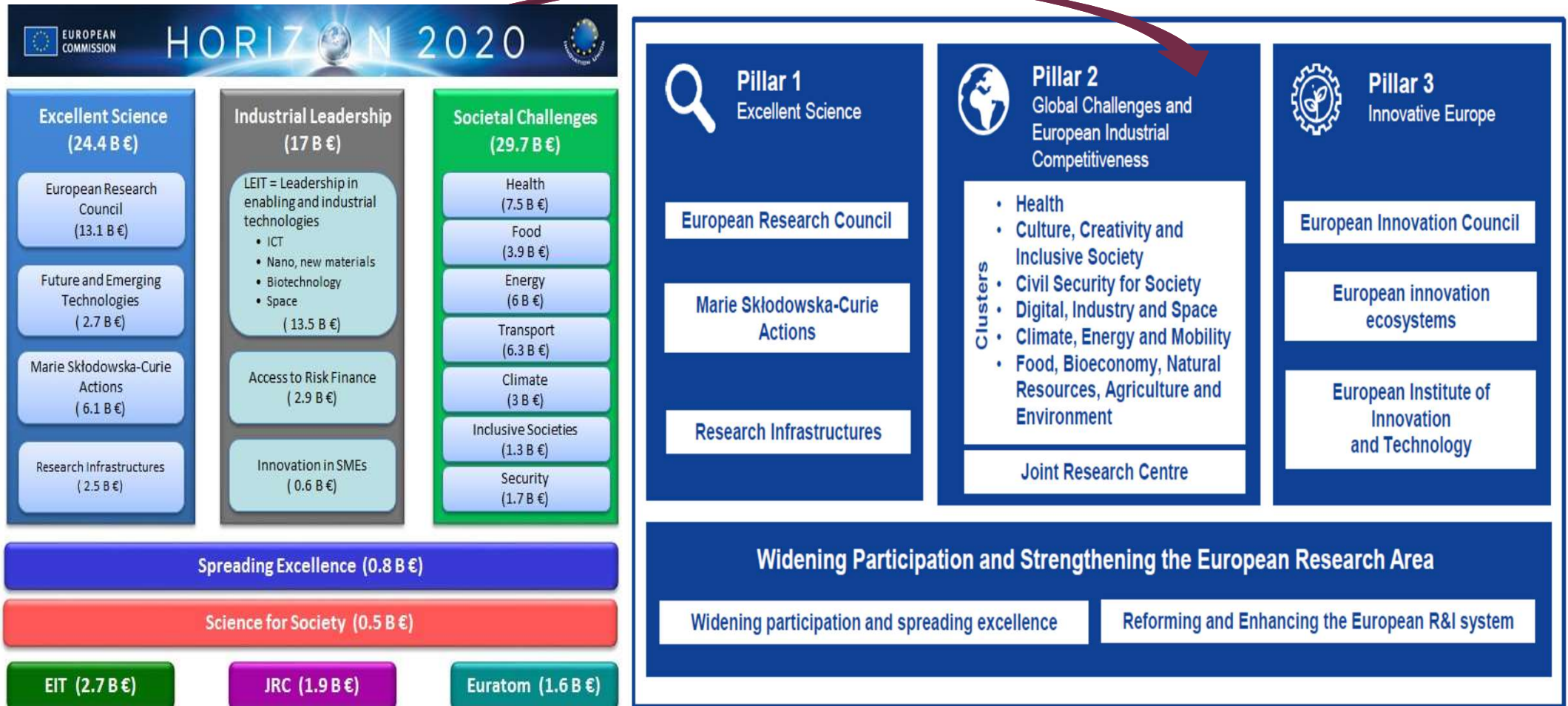
in the global race for knowledge and tech sovereignty in cybersecurity, space, AI, 5G and e-mobility

**Digitalització**



- Careers of researchers
- Researchers' mobility & attracting talent
- Strengthening the innovation ecosystem
- Cooperation academia-industry
- R&I infrastructures

# Programme Structure





## Lliçons apreses (Avaluació Intermèdia H2020)



Potenciar una innovació trencadora/revolucionària



### European Innovation Council

Support to innovations with breakthrough and disruptive nature and scale up potential that are too risky for private investors (**70% of the budget earmarked for SMEs**)

**European Innovation Council**  
– a one-stop-shop

Helping innovators create markets of the future, leverage private finance, scale up their companies. Innovation centric, risk taking & agile, proactive management and follow up

Two complementary instruments bridging the gap from idea to investable project

**Pathfinder: grants**  
(from early technology to pre-commercial)

**Accelerator: grants only & blended finance**  
(from pre-commercial to market & scale-up)

*FET Open i Instrument PYMES (1era fase).*

*A partir experiència Instrument PYMES (2 i 3 fase).*



***European Innovation Council***

Per a tots aquells que vulguin portar ràpidament un **producte al mercat!**

Tot tipus d'entitats (focalitzat empreses i emprenedors)

***Activitats de suport: EIC Business acceleration services; EIC fellowships; EIC Challenges; EIC Innovative Procurement; ....***

**European Innovation Council:** “one stop shop to bring the most promising ideas from lab to real world application and support the most innovative start-ups and companies to scale up their ideas”.

**Implementació (similar ERC) EIC Board; EIC programme management**

**Explorador (Pathfinder) (primeres fases)**

- ✓ De tecnologia emergent a pre-comercial.
- ✓ A partir experiència FET Open i Instrument PYMES (1era fase).
- ✓ Bottom-up i top-down
- ✓ Subvencions

**Accelerador (fases avançades).**

- ✓ Des de pre-comercial fins arribar al mercat i “scale-up”
- ✓ A partir experiència Instrument PYMES (2 i 3 fase).
- ✓ Bottom-up; high technological risks.
- ✓ Subvencions, prestems, inversors, etc

**Activitats de suport: EIC Business acceleration services; EIC fellowships; EIC Challenges; EIC Innovative Procurement; ....**

# HORIZON RESULTS PLATFORM

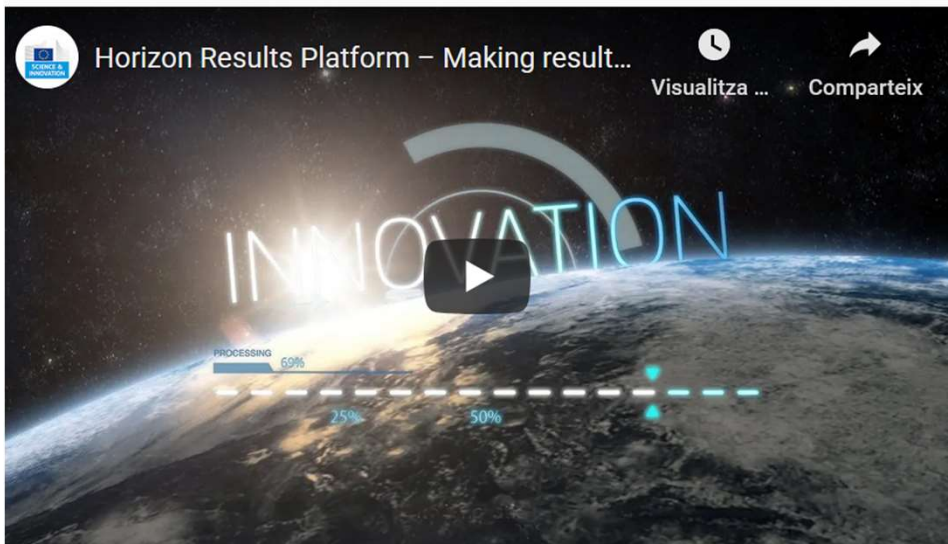
MAKING RESULTS MATTER

“Turning Europe's research results into innovations which generate value for economy, society and contribute to a sustainable future.”

 Need help?

— LAB – FAB – APP Investing in the European future we want

[Enllaç Plataforma](#)



Welcome to the Horizon Results Platform! Whether you are a policy-maker, an investor, an entrepreneur, a researcher, an innovation, legal, business development or financing expert, or any interested citizen, this is the place where you can discover the wealth of EU-funded research results and get in contact with their creators!

Can you play a role in **making their results matter**? Contact them now and find out more about their results, their needs and plans for the future, or form partnerships and invest in them!

## News

24 Sep, 2020

**Happy First Birthday Horizon Results Platform! - Praise from Commissioner Gabriel!**

Join us today to celebrate the first anniversary of the Horizon Results Platform, and to do so with ...

15 Sep, 2020

**Horizon Results Platform – Making results matter’ – Join us at the EU R&I Days!**

We are happy to announce that the Horizon Results Platform will host a workshop during the EU R&I Days...


### Policy related results

 Results likely to influence policy

 Results by contribution to UN SDGs

### On the path to innovation

 Looking for funding, loans, or investments

 Looking for help on the way to market

### Advancing the research and technology

 Looking for technical or infrastructure help or fellowship

 Looking for collaboration

## Lliçons apreses (Avaluació Intermèdia H2020)



Crear més impacte a través d'una orientació en missions i la involucració dels ciutadans



## Principals Novetats a Horizon Europe

**R&I Missions**



### R&I Missions

**R&I Missions**

Relating EU's research and innovation better to society and citizens' needs; with strong visibility and impact

A mission is a portfolio of actions across disciplines intended to achieve a **bold and inspirational and measurable goal** within a set timeframe, with **impact** for society and policy making as well as relevance for a significant part of the European population and wide range of European citizens.

Horizon Europe defines mission characteristics and elements of governance, and 5 missions areas.

Specific missions will be programmed within the Global Challenges and European Industrial Competitiveness pillar (drawing on inputs from other pillars)



*Mazzucato Report on missions*

[Link to Missions Document & Horizon Europe Proposal](#)

## Adaptation to climate change, including societal transformation



Source: [https://ec.europa.eu/info/files/horizon-europe-investing-shape-our-future\\_en](https://ec.europa.eu/info/files/horizon-europe-investing-shape-our-future_en)

Mission Board Members:

[https://ec.europa.eu/info/sites/info/files/research\\_and\\_innovation/strategy\\_on\\_research\\_and\\_innovation/documents/ec\\_rtd\\_members-mission-boards\\_072019.pdf](https://ec.europa.eu/info/sites/info/files/research_and_innovation/strategy_on_research_and_innovation/documents/ec_rtd_members-mission-boards_072019.pdf)

- **Conquering Cancer: Mission Possible**

Targets by 2030: more than 3 million more lives saved, living longer and better, achieve a thorough understanding of cancer, prevent what is preventable, optimise diagnosis and treatment, support the quality of life of all people exposed to cancer, and ensure equitable access to the above across Europe.

- **A Climate Resilient Europe - Prepare Europe for climate disruptions and accelerate the transformation to a climate resilient and just Europe by 2030**

Targets by 2030: prepare Europe to deal with climate disruptions, accelerate the transition to a healthy and prosperous future within safe planetary boundaries and scale up solutions for resilience that will trigger transformations in society.

- **Mission Starfish 2030: Restore our Ocean and Waters**

Targets by 2030: cleaning marine and fresh waters, restoring degraded ecosystems and habitats, decarbonising the blue economy in order to sustainably harness the essential goods and services they provide.

- **100 Climate-Neutral Cities by 2030 - by and for the citizens**

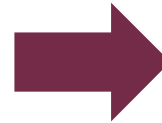
Targets by 2030: support, promote and showcase 100 European cities in their systemic transformation towards climate neutrality by 2030 and turn these cities into innovation hubs for all cities, benefiting quality of life and sustainability in Europe.

- **Caring for Soil is Caring for Life**

Targets by 2030: at least 75% of all soils in the EU are healthy for food, people, nature and climate. The proposed mission combines research and innovation, education and training, investments and the demonstration of good practices using “Living labs” (experiments and innovation in a laboratory on the ground) and “Lighthouses” (places to showcase good practices).

## Lliçons apreses (Avaluació Intermèdia H2020)

✓ Racionalitzar el panorama de finançament



## Principals Novetats a Horizon Europe

**Nova Aproximació als Partenariats**

Nova generació de partenariats amb objectius focalitzats i més ambiciosos que recolzin objectius polítics de la UE

Principals Característiques

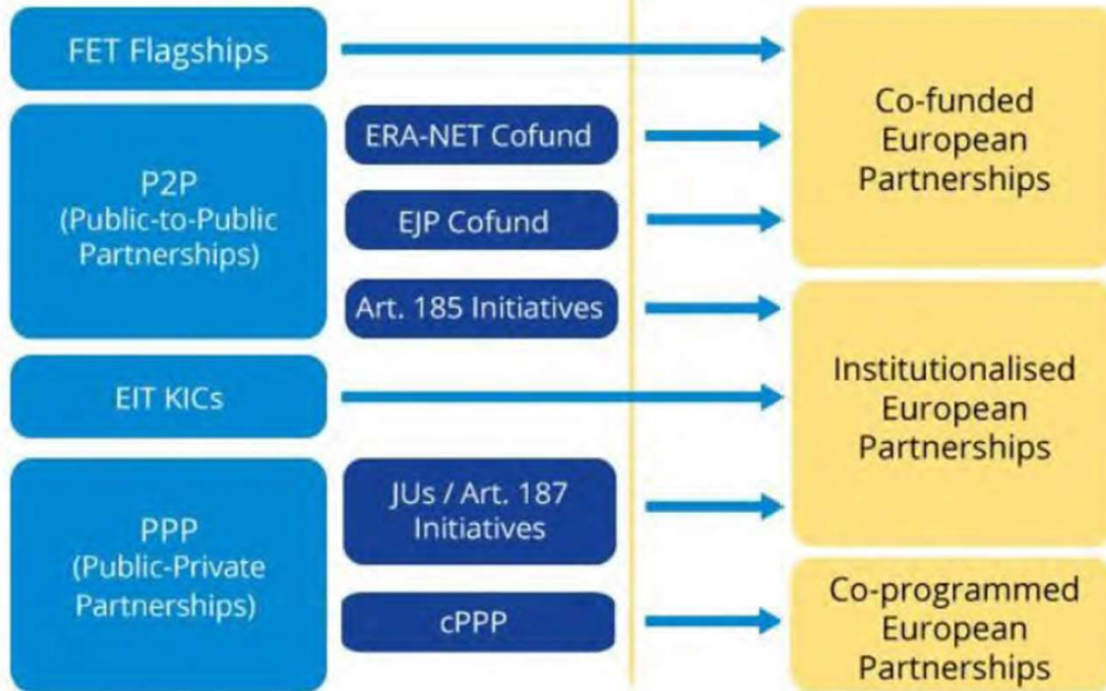
- Una arquitectura i eines més senzilles
- Menys nombre i amb major impacte
- Sota un mateix paraigües per incrementar la visibilitat.
- Valor afegit a Horizon Europe
- Obertura i augment de la participació d'altres actors i sectors
- Major coherència amb HE i Missions

X JPI; PPP; JTI; KICS; JU; ERANET COFUND; etc

✓ Research and Innovation Actions (RIA); Innovation Actions (IA); Support and Reserach actions (CSA); Other (ERC grants, MSCA, ERANET COFUND, etc)

## Horizon 2020

## Horizon Europe



### Co-programmed

Based on Memoranda of Understanding / contractual arrangements; implemented independently by the partners and by Horizon Europe

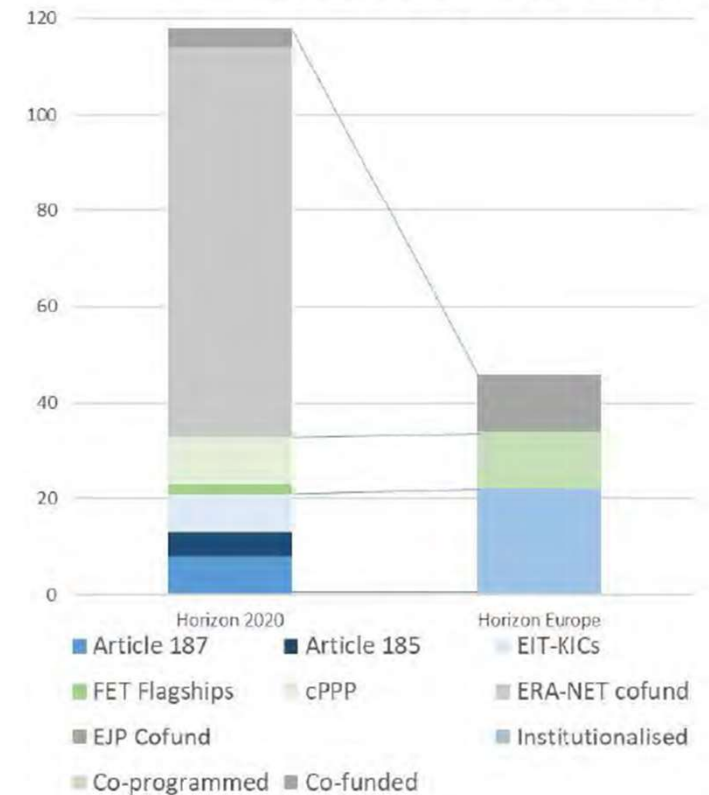
### Co-funded

Based on a joint programme agreed by partners; commitment of partners for financial and in kind contributions & financial contribution by Horizon Europe

### Institutionalised

Based on long-term dimension and need for high integration; partnerships based on Articles 185 / 187 of TFEU and the EIT-Regulation supported by Horizon Europe

## Number of Partnerships





## European Partnerships in Horizon Europe

Types of partnerships, how partnerships are being identified, candidates for partnerships, contact details, impact assessments.

### PAGE CONTENTS

Types of partnership

Identifying partnerships

Partnership candidates and contact details

## Types of partnership

The aim of European partnerships with EU and associated countries, the private sector, foundations and other stakeholders is to deliver on global challenges and modernise industry.

The Horizon Europe proposal lays down the conditions and principles for establishing European Partnerships. There are 3 types.

### Co-programmed European Partnerships

These are partnerships between the Commission and private and/or public partners. They are based on memoranda of understanding and/or contractual arrangements.

### Co-funded European Partnerships using a programme co-fund action

Partnerships involving EU countries, with research funders and other public authorities at the core of the consortium.

### Institutionalised European Partnerships

These are partnerships where the EU participates in research and innovation funding programmes that are undertaken by EU countries.

These partnerships require legislative proposals from the Commission and are based on a Council Regulation ([Article 187](#)) or a Decision by the European Parliament and Council ([Article 185](#)). They are implemented by dedicated structures created for that purpose.

Institutionalised partnerships will only be implemented where other parts of the Horizon Europe programme, including other types of partnership, would not achieve the desired objectives or expected impacts.

[EIT Knowledge and Innovation Communities](#) (KICs) are also institutionalised partnerships. EIT KICs aim to address skills shortages and are already established under Horizon 2020. Key partners in EIT KICs are higher education institutions, research organisations, companies and other stakeholders.

[Enllaç](#)

## Portfolio of current candidates for European Partnerships (48)



## Partnership candidates and contact details

The current list of candidate European Partnerships is found in Annex 7 of the [Orientations towards the first Strategic Plan for Horizon Europe](#).

Results from the structured consultation of EU countries are summarised in the report [European Partnerships under Horizon Europe: results of the structured consultation of Member States](#)

The partnership candidates are collected across 5 areas.

Full details of candidates, draft proposal documents and contact details below.

- [health](#)
- [digital, industry and space](#)
- [climate, energy and mobility](#)
- [food, bioeconomy, natural resources, agriculture and environment](#)
- [partnerships across themes](#)

## Lliçons apreses (Avaluació Intermèdia H2020)



**Potenciar la  
Cooperació  
Internacional**



## Principals Novetats a Horizon Europe

**Estendre les  
possibilitats  
d'associació**



### International Cooperation

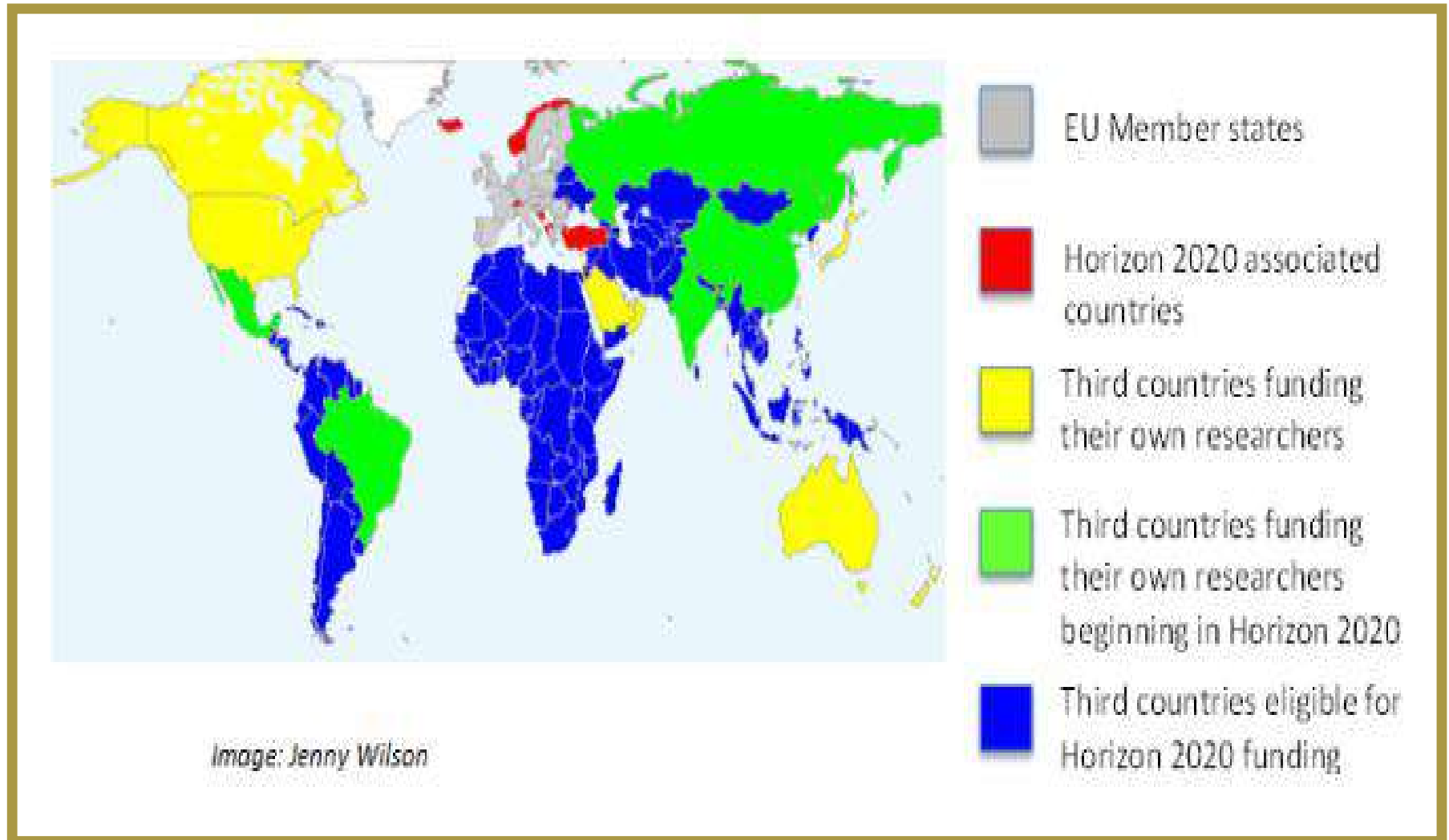
**International  
Cooperation**

Tackling together global societal challenges; access to the world's best talents, expertise and resources; enhanced supply and demand of innovative solutions

#### Extended openness to association

- Third countries with good capacity in science, technology and innovation
- Taking into account objective of driving economic growth in Europe through innovation
- General opening for international participation
- Intensified targeted actions (flagship initiatives, joint calls, etc.)

## Cooperació Internacional-finançament a Horizon 2020



- Gris, vermell i blau: automàticament elegible per finançament.
- Blau i verd: no automàticament elegible per finançament amb excepcions (imprescindible per desenvolupar el projecte, convocatòria ho indica; o convocatòries coordinades entre països.

## Lliçons apreses (Avaluació Intermèdia H2020)



Reforçar l'Obertura



## Principals Novetats a Horizon Europe

Política de Ciència Oberta



### Open Science across the programme

#### Open Science

Better dissemination and exploitation of R&I results and support to active engagement of society

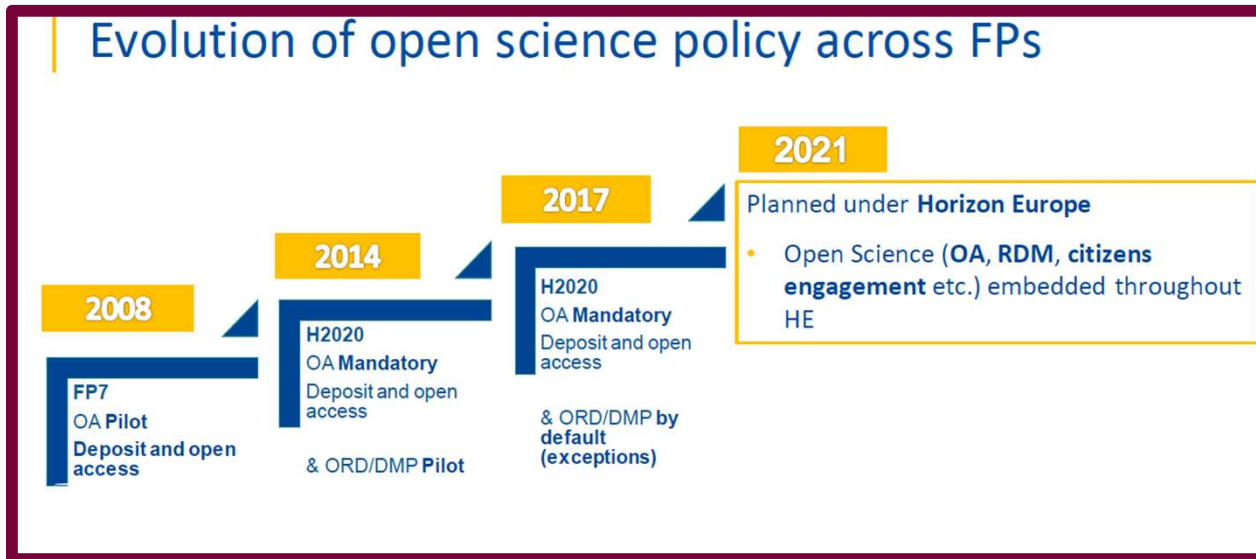
**Mandatory Open Access to publications:** beneficiaries shall ensure that they or the authors retain sufficient intellectual property rights to comply with open access requirements

**Open Access to research data ensured:** in line with the principle "as open as possible, as closed as necessary"; Mandatory Data Management Plan for FAIR (Findable, Accessible, Interoperable, Re-usable) and Open Research Data

- Support to researcher skills and reward systems for open science
- Use of European Open Science Cloud



# Accés Obert - As open as possible as closed as necessary



- **Immediate open access** through **trusted repository** (at the latest at the time of publication)
- **No opting out** of Research Data Management. Projects generating research data **MUST manage their data** responsibly and in line with FAIR principles
- **Exceptions to open access** (duly justified in the DMP; legitimate interests or constraints)

## Open Research Europe

- Enables researchers to publish any research they wish to share, supporting reproducibility, transparency and impact.
  - Uses an open research publishing model: publication within days of submission, followed by open invited peer review.
  - Includes citations to all supporting data and materials, enabling reanalyses, replication and reuse.
- LEARN MORE >



### Benefits for Researchers

- Optional service with no author fees, no administrative burden and automatic compliance with open access requirements.

### Benefits for Research

- Rapid open access publication enables others to build upon new ideas right away, wherever and whoever they are.

### Benefits for Society

- Maximises the value and impact of Horizon 2020 projects by enabling publication of all aspects of Commission funded research.

## Rapid & Transparent Publishing

Fast publication and open peer review for research stemming from Horizon 2020 funding across all subject areas.

[Enllaç](#)

## Participació ciutadana – *Public engagement*

- Participació de tots els actors involucrats i la societat civil en totes les fases de la investigació:
  - ✓ Definició de l'agenda de recerca.
  - ✓ En el disseny i desenvolupament de la investigació (foment engagement, co-creació, etc); convocatòries de propostes.
- Integració de la societat en el contingut de la recerca i innovació.
- Ciència Ciutadana

***Ciència Ciutadana;  
Accions Mutual Learning  
Actions; Multi-actor  
Approach; Co-Creation;  
Cross-fertilisation; End-  
user; Outreach activities;  
etc***

### Quàdruple Hèlix



## Lliçons apreses (Avaluació Intermèdia H2020)

## Principals Novetats a Horizon Europe



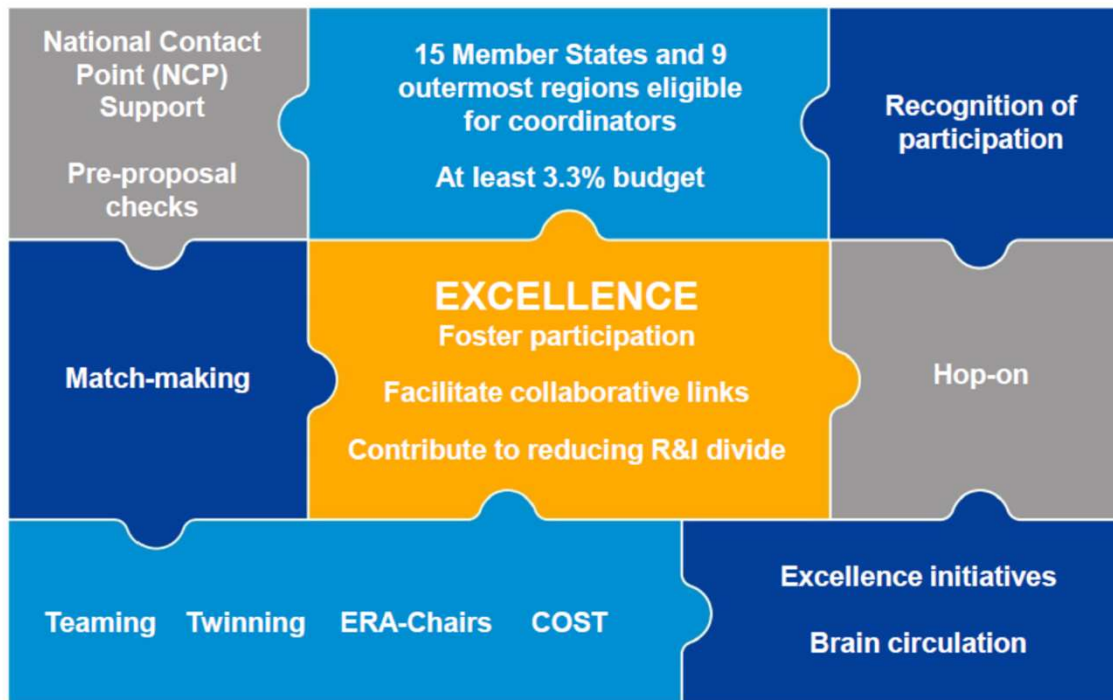
Fomentar la participació



Spreading excellence

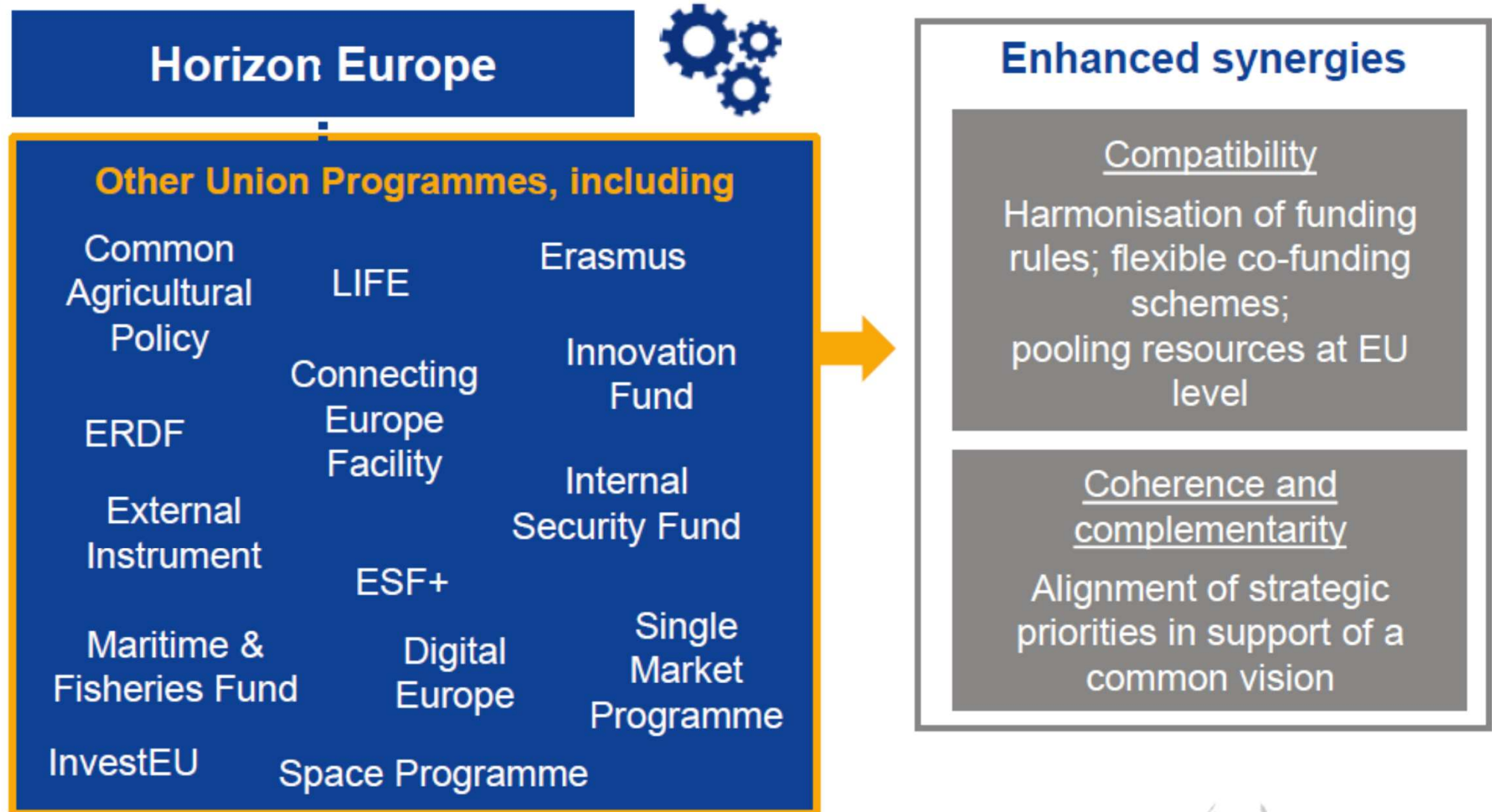


Widening participation/spreading excellence



3,3%  
Horizon Europe  
Budget

# Sinergies amb altre programes de la UE





# Normes de participació

## Harmonisation & standardisation

- Harmonise the contractual models and guidance for all post-2020 programmes
- Build on the standardisation of post-2020 basic acts

## Consistent interpretation

- Use the same terminology across programmes
- Ensure uniform and consistent interpretation of rules
- Allow equal treatment of beneficiaries
- Create synergies between programmes

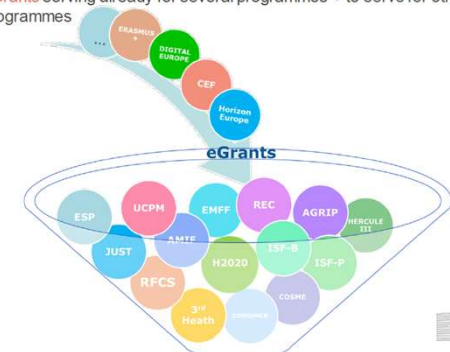
## Integration of programme specifics

- Allow for encompassing the specifics of programme
- Specific options and specific annex with 'special rules'

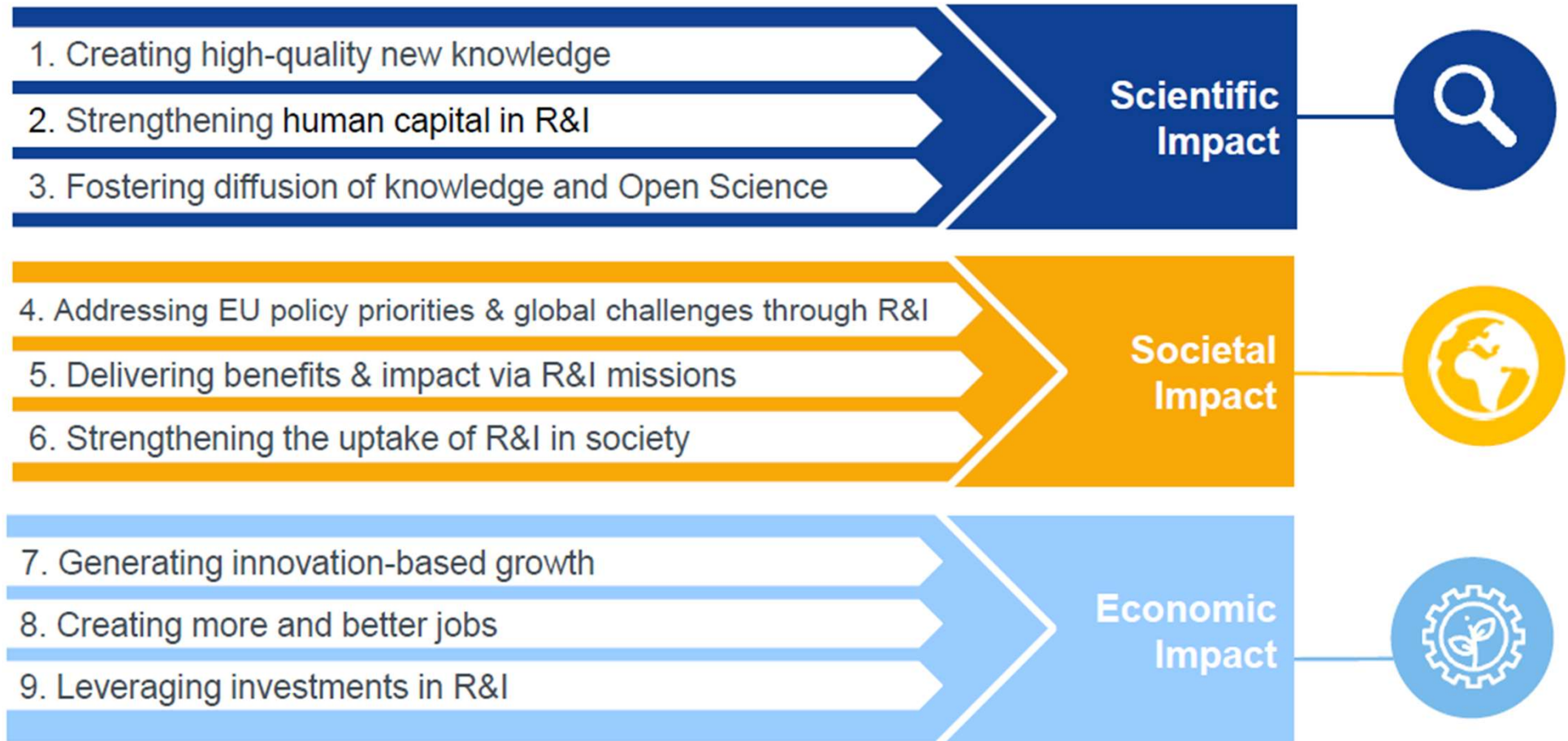
- Mateixa base de Contracte
- Armonitzar terminologia

### A bit of background...

- Numerous Model Grant Agreements (MGAs): paper-based or electronically-managed ('eGrants')
- eGrants serving already for several programmes + to serve for other programmes



# Key impact pathways to track progress



**Impacte més sistèmic**

Horizon  
Europe  
Legislative  
package

Strategic Plan  
2021-2024

Work  
programme  
2021-2022

Annual Call for  
proposals

**The Strategic Planning Process:  
Transformatory agenda to be set in gear through Horizon Europe**



**Previsió HE:**

- Aprovació 30  
Marc 2021
- Primeres  
convocatòries  
Abril 2021

## Horizonte Europa: desde la Base Legal....



### WP:

- ✓ Destination (Impacte esperat)
- ✓ Topic: expected outcomes; scope)

## Cluster 2

## INTERVENTION LOGIC

SDGs	SDG 1 (No poverty) SDG 3 (Good Health and Well-being) SDG 4 (Quality Education)	SDG 5 (Gender Equality) SDG 8 (Decent Work and Economic Growth) SDG 10 (Reduced Inequalities)	SDG 11 (Sustainable Cities and Communities) SDG 12 (Responsible Consumption and Production) SDG 16 (Peace, Justice, and Strong Institutions)			
EC PRIORITIES	EUROPEAN GREEN DEAL	EUROPE FIT FOR DIGITAL AGE	NEW PUSH FOR EUROPEAN DEMOCRACY	STRONGER IN THE WORLD	AN ECONOMY THAT WORKS FOR PEOPLE	PROTECT OUR EUROPEAN WAY OF LIFE
KEY STRATEGIC ORIENTATION(S) FOR R&I	KSO A: Promoting an open strategic autonomy by leading the development of key digital and enabling technologies, sectors and value chains		KSO D: Creating a more resilient, inclusive and democratic European society			
IMPACT AREAS	Competitive and secure data-economy	High quality digital services for all	A resilient EU prepared for emerging threats	A secure and open EU society	Inclusive growth and new job opportunities	
MAIN CHALLENGE	<p><i>Cultural heritage is facing huge challenges (climate change, pollution, natural or man-made disasters, looting and illicit trafficking, lack of finance or insufficient valorisation). Europe's cultural production lags behind in international competitiveness despite its high quality and quantity.</i></p>		<p><i>Democracies are more fragile and more vulnerable than in the past. Levels of trust in the political institutions of democracy are in decline. Multilateral global governance is under historic stress.</i></p>		<p><i>Raising inequalities, challenges to the EU's employment, education and social, including digital, inclusion policies. Global shocks on economy and labour market. Demographic change and ageing societies. Governance of asylum, migration and integration.</i></p>	
R&I EXPECTED IMPACTS	8. Full potential of cultural heritage, arts and cultural and creative sectors is unleashed		7. Democratic governance is reinvigorated by improving the accountability, transparency, effectiveness and trustworthiness of rule-of-law based institutions and policies		9. Social and economic resilience and sustainability	10. Inclusive growth through evidence-based policies for employment, education, social fairness and inequalities, including in response to the socio-economic challenges due to the COVID-19 pandemic



**Who is Who?  
&  
EU decision making  
procedure & stakeholders  
involved**



## Diàleg a tres

### European Commission

- Develop and implement the European research and innovation policy agreed by the European Parliament and European Council.
- Funds research through multi-annual framework programmes for research (since 1984).
- Implemented through annual work programmes and call for proposals and independent peer review of proposals.

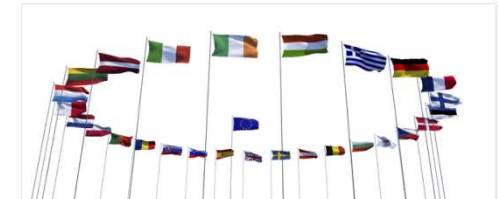
### European Parliament

- Decides EU laws and budget together with Council.
- Regulation establishing the Framework Programme for Research and Innovation approval.
- Work programmes approval
- FP Monitoring + reports
- ITRE Committee

### European Council

- Regulation establishing the Framework Programme for Research and Innovation approval.
- Decides EU laws and budget together with Parliament
- Work programmes approval
- FP Monitoring + reports

Inter-institutional negotiations.



## Diàleg a tres

### Horizonte Europa: Negociación

Junio 2018

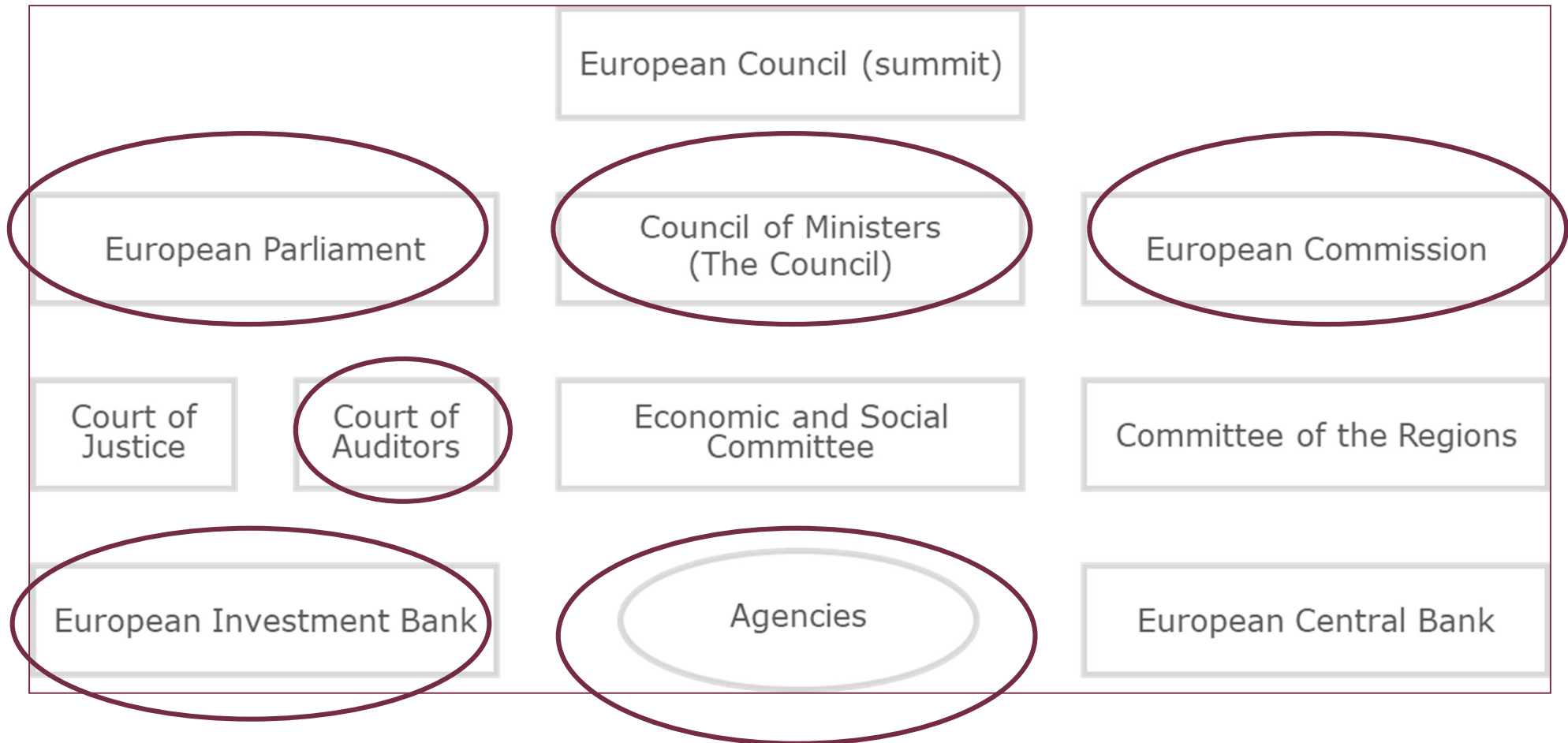


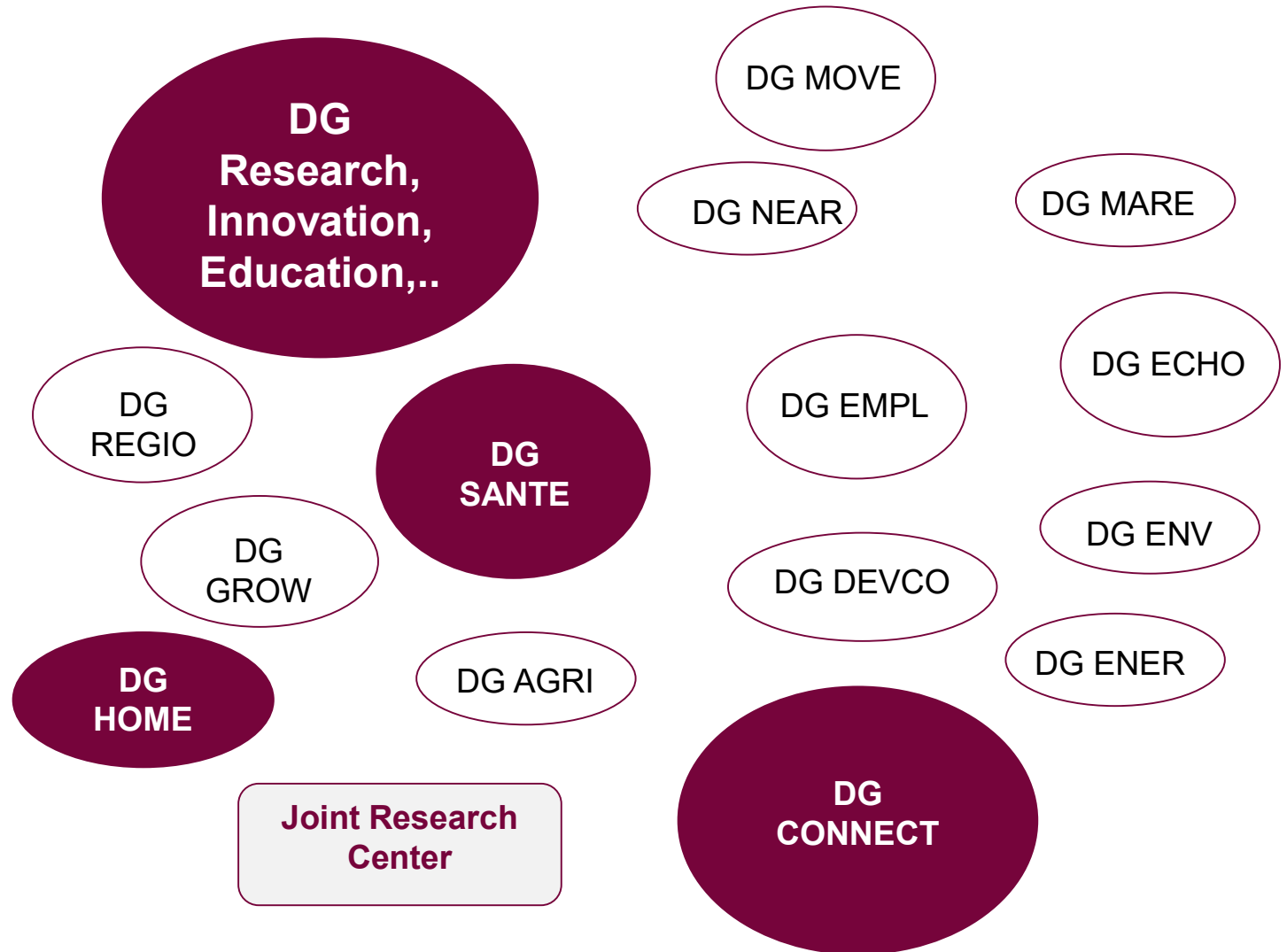
Inter-institutional negotiations.





# EU STRUCTURE





Other policy areas involving research:

[Agriculture and Rural Development](#)  
[Climate Action](#)  
[Digital Single Market](#)  
[Energy](#)

[Internal Market, Industry, Entrepreneurship and SMEs](#)  
[Mobility and Transport](#)  
[Regional policy](#)  
[Security](#)

[Environment](#)

# Co-creation within the Commission

Cluster	Co-Chairs	Co-creating DGs
<b>Cluster 1 - Health</b>	RTD, SANTE	RTD, SANTE, AGRI, BUDG, CLIMA, CNECT, COMM, COMP, DEVCO, DGT, DIGIT, EAC, EASME, ECFIN, ECHO, EEAS.SG, EMPL, ENER, ENV, EPSC, ERCEA, ESTAT, FISMA, FPI, GROW, HOME, JRC, MARE, MOVE, NEAR, REA, REGIO, SJ, TAXUD, TRADE
<b>Cluster 2 Culture, creativity and inclusive society</b>	EAC, EMPL, RTD	HOME, RTD, CNECT, EMPL, JUST, GROW, AGRI, CLIMA, EAC, ECHO, ENER, ENV, MARE, MOVE, REGIO, SANTE, TAXUD, REA, JRC
<b>Cluster 3 – Civil security for society</b>	CNECT, HOME, RTD	HOME, CNECT, RTD, AGRI, CLIMA, DEVCO, EAC, ECHO, ENER, ENV, GROW, JRC, JUST, MARE, MOVE, REGIO, SANTE, TAXUD, REA, EEAS
<b>Cluster 4 – Digital, industry and space</b>	GROW, RTD, CNECT	CNECT, RTD, GROW, AGRI, CLIMA, COMP, DEVCO, DIGIT, DGT, EAC, ECFIN, ECHO, EMPL, ENER, ENV, HOME, JRC, JUST, MARE, MOVE, NEAR, REGIO, SANTE
<b>Cluster 5 - Climate, energy and mobility</b>	CLIMA, ENER, MOVE	CNECT, HOME, GROW
<b>Cluster 6 – Food, bioeconomy, natural resources, agriculture, environment</b>	AGRI, RTD	RTD, AGRI, CLIMA, ENER, ECHO, ENV, MARE, DEVCO, REGIO, MOVE, JRC-ISPRA, GROW, EASME, REA, EAC, HOME, SANTE, CNECT, EAC, REGIO

## European Commission 2014-2019

**DG RESEARCH &  
INNOVATION**

**DG CONNECT (ICT)**

**DG Culture and Education**

...



*Carlos Moedas*

## 2019-2024

**DG Innovation, Research,  
Culture, Education and  
Youth**

- DG Research and Innovation
- DG Culture and Education
- Joint Research Center

...



*Mariya Gabriel*

# Research Executive Agency (REA)



In H2020

- Marie Skłodowska-Curie actions
- FET
- Space research
- Food security, sustainable agriculture and forestry, marine, maritime and inland water research and Bioeconomy
- Innovative, inclusive and reflective societies
- Secure societies
- Spreading Excellence and Widening participation & Science with and for Society

**In Horizon Europe → Renamed into European Research Executive Agency!!!!**

- Marie Skłodowska-Curie actions
- Cluster -1 “Health”
- Cluster - 2 part of Heritage related & Hazards
- Cluster – 3 “Civil Societies”
- Cluster – 6 “Food Security”
- Part of Agri of CHAFEA (the one named “Promotion of Agriculture Products“)
- Spreading Excellence and Widening participation & Science with and for Society
- Research Fund for Coal and Steel
- Research Infrastructures
- Reforming EU research and innovation

**DRAFT**

# Executive Agency for Small and Medium-sized Enterprises (EASME)

In H2020

- COSME programme (Competitiveness of Enterprises and SMEs) → Including Enterprise EU Network (EEN)
- Pilar - II of “Societal Challenges”
  - The Energy Efficiency part of the challenge ‘Secure, Clean & Efficient Energy’;
  - The Societal Challenge 5 ‘Climate action, Environment, Resource Efficiency and Raw Materials’
- Pilar – III of “Industrial leadership” → EIC – Pilot (SMEs Instrument & FTI)
- Services such as European IPR Helpdesks, INNOVACESS and Peer learning for innovation agencies.
- The Sustainable Industry Low Carbon Scheme (SILC II)
- INNOSUP
- Part of the EU programme for the Environment and Climate action, LIFE+
- Part of the European Maritime and Fisheries Fund, EMFF
- The legacy of the Intelligent Energy – Europe programme and the Eco-innovation initiative



In **Horizon Europe** → **Will change of name as well! DG-Connect will be the parent DG.**

- Cluster – 4 “Digital, European Industry & Space”
- Digital Europe Programme (DEP) & CEF - Telecom
- Creative Industries
- Part of eHealth from CHAFEA (transferred from LUX to BRU)



# Innovation & Networks Executive Agency (INEA)

In H2020

- Connecting Europe Facility (CEF)
- Parts of Horizon 2020 – Pilar II:
  - Smart, green and integrated transport
  - Secure, clean and efficient energy
- The Innovation Fund

In **Horizon Europe** → Renamed to “**European Climate & Environmental Agency**” (or similar)

- Cluster -5
- Future Life+ Programme
- The Innovation Fund
- CEF – Transport & Energy parts

**DRAFT**

## Otras agencias y servicios de la EC de interés



Health and Food Safety

Stella Kyriakides

**CHAFEA will be back to BRU from LUX and splited!**

### (DG SANTE)

#### Changes for DG SANTE:

- The relevant part of Unit GROW.D.3 (Biotechnology and Food Supply Chain), dealing with pharmaceuticals, moves from DG GROW to DG SANTE
- The relevant part of Unit GROW.D.4 (Health Technology and Cosmetics), dealing with medical devices, moves from DG GROW to DG SANTE

The relevant parts of the Consumers, Health, Agriculture and Food Executive Agency (CHAFEA)

Responsible for relations with:  
Community Plant Variety Office (CPVO)  
European Centre for Disease Prevention and Control (ECDC)  
European Food Safety Authority (EFSA)  
European Medicines Agency (EMA)



# Comitolo - What?

Comitology refers to a set of procedures through which **EU countries control** how the European Commission **implements EU law/programme..**

Broadly speaking, before it can implement an EU measure, the Commission must consult, for the detailed implementing measures it proposes, a **committee where every EU country is represented.**

## Programme Committee:

- Forum of discussion comprising delegations of EU State Members and associated countries and chaired by the Commission.
- Take up an strategic role and **provide opinions on the work programmes themselves** (exception for the ERC).
- One committee per programme.
- Horizon committes are considered management committes.



# Programme Committee

EU Members + Associated



---

Programmee Committee



# Programme Community – Spanish delegation





# National Contact Points

## ■ What is the NCP network?

- ✓ National / regional structures established and financed in all Member States and Associated Countries.
- ✓ Give personalised support on Horizon 2020 and in applicants' own languages
- ✓ Relay between the EC and the national / regional scientific actors.
- ✓ The NCP systems can vary from one country to another from highly centralised to decentralised networks, and a number of very different actors, from ministries to universities, research centres and special agencies to private consulting companies.

## ■ NCP Services

- ✓ Guidance on choosing relevant H2020 topics and types of action
- ✓ Advice on administrative procedures and contractual issues.
- ✓ Organise seminars, workshops, etc.
- ✓ Website and newsletters
- ✓ Training and assistance on proposal writing.
- ✓ Distribution of documentation (forms, guidelines, manuals etc.)
- ✓ Assistance in partner search



Link:

[http://ec.europa.eu/research/participants/portal/desktop/en/support/national\\_contact\\_points.html](http://ec.europa.eu/research/participants/portal/desktop/en/support/national_contact_points.html)

# National Contact Points -Main Institutions-

## Oficina Europea Ministeri (FECYT)

- Pillar 1: All Programmes
- Pillar 2 (Cluster 2 + Pathfinder)
- Widening and Strengthening ERA
- Legal Financial
- Other (Gender,..)

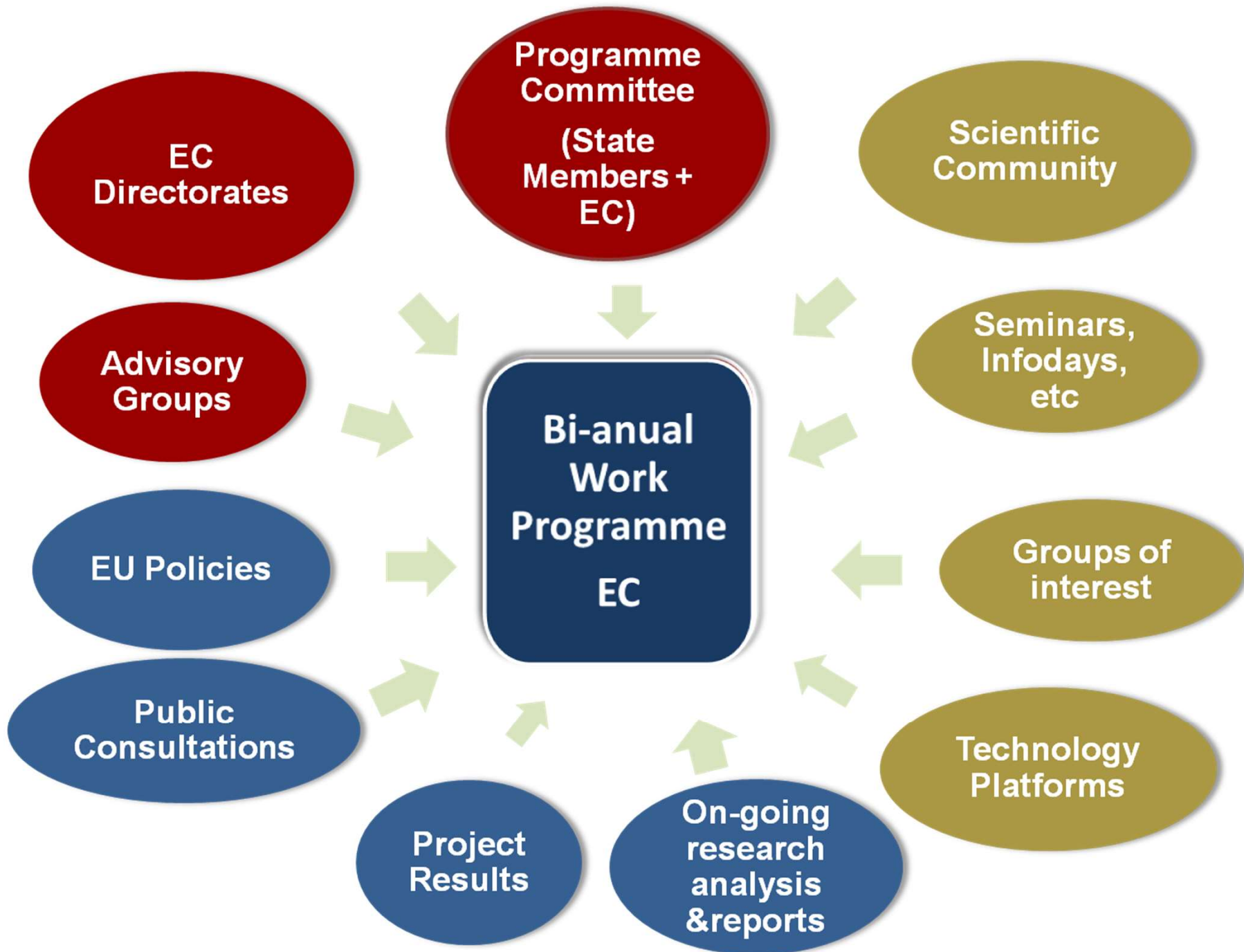
## Instituto Carlos III

- SC1. Health
- Legal and Financial

## CDTI

- Pillar 2: All Programmes (no Cluster 2)
- Pillar 3: All Programmes
- Legal and Financial

- CSIC
- CIEMAT
- Other entities (AGAUR, Madrid+D, Junta Andalucía)



# Cap a Horizon Europe... polítiques

Resultats H2020 INTERIM EVALUATION

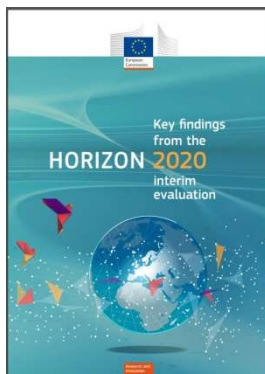
Informe elaborat pel High Level Group Report coordinat pel Prof. Lamy 'LAB – FAB – APP: Investing in the European future we want' amb 11 recomenacions i accions acompanyans

BOHEMIA: a Strategic foresight study

Mazzucato Report on missions

Public Consultation

Infodays (R&I Days)



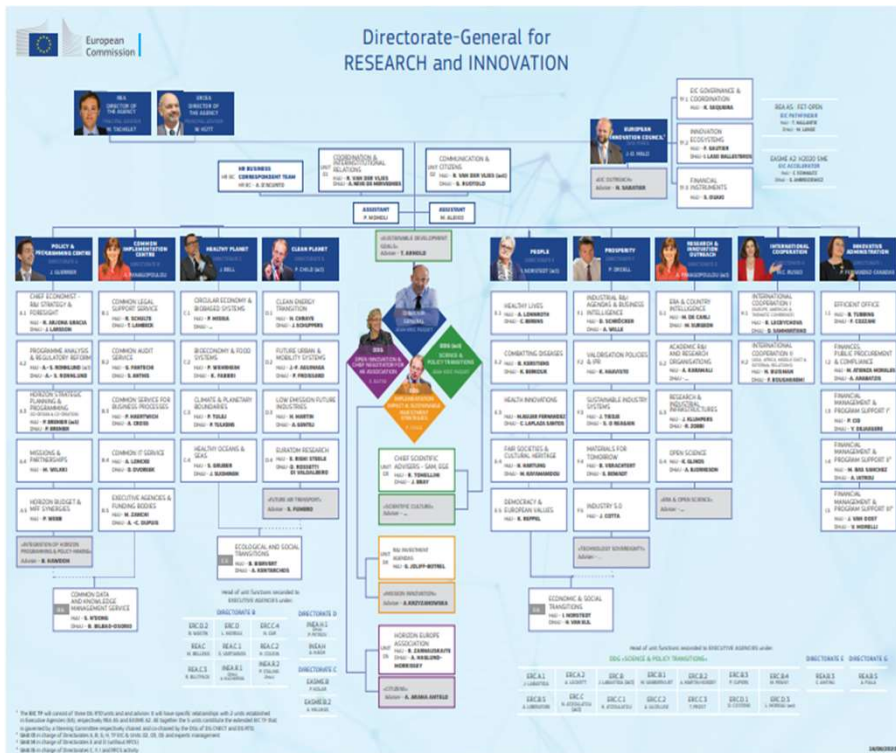
# How to influence the content of WPs?

- The Working Programmes are bianuals but the contents of calls are revised annually.
- Identify (Who is who?):
  1. EC Unit in Charge.
  2. Parlament (ITRE)
  3. People who are members of those groups that the commission primarily consults.
  4. Members of the Work Programme Committee (national delegate, NCP, etc).
  5. Interest groups (technological platforms, scientist associations, universities' associations, etc).

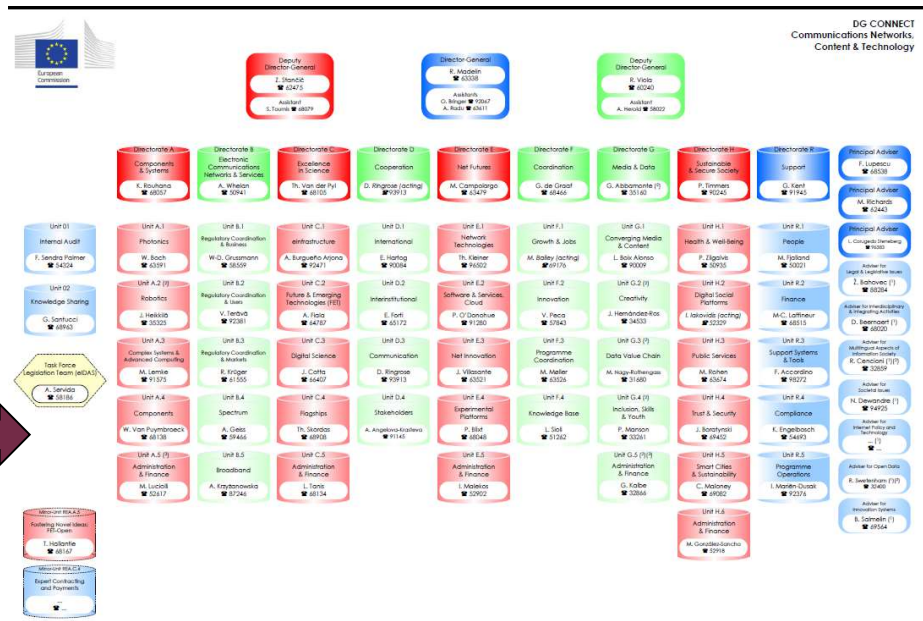




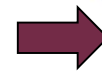
# 1. EC Management




**Directorate-General Research and Innovation (DG RTD)**



[http://ec.europa.eu/research/dgs/pdf/organisation\\_en.pdf](http://ec.europa.eu/research/dgs/pdf/organisation_en.pdf)

**Directorate-General Communications Networks, Content and technology (DG CNECT)**


[http://ec.europa.eu/dgs/connect/sites/cnect-site/files/organi\\_en.pdf](http://ec.europa.eu/dgs/connect/sites/cnect-site/files/organi_en.pdf)

[1] Adjunct to the Director General, Luxembourg.  
 [2] Head of the Unit, Luxembourg.

## 2. Parlament Europeu-Comissió ITRE



The screenshot shows the official website of the European Parliament's Committee on Industry, Research and Energy (ITRE). The page features the European Parliament logo and the text 'Comisiones Parlamento Europeo'. A search bar is located in the top right corner. The navigation menu includes 'Elegir comisión', 'ITRE', 'Inicio', 'Press room', 'Reuniones', 'Documentos', 'Eventos', 'Análisis complementarios', and 'Acerca de'. The main heading is 'Comisión de Industria, Investigación y Energía'. Under 'Últimas noticias', there is a news item dated 02-12-2020 - 13:34 about COVID-19 measures. Under 'Latest press releases', there is a release dated 09-11-2020 - ITRE AIDA titled 'MEPs discuss the future of AI with the German Presidency'. A 'STOA' logo is visible at the bottom right. A footer contains several file names: 'Rocio Castrillo - nnty', 'RDI Course - Sessio - nnty', 'RDI Course - Sessio - nnty', 'RDI Course - Sessio - pdf', and 'HEU AGAUR nov20 - nnty'.

[Asuntos destacados](#) | [Inicio](#) | [ITRE](#) | [Comisiones](#) | [Parlamento Europeo \(europa.eu\)](#)

## 3. EC Advisory Groups

[Access to risk finance \(debt and equity financing\)](#)

[Climate action, environment, resource efficiency and raw materials](#)

[European research infrastructures including eInfrastructures](#)

[Europe in a changing world – inclusive, innovative and reflective societies](#)

[Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the bioeconomy and biotechnology](#)

[Future and Emerging Technologies \(FET\)](#)

[Gender](#)

[Health, demographic change and wellbeing](#)

[Innovation in small and medium-sized enterprises \(SMEs\)](#)

[International cooperation](#)

[The Marie Skłodowska-Curie actions on skills, training and career development](#)

[Nanotechnologies, advanced materials and advanced manufacturing and processing](#)

[Science with and for Society](#)

[Secure, clean and efficient energy and Euratom](#)

[Secure societies – protecting freedom and security of Europe and its citizens](#)

[Smart, green and integrated transport](#)

[Space](#)

[Spreading excellence and widening participation](#)

There is also the [CONNECT Advisory Forum for ICT Research and Innovation \(CAF\)](#).

## Connie Hedegaard

Adaptation to Climate Change including Societal Transformation



Served as European Commissioner for Climate Action from 2010 to 2014, during which time she led the negotiations towards the adoption of the EU 2030 Climate and Energy Framework and represented the EU in the international climate negotiations.

[Read the biography](#)

## Walter Ricciardi

Cancer



In October 2019 Professor Ricciardi replaced the originally named chair, Professor Harald zur Hausen.

[Read the biography](#)

## Pascal Lamy

Healthy Oceans, Seas, Coastal and inland Waters



Former European Commissioner for Trade and Director General of the World Trade Organisation from 2005-2013.

[Read the biography](#)

## Hanna Gronkiewicz-Waltz

Climate-Neutral and Smart Cities



Former chair of the Central Bank of Poland, also served as Mayor of Warsaw.

[Read the biography](#)

## Cees Veerman

Soil health and Food



Dutch Minister of Agriculture from 2002 to 2007 and was also President of the EU Council of Agriculture Ministers.

[Read the biography](#)

## Mission boards

Information about the mission areas and the people chairing the mission boards.

- ✓ Members of the Missions Boards  
[https://ec.europa.eu/info/sites/info/files/research\\_and\\_innovation/groups/ec\\_rtd\\_members-mission-boards.pdf](https://ec.europa.eu/info/sites/info/files/research_and_innovation/groups/ec_rtd_members-mission-boards.pdf)
- ✓ Members of the Missions Assemblies  
[https://ec.europa.eu/info/sites/info/files/research\\_and\\_innovation/groups/ec\\_rtd\\_members-mission-assemblies.pdf](https://ec.europa.eu/info/sites/info/files/research_and_innovation/groups/ec_rtd_members-mission-assemblies.pdf)



## REGISTER OF COMMISSION EXPERT GROUPS and Other Similar Entities

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REGISTER OF COMMISSION EXPERT GROUPS  
and Other Similar Entities

European Commission > Register of Commission expert groups and other similar entities > Group Details

Home

Group Details - Commission Expert Group

Print as PDF  
Subscribe to this group

Details Additional Information Meetings Subgroups Statistics Members

**Name:** Horizon 2020 Advisory group [Europe in a changing world – inclusive, innovative and reflective societies] (102951) **Active**

**Abbreviation:** H2020 EAG SC6

**Policy Area:** Research and Innovation

**Lead DG:** RTD - DG Research and Innovation

**Associated DG:** CNECT - DG Communications Networks, Content and Technology

**Type:** Informal, Temporary

**Scope:** Limited

**Mission:** To interact with EU Member States and other EEA countries in order to prepare the implementation of Societal Challenge 6, as foreseen under the proposed Horizon 2020

**Task:** Provides expertise to the Commission when preparing implementing measures, i.e. before the Commission submits these draft measures to a comitology committee

**Contact:** RTD-H2020-SC6@ec.europa.eu

Groups assisting the Commission

ing coordination and cooperation

Submission to the committee in

s, i.e. consultative entities set  
entical role to that of  
Commission.

the Commission department  
Register also includes relevant

[Register of Commission expert groups and other similar entities \(europa.eu\)](http://europa.eu)



## REGISTER OF COMMISSION EXPERT GROUPS and Other Similar Entities

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This Register was set up by the Commission to ensure transparency on expert groups assisting the Commission in relation to:

- the preparation of legislative proposals and policy initiatives;
- the preparation of delegated acts;
- the implementation of EU legislation, programmes and policies, including coordination and cooperation with EU Member States and stakeholders in that regard;
- where necessary, the early preparation of implementing acts, before submission to the committee in accordance with Regulation (EU) N°182/2011.

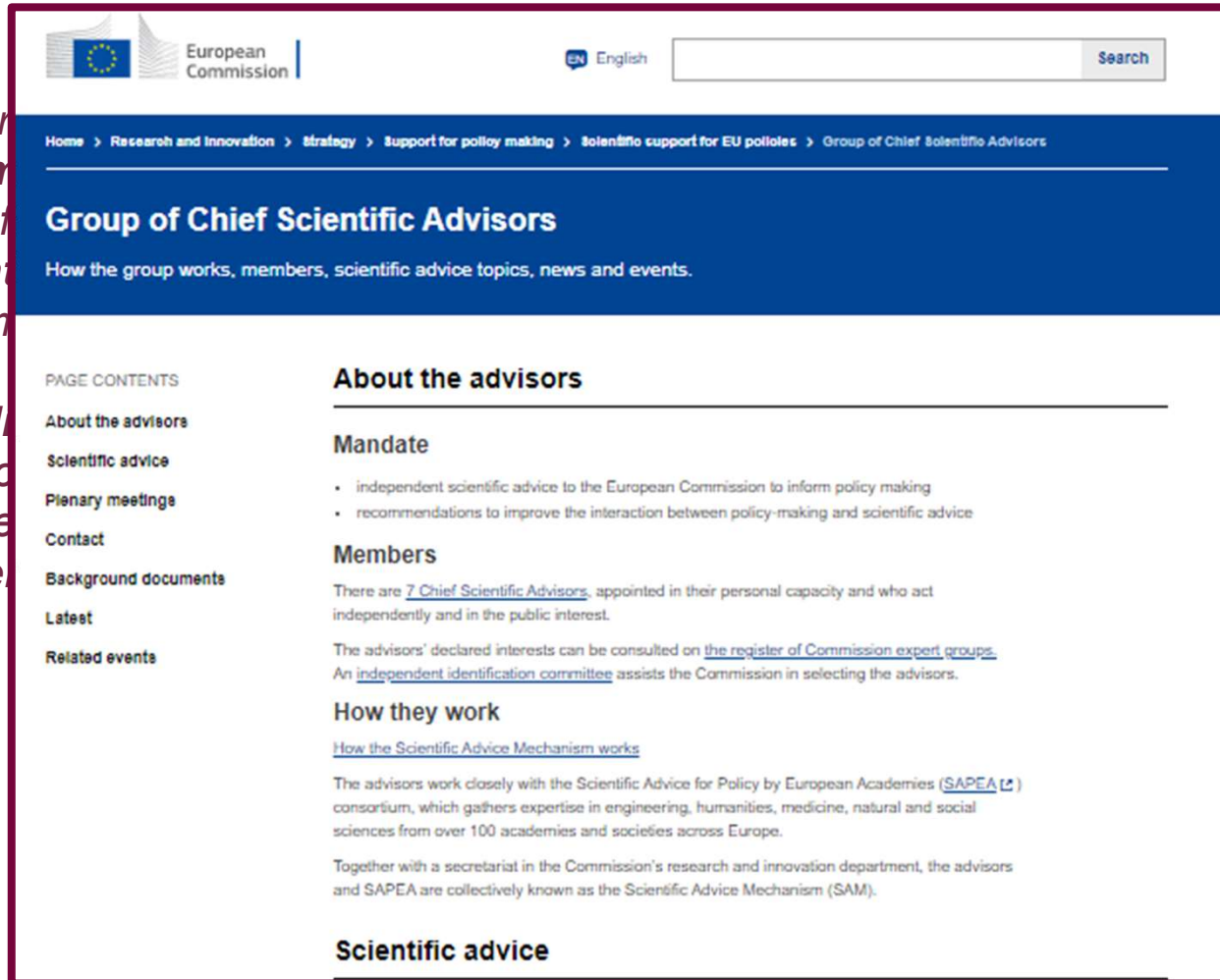
The Register **lists both Commission expert groups and other similar entities**, i.e. consultative entities set up by the Union legislator and not by the Commission, which have a similar or identical role to that of Commission expert groups and are administered and financially managed by the Commission.

For each expert group, the Register provides valuable information including on the Commission department which is running the group, as well as on its members, its mission and tasks. The Register also includes relevant documents which are produced and discussed by the groups.

[Register of Commission expert groups and other similar entities \(europa.eu\)](http://europa.eu)

# Scientific Advice Mechanism (SAM)

From 2015



The screenshot shows the European Commission website page for the Group of Chief Scientific Advisors. The page header includes the European Commission logo, the language 'EN English', and a search bar. The breadcrumb trail is: Home > Research and Innovation > Strategy > Support for policy making > Scientific support for EU policies > Group of Chief Scientific Advisors. The main heading is 'Group of Chief Scientific Advisors' with a sub-heading 'How the group works, members, scientific advice topics, news and events.' On the left, there is a 'PAGE CONTENTS' sidebar with links to 'About the advisors', 'Scientific advice', 'Plenary meetings', 'Contact', 'Background documents', 'Latest', and 'Related events'. The main content area has three sections: 'About the advisors' with a 'Mandate' section listing 'independent scientific advice to the European Commission to inform policy making' and 'recommendations to improve the interaction between policy-making and scientific advice'; a 'Members' section stating 'There are 7 Chief Scientific Advisors, appointed in their personal capacity and who act independently and in the public interest.' and 'The advisors' declared interests can be consulted on the register of Commission expert groups. An independent identification committee assists the Commission in selecting the advisors.'; and a 'How they work' section with a link 'How the Scientific Advice Mechanism works' and text stating 'The advisors work closely with the Scientific Advice for Policy by European Academies (SAPEA) consortium, which gathers expertise in engineering, humanities, medicine, natural and social sciences from over 100 academies and societies across Europe.' and 'Together with a secretariat in the Commission's research and innovation department, the advisors and SAPEA are collectively known as the Scientific Advice Mechanism (SAM).' The bottom section is titled 'Scientific advice'.

Strengthen existing and  
the supply and demand  
advice, with two main

- A structured relationship between the bodies in Member States (Academies).
- Establishing a High Level scientists- to improve the community, and ensure integrity, transparency

of scientific advice in  
the providing in-house

research projects in

mechanism to provide  
level scientific advice to  
areas.

## 4. Members of the Work Programme Committee (national delegate, NCP, etc).





## 5. Interest groups (technological platforms, scientist associations, universities' associations, etc).

LE  
RU

**League of European  
Research  
Universities**

 PHOTONICS<sup>21</sup>



**EUROPEAN TECHNOLOGY  
PLATFORM FOR HIGH  
PERFORMANCE COMPUTING**

 NETworld  
2020

**SCIENCE | BUSINESS<sup>®</sup>**



**eua** EUROPEAN  
UNIVERSITY  
ASSOCIATION

 nanomedicine  
EUROPEAN TECHNOLOGY PLATFORM

## How to propose a topic:

---

1. Choose the call /area.
2. Choose the title.
3. Write a brief description in which you can identify: problem, objective/s, possible end-users and main outcomes.
4. Choose the type of action.
5. Impact related to the WP and Destination



# How to propose a topic:

## ▪ Description of the topic (Specific challenge + Scope)

- What is the problem? What do we want to solve?
- What has already been done? (On-going projects, EU Directives & policies, etc.)
- What do we propose to research or develop in this topic? (i.e. Knowledge, procedures, study, pilot, demonstration, tools, etc.)
- End-user who will give the requisites and will validate project results?



## ▪ Expected Impact:

- Impact on end-users.
- Impact on policies or EU Directives.
- Social impact.
- Impact at industrial level -> Sector competitiveness
- SME participation
  - **Possible funding scheme.**
  - **Background information:** previous projects, initiatives (at national or EU level), EU Communications, etc. -> This is not included in the text, but it helps a lot in the definition.

## Example: Horizon 2020

**BES-1-2015: Maritime Border Security topic 1: radar systems for the surveillance of coastal and pre-frontier areas and in support of search and rescue operations**

**Specific challenge:** Activities in the Mediterranean Sea related to border surveillance, including fight against drug trafficking and illegal immigration as well as search-and-rescue operations require for the authorities to detect at a long distance (typically: over the horizon) the presence of small vessels. The performance of existing radar systems need to be improved to that effect, or to be combined with other technologies. The cost and power requirements of such systems need to be lowered. Their deployment must also take into account the coastal environment, and they must integrate properly in the landscape. They should interface seamlessly with existing infrastructure supporting operations undertaken, or the services provided by the CISE constituent communities.

**Scope:** Pre-competitive research in areas ranging from sensor design, to the analysis and design of system configuration and integration and validation by (public) authorities for target detection, identification and recognition. Projects will focus only on border surveillance and search and rescue (not defence) needs.

**Expected impact:** To contribute to redress the limitations of current border surveillance systems at sea, particularly concerning the detection and tracking of small unseaworthy vessels. Impact will be benchmarked against improved capabilities to meet surveillance requirements in conditions ranging from those of the Southern Atlantic to the Greek archipelago. This topic would contribute further to the development of the European Border Surveillance System (EUROSUR) and the Common Information Sharing Environment (CISE) at sea. Technology provides extended coverage over the coastal marine band radars, potentially reaching pre frontier detection, thus proving appropriate for the main missions of EUROSUR45. For this reason research and innovation should focus at future seamless cooperation and interfacing with existing infrastructure supporting the CISE constituent communities. The appropriate participation of competent national authorities is necessary to better define needs.

**Type of action:** Research and innovation action. The output of the proposal is expected to lead to development of (a) prototype(s) up to Technology Readiness Level (TRL) 5; please see part G of the General Annexes.

**Indicative budget:** The Commission considers that proposals requesting a contribution from the EU of between €4m and €8m would allow this specific challenge to be addressed appropriately. Nonetheless, this does not preclude submission and selection of proposals requesting other amounts.

Title

Specific Challenge

Scope

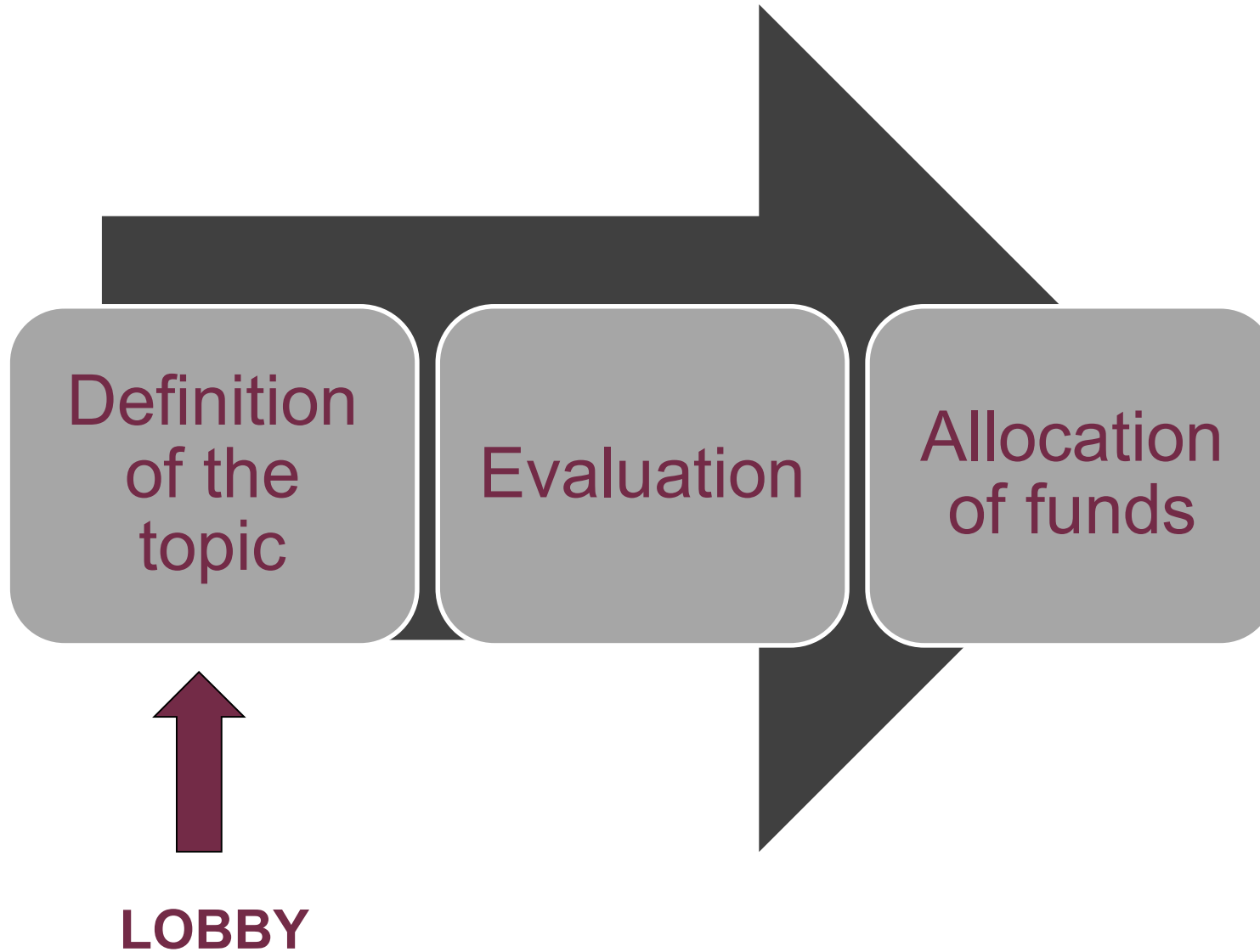
Expected Impact

Type of action

# Common mistakes:

- No **European dimension/no European added value.**
- The topic doesn't solve a EU or World problem, but a **national problem.**
- The proposed research **is not in the COM agenda** (no match objectives of the programme and Horizon Europe).
- The description (specific challenge + scope) of the topic **is not self-explanatory.**
- The proposed text is not **concrete** enough, it's not interesting for the **end-users**, it doesn't contribute to improving social issues, governance, etc...
- The topic is very much similar **to other funded activities.**
- The title is not “sexy”.
- The budget is not in line with the research.
- The topic involves problems at societal/ethical level.





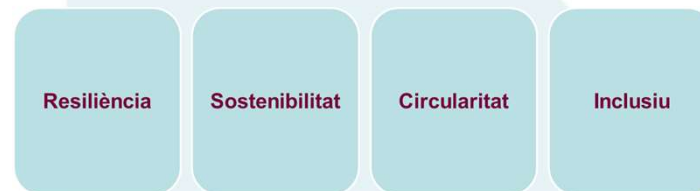
# Ciències Socials i Humanitats a Horizon Europe

# Clúster 2 "Cultura, creativitat i societats inclusives"

Focalitzat en aspectes socials i persones.....i en la societat en general  
Pretén:

*...fomentar una **millor comprensió** d'Europa*

*...**oferir solucions** i suport a unes societats europees inclusives, innovadores i reflexives....preservar el patrimoni cultural i potenciar els sectors culturals i creatius ..... En un context de transformació sense precedents ... i de **creixent interdependència mundial**..*





## Clúster 2 – Àmbits d'Intervenció



**Dem**  
els d  
la re  
de c

### WP 2021-2022

#### **Democràcia i Governança:**

- ✓ Democràcia representativa
- ✓ Impacte desigualtats en democràcia
- ✓ Governança mundial post-covid
- ✓ Educació per la democràcia



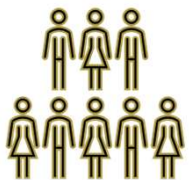
**Cu**  
un  
mil  
con

#### **Cultura, patrimoni cultural i creativitat:**

- ✓ Patrimoni cultural europeu (preservació)
- ✓ Industries culturals i creatives com a motor d'innovació i competitivitat
- ✓ Valors i tradicions de les societats europees

#### **Transformacions econòmiques i socials**

- ✓ Demografia i efectes de les societats envellides
- ✓ Migració i racisme
- ✓ Desigualtats i mercat laboral
- ✓ Tecnologies en l'educació i aprenentatge
- ✓ Apoderament de gènere, econòmic i cultural



**Tra**  
ecc

contribuir a una estratègia europea per creixement inclús, comprendre i respondre als impactes dels avenços tecnològics i la interconnexió econòmica tenint en compte la resiliència social; donar suport a les polítiques de mobilitat i migració de la UE tant internes com externs; i promoure la integració.

estat de dret i  
transparència,  
rar els nivells

ural; promoure  
a protecció, la  
ció d'ocupació  
ls i creatives

altats socials,  
capital humà i

Clúster	Àmbit d'Intervenció	
Salut	<ul style="list-style-type: none"> <li>Salut al llarg de tot el cicle vital.</li> <li>Malalties no transmissibles i malalties rares.</li> <li>Eines, tecnologies i solucions digitals per a la salut i l'assistència, en particular la medicina personalitzada.</li> </ul>	<ul style="list-style-type: none"> <li>Determinants ambientals i socials de la salut.</li> <li>Malalties infeccioses, incloses les malalties associades a la pobresa i desateses.</li> <li>Sistemes d'atenció sanitària.</li> </ul>



**Clúster 1 (salut):** desigualtats socioeconòmiques relacionades amb la salut, adaptació dels sistemes de salut públics als reptes de la societat (per exemple, demografia), models econòmics i economia de la salut, rendibilitat, sostenibilitat fiscal i accessibilitat de la salut

Clúster	Àmbit d'Intervenció	
Seguretat civil per a la societat	<ul style="list-style-type: none"> <li>Societats resistents a les catàstrofes.</li> <li>Protecció i seguretat.</li> </ul>	<ul style="list-style-type: none"> <li>Ciberseguretat.</li> </ul>



**Clúster 3 (seguretat):** combatre la radicalització i l'extremisme, construir la resiliència social davant la desinformació i les notícies falses, millorar la resposta a la violència domèstica

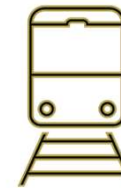


Clúster	Àmbit d'Intervenció	
<b>Món Digital, indústria i espai</b>	<ul style="list-style-type: none"> <li>Tecnologies de fabricació.</li> <li>Materials avançats.</li> <li>Internet de nova generació.</li> <li>Indústries circulars.</li> <li>Espai, incloent l'observació de la Terra.</li> <li>Tecnologies facilitadores emergents.</li> </ul>	<ul style="list-style-type: none"> <li>Tecnologies digitals clau, com les tecnologies quàntiques.</li> <li>Intel·ligència artificial i robòtica.</li> <li>Computació avançada i macro dades.</li> <li>Indústries netes i amb baixes emissions de carboni.</li> <li>Tecnologies facilitadores emergents.</li> </ul>



**Clúster 4 (digital, indústria, espai):** investigació qualitativa sobre la naturalesa de les transformacions de llocs de treball per a la indústria 4.0 / 5.0, l'anàlisi de les interaccions home-màquina, models de negoci per a desenvolupaments sostenibles, la participació ciutadana i el compromís públic amb les tecnologies industrials.

Clúster	Àmbit d'Intervenció	
<b>Clima, energia i mobilitat</b>	<ul style="list-style-type: none"> <li>Ciències i solucions climàtiques.</li> <li>Sistemes i xarxes d'energia.</li> <li>Comunitats i ciutats.</li> <li>Competitivitat industrial en el transport.</li> <li>Mobilitat intel·ligent.</li> </ul>	<ul style="list-style-type: none"> <li>Subministrament d'energia.</li> <li>Edificis i instal·lacions industrials en la transició energètica.</li> <li>Un transport i una mobilitat nets, segurs i accessibles.</li> <li>Emmagatzematge de energia.</li> </ul>



**Clúster 5 (Clima):** atraure i permetre als ciutadans participar en la transició d'energia neta, des de la planificació fins a la presa de decisions i la implementació.



Clúster	Àmbit d'Intervenció	
Alimentació, bioeconomia, recursos naturals, agricultura i medi ambient	<ul style="list-style-type: none"> <li>Observació del medi ambient.</li> <li>Agricultura, silvicultura i zones rurals.</li> <li>Sistemes circulars.</li> <li>Sistemes alimentaris.</li> </ul>	<ul style="list-style-type: none"> <li>Mars, oceans i aigües continentals.</li> <li>Sistemes d'innovació de base biològica en la bioeconomia de la UE.</li> </ul>



**Clúster 6 (Alimentació, bioeconomia, medi ambient):** millorar el benestar rural i les perspectives socioeconòmiques a llarg termini, promoure i valoritzar el patrimoni cultural



Aturats



Reclusos i exreclusos



Pobresa i exclusió social



Dones i LGTBI



Nouvinguts i minories ètniques



Infants



Salut mental



Malalties



Gent gran



Sense atenció directa



Drogodependents



Persones amb discapacitat



Joves



Diversos

[https://agaur.gencat.cat/ca/internacionalitzacio/  
spei.agaur@gencat.cat](https://agaur.gencat.cat/ca/internacionalitzacio/spei.agaur@gencat.cat)  
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HR EXCELLENCE IN RESEARCH



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