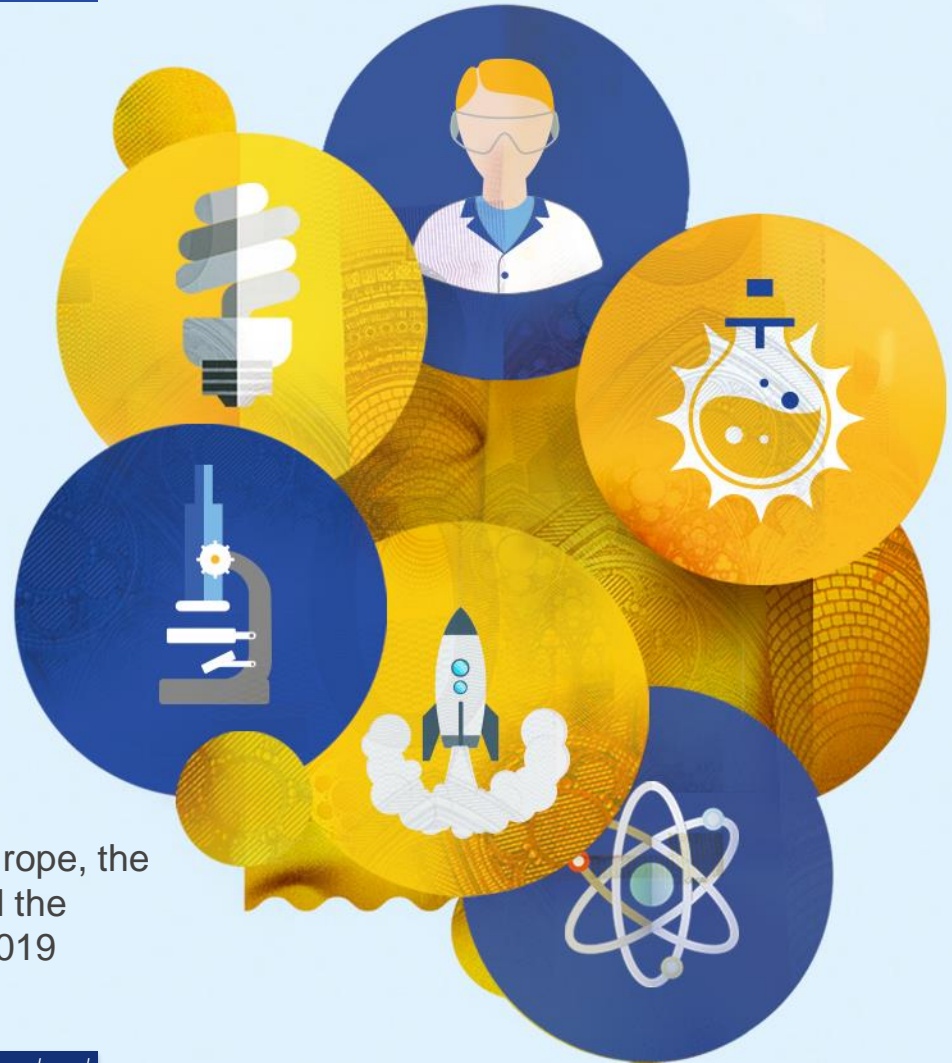


# Horizon Europe

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

#HorizonEU

Based on the Commission Proposal for Horizon Europe, the common understanding between co-legislators and the Partial General Approach, both approved in April 2019



# Our vision

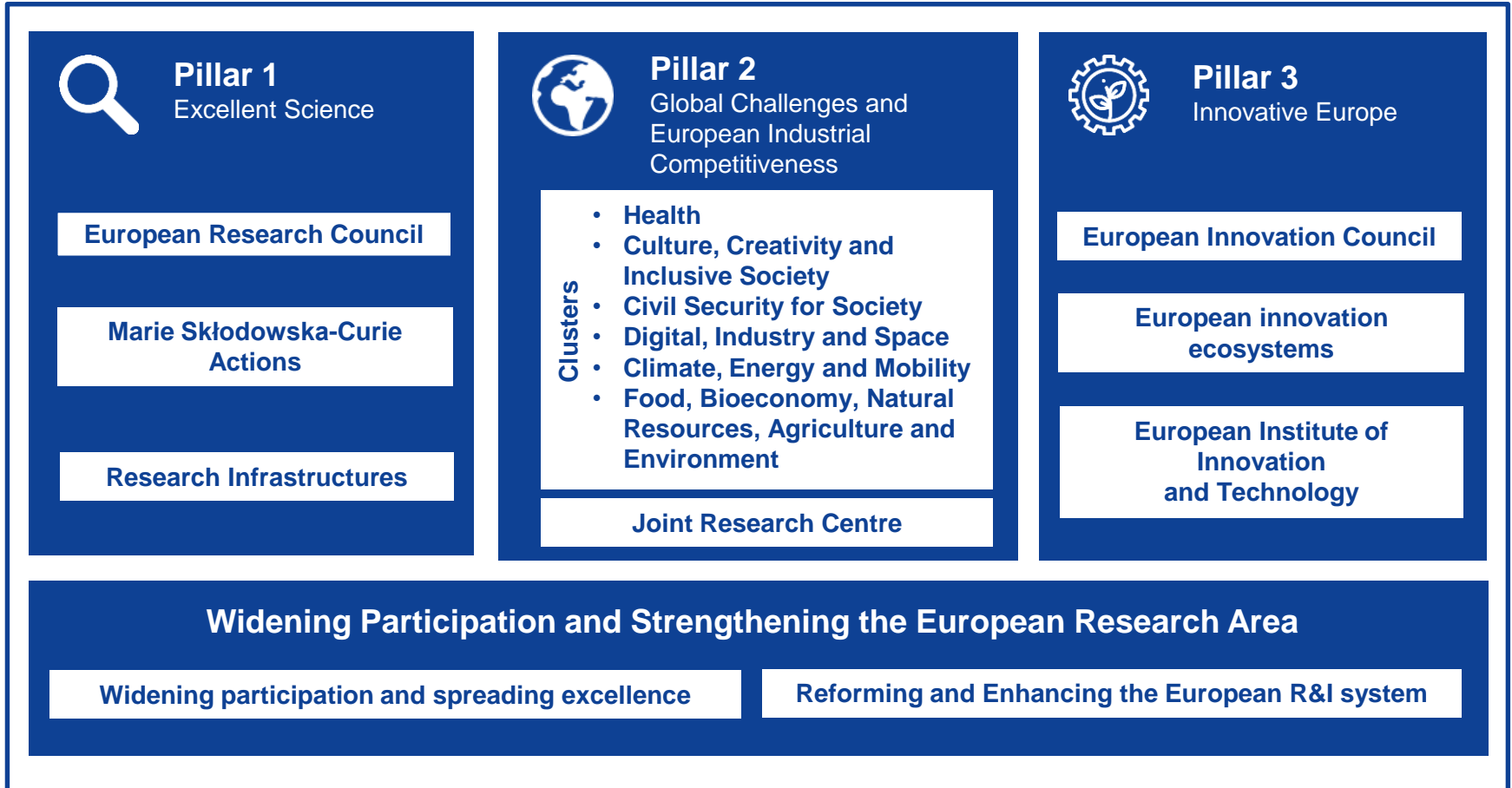
A sustainable, fair and **prosperous** future for **people** and **planet** based on European values.

- Tackling **climate change** (35 % budgetary target)
- Helping to achieve **Sustainable Development Goals**
- Boosting the Union's **competitiveness and growth**

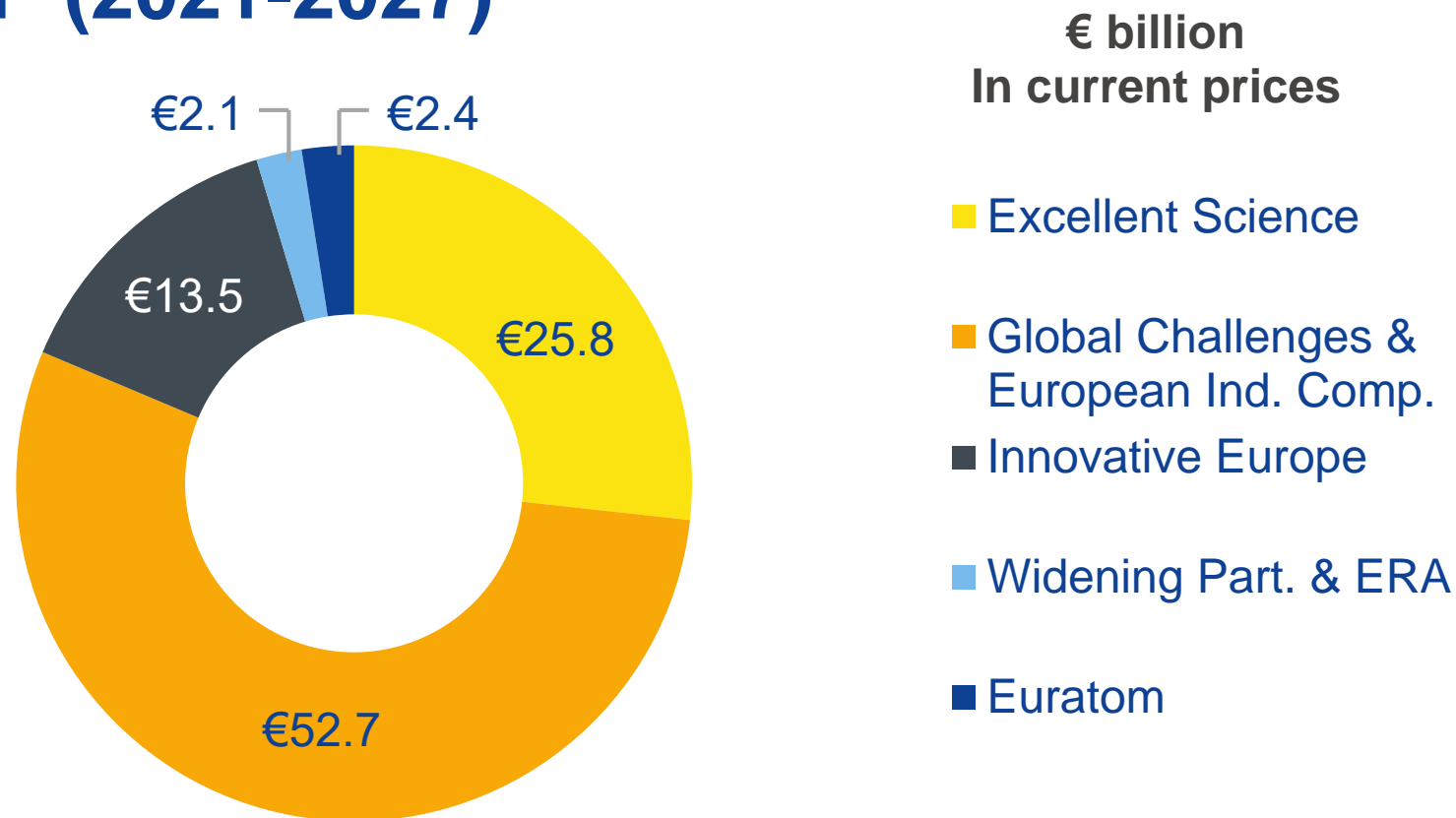


Credits: <https://www.un.org/sustainabledevelopment/sustainable-development-goals/>

# Horizon Europe: Preliminary structure



# Commission proposal for budget: €100 billion\* (2021-2027)



\* This envelope includes EUR 3.5 billion allocated under the InvestEU Fund.

# European Parliament and Council reached a common understanding on Horizon Europe on 19 March 2019

- Budget, synergies and third country association still pending, depending on the overall MFF negotiations
- Commission has started preparations for the implementation of Horizon Europe

# Horizon Europe – Central elements

# Lessons Learned

## from Horizon 2020 Interim Evaluation

# Key Novelties


## in Horizon Europe

 Support breakthrough innovation →

European Innovation Council

 Create more impact through mission-orientation and citizens' involvement →


R&I Missions

 Strengthen international cooperation →

Extended association possibilities

 Reinforce openness →

Open science policy

 Rationalise the funding landscape →

New approach to Partnerships

 Encourage participation →

Spreading Excellence

**Rules for participation: continuity and simplification**



# 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)





# 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)

# Adaptation to climate change, including societal transformation



## Mission areas

Healthy oceans, seas, coastal and inland waters



Cancer

Climate-neutral and smart cities



Soil health and food



# New approach to European Partnerships

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

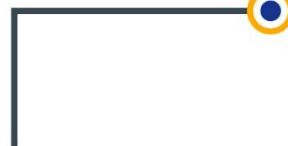
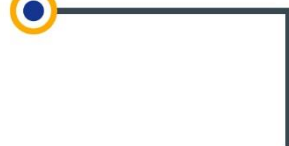
### Co-funded

Based on a joint programme agreed and implemented by partners; commitment of partners for financial and in-kind contributions

### Institutionalised

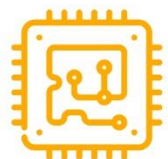
Based on long-term dimension and need for high integration; partnerships based on Articles 185 / 187 of TFEU and the EIT-Regulation supported by Horizon Europe

**Health innovations**



**Sustainable bio-based solutions**

**Key digital and enabling technologies**



**Hydrogen and sustainable energy storage**

**Metrology**



**Clean, connected mobility**

**EU air traffic, aviation and rail**



**Innovative SMEs**

**Areas for possible Institutionalised European partnerships (based on Article 185/7 TFEU)**



European Commission



# 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.)



# Open Science across the programme

## Open Science

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

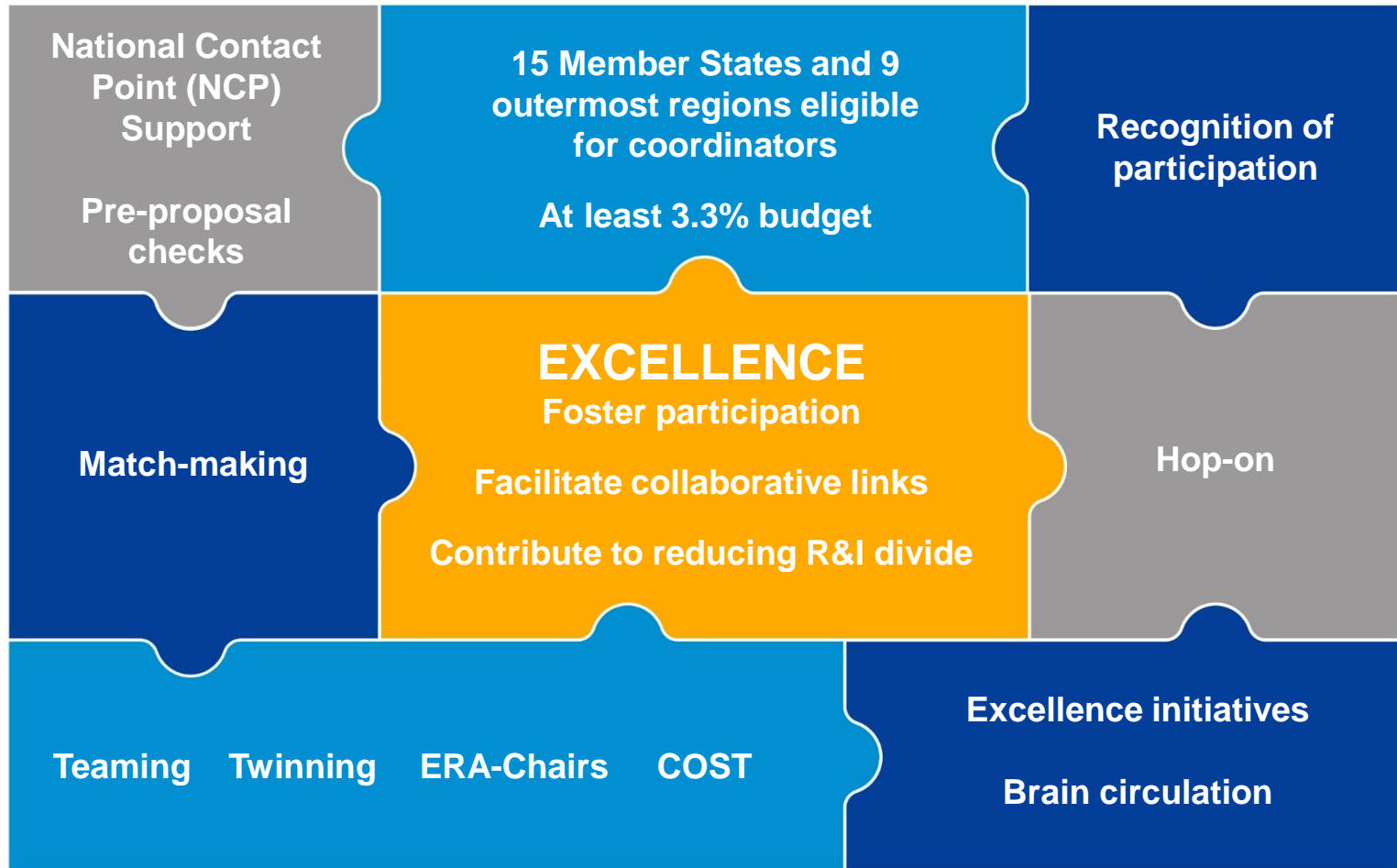
**Mandatory Open Access to publications:** beneficiaries shall ensure that they or the authors retain sufficient intellectual property rights to comply with open access requirements

**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



# Widening participation/spreading excellence



# Simple and fit for purpose rules

- Further alignment to the Financial Regulation
- Increased use of **simplified forms of grants** where appropriate (building on the H2020 lump sum pilot experience)
- Broader acceptance of **usual cost accounting practices**
- Enhanced **cross-reliance on audits** benefiting beneficiaries taking part in several Union programmes

## while ensuring continuity and consistency for beneficiaries by maintaining

- Attractive H2020 funding model, including up to 100% funding rate of direct costs
- Single set of rules principle



# Commission proposal for synergies with other Union programmes

Horizon Europe



## Other Union Programmes, including

Common Agricultural Policy  
ERDF  
External Instrument  
Maritime & Fisheries Fund  
InvestEU

LIFE  
Connecting Europe Facility  
ESF+  
Digital Europe  
Space Programme

Erasmus  
Innovation Fund  
Internal Security Fund  
Single Market Programme



## Enhanced synergies

### Compatibility

Harmonisation of funding rules; flexible co-funding schemes; pooling resources at EU level

### Coherence and complementarity

Alignment of strategic priorities in support of a common vision

# Horizon Europe – implementation, prioritisation and impact

# Strategic Plan for implementing Horizon Europe

The Strategic Plan (*new implementing act by the Commission*) will prepare the content in the work programmes and calls for proposals for the first four years

- Strategic orientation for R&I support, expected impacts
- Partnerships and missions
- Areas for international cooperation
- Issues such as:
  - Balance between research and innovation
  - Social Sciences and Humanities
  - Key Enabling Technologies and strategic value chains
  - Gender
  - Ethics and integrity
  - Dissemination and exploitation

# Strategic plan gives direction to the work programme



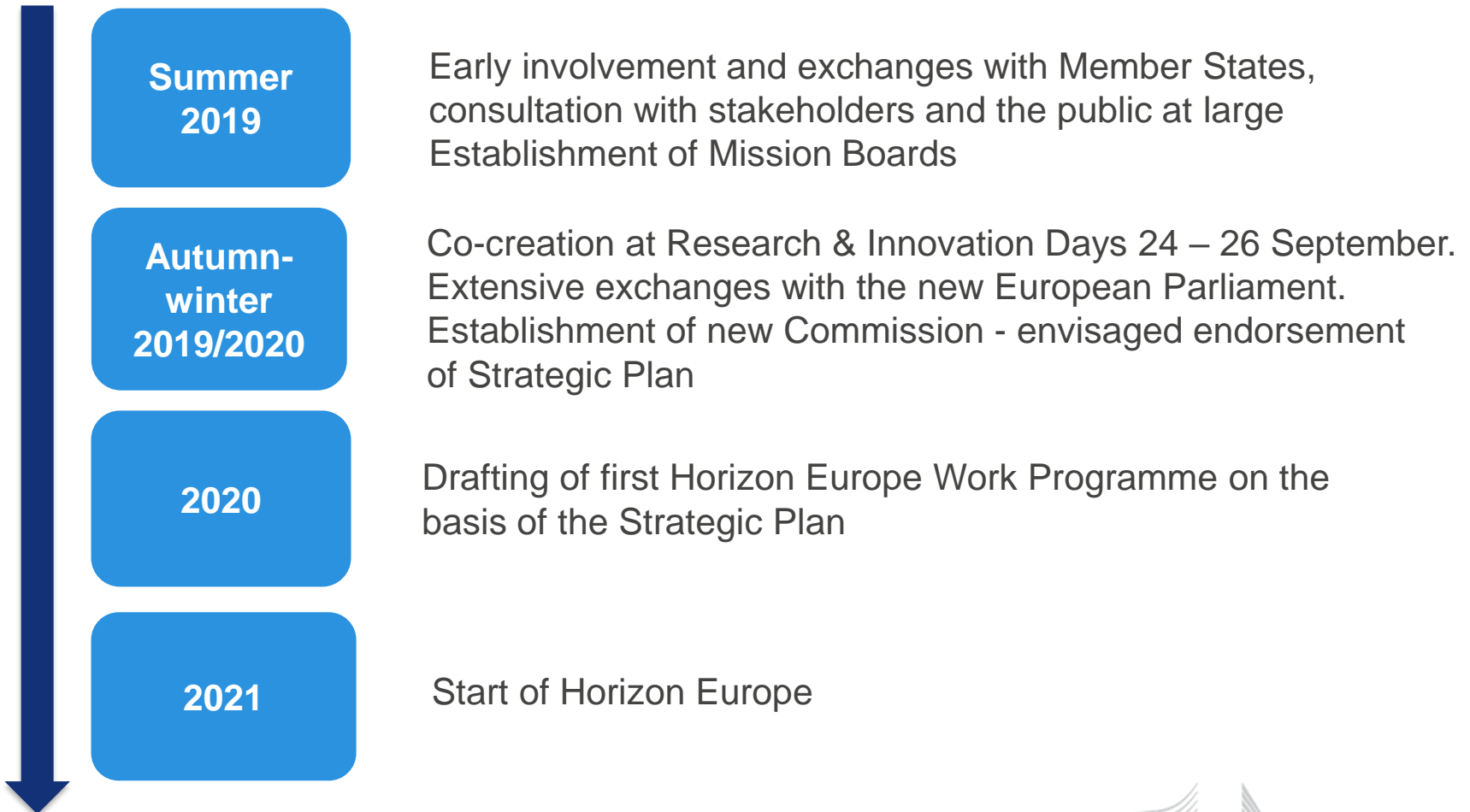
## Main Features

**Early involvement and extensive exchanges with Member States**

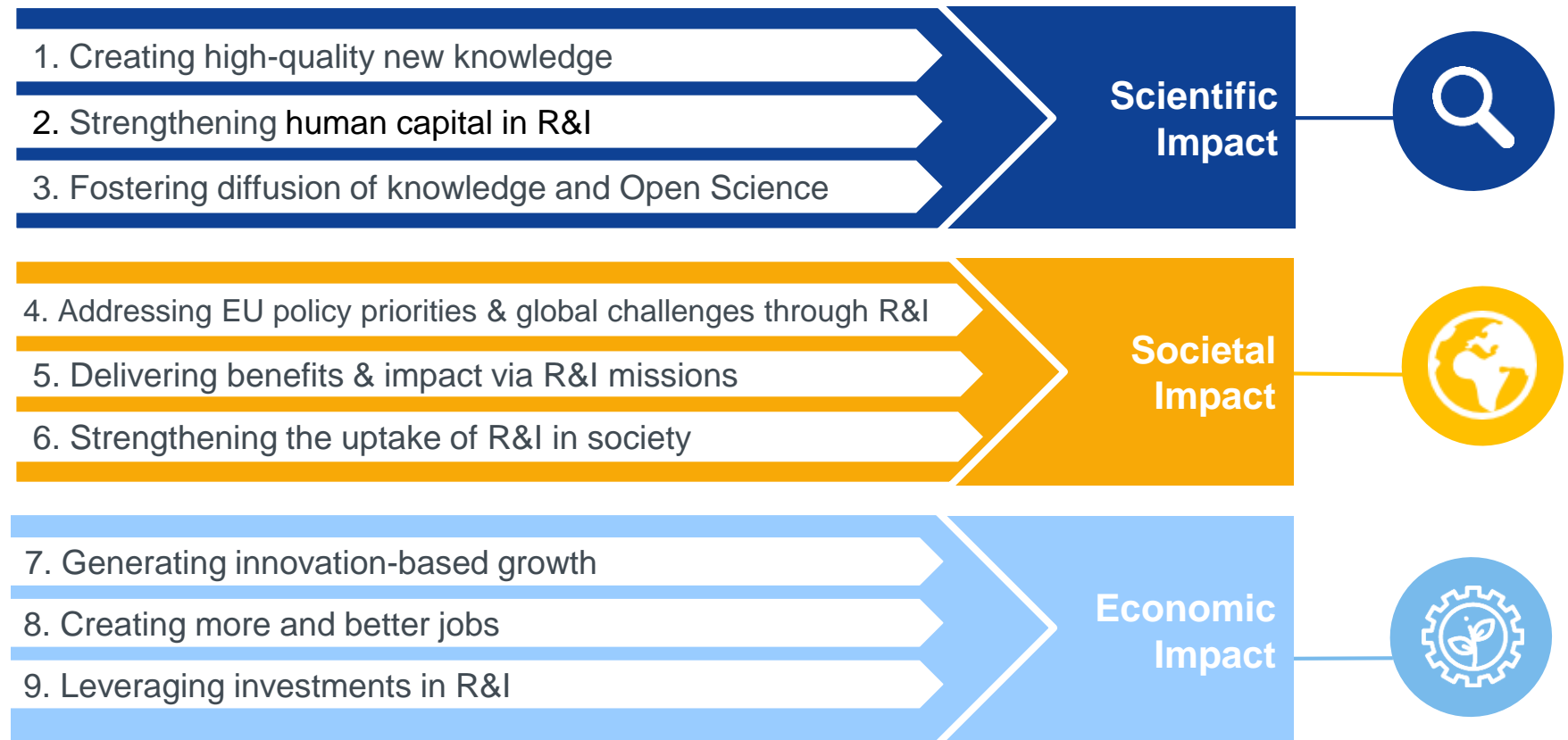
**Extensive exchanges with the European Parliament**

**Consultations with stakeholders and public at large**

# Steps towards the first Horizon Europe work programme



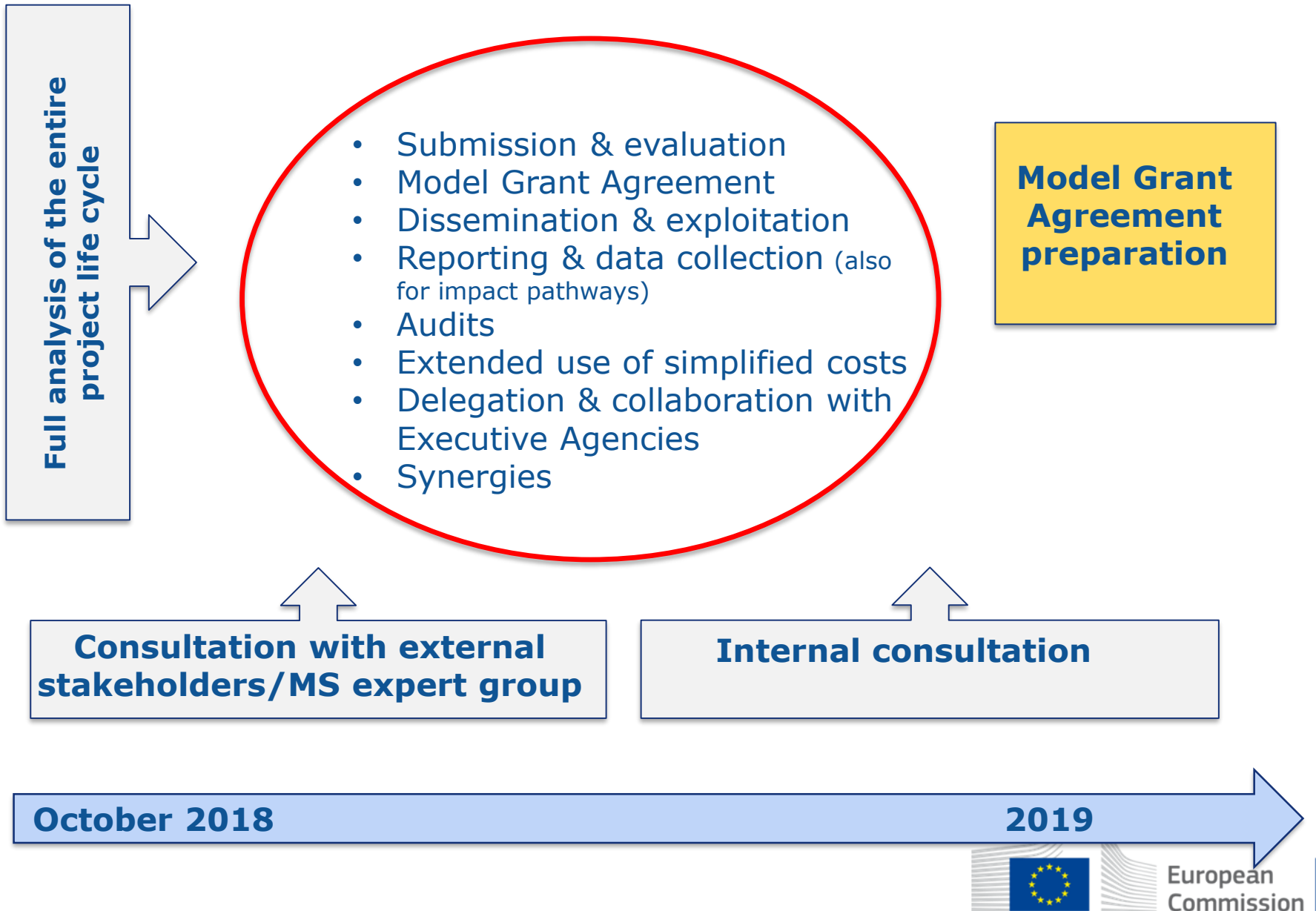
# Key impact pathways to track progress



# Implementation Strategy

- The **Implementation Strategy** will be an essential component for **delivering the objectives** of Horizon Europe, **in practice**;
- It will embrace all the processes involved in running calls, selecting proposals and managing projects, with **joined-up systems** and **common principles**.
- It will ensure that the new programme is managed according to highest standards, **maximizing the impact** of every Euro spent;
- The strategy will build on successful experience to date, but taking account of **lessons learned**, and also **adapted to the new features of Horizon Europe**.

# Review of changes needed for Horizon Europe





# Implementation Strategy

## ongoing final steps

- Ongoing consultations
- Consolidating and co-drafting the Implementation Strategy
- Key milestones:
  - **R& I Days** 24-26 September in Brussels
  - **National & Regional Stakeholder consultation events**
  - **Co-design exercise through web survey**, closed 4 October (analysis ongoing)
  - **Member States expert group** meetings on **Model Grant Agreement** in July and November

# Co-design exercise on Horizon Europe Implementation Strategy

## Have your say

ON THE IMPLEMENTATION  
OF HORIZON EUROPE

Deadline extended to **4 October 2019**



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The survey covers the entire project life cycle, from organisation of calls, proposal submission and evaluation up to efficient reporting and exploitation of results.



# Feedback from the Horizon Europe Co-design – Implementation (online consultation / R&I Days)

## ***Key messages:***

- General acknowledgement of simplifications introduced in H2020, considered as good starting point.
- Clear endorsement of the continuity in the implementation from Horizon 2020 to Horizon Europe. The approach “evolution, not revolution” taken by the Commission for the rules for participation and, by extension in a wider sense, to the implementation of the new programme is appreciated by respondents

# Feedback from the Horizon Europe Co-design – Implementation (online consultation / R&I Days)

## Some key messages per business process:

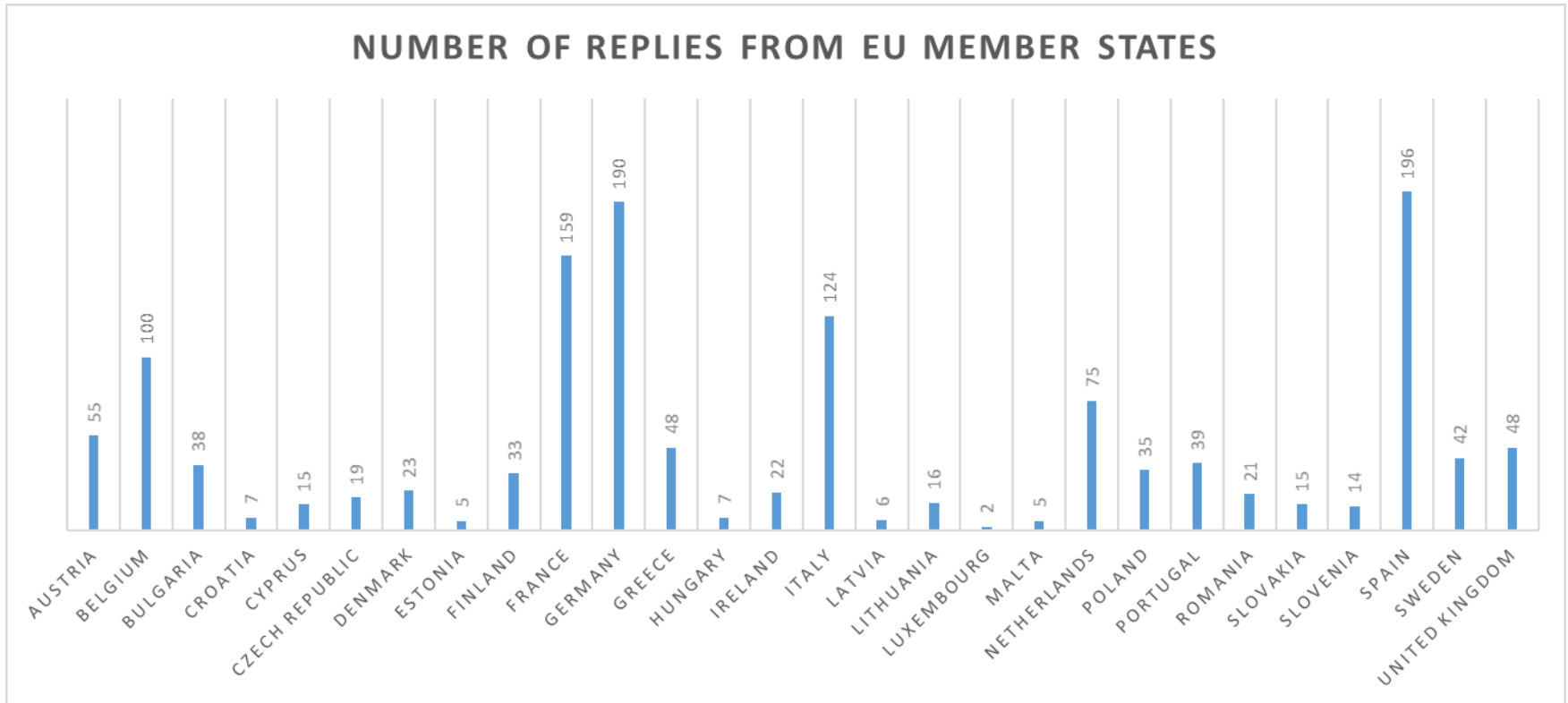
- **Work programme:** feedback underlines convenience to move towards less prescriptive topics and less complex calls.
- **Submission process:** respondents consider substantial margin for simplification, suggest shortening the proposals and removing non-core R&I parts.
- **Evaluation:** request of improving evaluation feedback, more extensive use of two-stage evaluation, introducing interviews with proposers, improving the quality of experts involved, or involving civil society actors in the evaluation process.

# Feedback from the Horizon Europe Co-design – Implementation (online consultation / R&I Days)

## Some key messages per business process:

- **Project management:** need to improve IT systems and the Funding and Tenders Portal, simplify the amendment process, improve automatic notifications, provide a channel for continuous feedback. Furthermore, some respondents highlight that individual POs should not set stricter requirements than the standard ones.
- **Audits & control:** respondents would like to be allowed to use their own accounting practices and request a more transparent audit process and a stronger link of CFS to 2<sup>nd</sup> level audit.

# Replies to online consultation





# Thank you!

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<http://ec.europa.eu/horizon-europe>