



Horizon Europe :

état des lieux en juin 2019

20 Juin 2019

Key Novelties

[See Impact Assessment]

-  Support breakthrough innovation
-  Create more impact through mission-orientation and citizens' involvement
-  Strengthen international cooperation
-  Reinforce openness
-  Rationalise the funding landscape



European Innovation Council

R&I Missions

Extended openness to association and international cooperation

Open science policy

New approach to Partnerships

More impact

More Openness



Open Science



**Global Challenges and
Industrial Leadership**



Open Innovation

**Strengthening the European
Research Area (ERA)**



European Innovation Council

The EIC will support innovations with breakthrough and market-creating potential that currently face high risks due to the fragmentation of the innovation eco-system, lack of risk finance and risk aversion.

**European
Innovation
Council**

Will help creating markets of the future, scale up companies, provide more accessible and user-friendly support, leverage private finance, more entrepreneurship and risk-taking

Two complementary instruments:

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

Accelerator: mainly EIC blended finance
(from pre-commercial to market & scale-up)

Pillar I: Open Science

European Research Council (ERC)

Marie Skłodowska-Curie Actions

Research Infrastructures

Pillar II: Global Challenges and Industrial Competitiveness

Health

Culture, creativity and Inclusive society

Civil Security for Societies

Digital, Industry and Space

Climate, Energy and Mobility

Food, bio economy, Natural Resources, agriculture and Environment

Joint Research Centre

Pillar III: Open Innovation

European Innovation Council

Innovation ecosystems

European Institute of Innovation & Technology (EIT)

Strengthening the European Research Area

Widening participation & Sharing Excellence

Reforming and Enhancing the EU Research and Innovation System





Pilier II : Global Challenges & Industrial competitiveness

1. Health **7,7 G€**
 2. Culture, Creativity & Inclusive society
 3. Civil Security for society
 4. Digital, Industry & Space **15 G€**
 5. Climate, Energy & Mobility **15 G€**
 6. Food, Bioeconomy, Natural Resources,
Agriculture & Environment **10 G€**
 7. Non-nuclear JRC **2 G€**
- 2,8 G€



Strategic planning

- **Document de référence pour :**

- les WP 2021-2022 et 2023-2024
- Pilier II –clusters- + EIC

- **Indique :**

- Orientations de R&I
(pas activités MAIS impacts à 10-15 ans)
- Identification des Missions
- Identification des partenariats co-financés et co-programmés
- Actions à conduire avec des pays Tiers
- Questions transverses (SHS, KETs, Genre, Ethique, Dissemination & exploitation...)

- **Elaboré via consultation des Etats, du Parlement, des acteurs/citoyens**



Connecting to citizens: R & I Missions

Missions are expected to relate EU's research and innovation actions better to concrete needs of society and of citizens, and thus give them a much stronger visibility and impact.

R&I Missions

Will generate more impact, achieve better outreach, improve cross-sectoral and cross-disciplinary cooperation, encourage a systemic approach and align R&I instruments and agendas in Europe

- A mission will consist of a portfolio of actions intended to achieve **a bold and inspirational as well as measurable goal** within a set timeframe, with impact for science and technology, society and citizens that goes beyond individual actions

Horizon Europe proposal defines mission characteristics and a few implementation modalities. Concrete missions will be **co-designed with Member States, stakeholders and citizens** during implementation (strategic planning).



Missions

■ 5 Mission Areas (Annexe du Programme spécifique) :

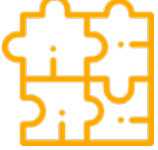
- Adaptation au changement climatique
- Cancer
- Santé des océans, mers, cotes et eaux
- Villes intelligentes et neutres pour l'environnement
- Santé des sols et nourriture

■ Missions proposée et supervisée par un “Mission Board” constitué de 15 experts (experts, pas seulement UE, end-users)

■ Nommés (yc Chair) par la Commission pour 5 ans (18 mois en 1ère phase)

■ 4 réunions/an au moins

■ Adopté en Comité stratégique pour 2021-2024



New approach to European Partnerships

Article 8 du Règlement Horizon Europe

New generation of objective-driven and more ambitious partnerships in support of agreed EU policy objectives

Key features

- **Simple architecture and toolbox**
- **Coherent life-cycle approach**
- **Strategic orientation**

Co-programmed

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

JPI (SET-Plan)
cPPP (EEB + SPIRE)
FET Flagship

Co-funded

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

ERANETs (...)
EJP

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

EIT-KICs (InnoEnergy)
Article 185
Article 187 (FCH2 JU)

Majorité du budget du pilier II mis en œuvre HORS des Partenariats

Proposals for institutionalised Partnerships based on Article 185 / 187 (Annexe du programme spécifique)

Partnership area (Annex Va of the Regulation)	Proposal
Partnership Area 1: Faster development and safer use of health innovations for European patients, and global health	<ul style="list-style-type: none"> ▪ EU-Africa research partnership on health security to tackle infectious diseases ▪ Innovative Health Initiative
Partnership Area 2: Advancing key digital and enabling technologies and their use, including but not limited to novel technologies such as Artificial Intelligence, photonics and quantum technologies	<ul style="list-style-type: none"> ▪ Key Digital Technologies ▪ Smart Networks and Services ▪ EuroHPC (no Impact Assessment)
Partnership Area 3: European leadership in Metrology including an integrated Metrology system	<ul style="list-style-type: none"> ▪ European Metrology
Partnership Area 4: Accelerate competitiveness, safety and environmental performance of EU air traffic, aviation, transport and rail	<ul style="list-style-type: none"> ▪ Transforming Europe's rail system ▪ Integrated Air Traffic Management ▪ Clean Aviation
Partnership Area 5: Sustainable, inclusive and circular bio-based solutions	<ul style="list-style-type: none"> ▪ Circular bio-based Europe: sustainable innovation for new local value from waste and biomass
Partnership Area 6: Hydrogen and sustainable energy storage technologies with lower environmental footprint and less energy-intensive production	<ul style="list-style-type: none"> ▪ Clean Hydrogen
Partnership Area 7: Clean, connected, cooperative, autonomous and automated solutions for future mobility demands of people and goods	<ul style="list-style-type: none"> ▪ Safe and Automated Road Transport
Partnership Area 8: Innovative and R&D intensive small and medium-sized enterprises	<ul style="list-style-type: none"> ▪ Innovative SMEs

European Research & Innovation Days

24, 25 and 26 September 2019 at Kanal - Centre Pompidou, Brussels

- To raise interest towards European R&I and contribute to co-designing the HE Strategic Plan
- Sessions organised around HE-Pillar-2 clusters; links to Pillars 1 and 3; and cross-cutting/horizontal/implementation issues
- Draft Programme published early May on the [event website](#)
- For action:
 - Propose Speakers
 - Propose Moderators for the Strategic Plan discussions
 - Flag ongoing EU-funded projects for the Exhibition

[Programme & Inscription](#)