

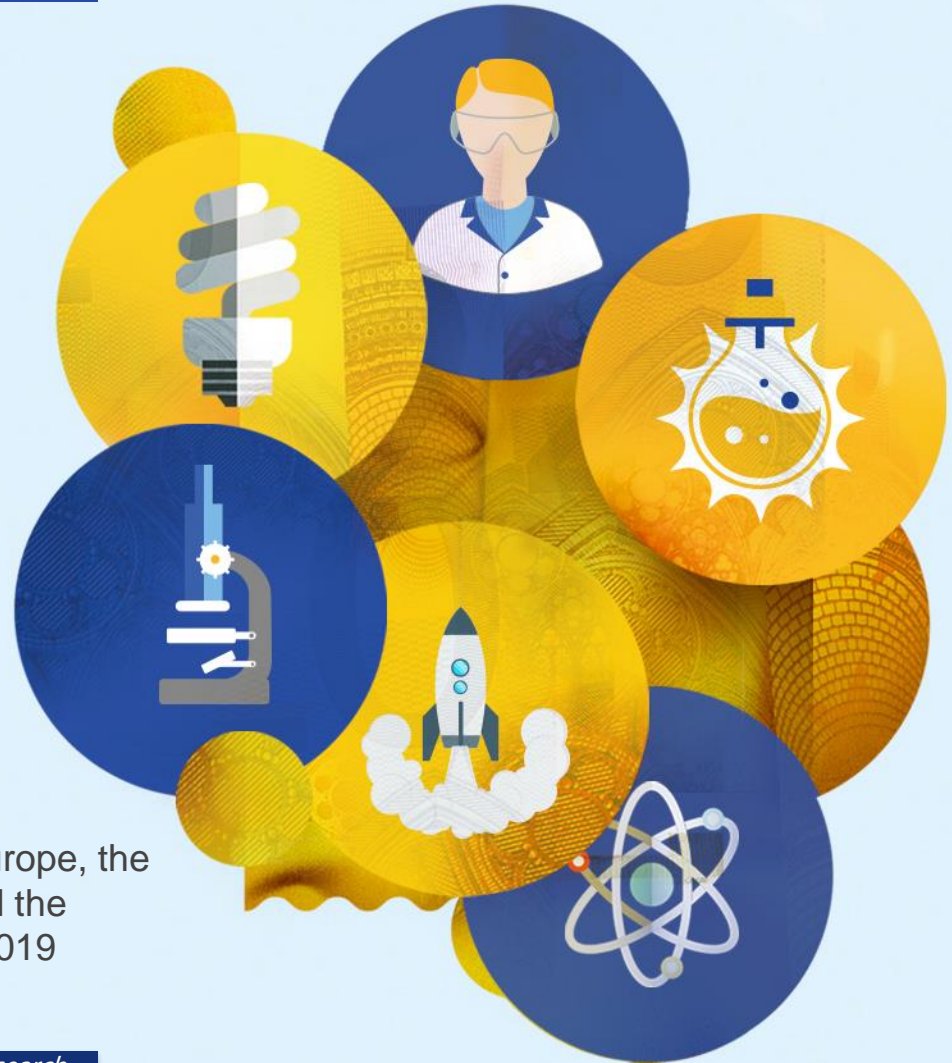
# Horizon Europe

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

#HorizonEU

**Federica Roffi**  
**Deputy Head of Unit**  
**– REA B5**

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



# Horizon Europe - Investing to shape our future

- POLITICAL LANDSCAPE
- WHY « HE »
- OBJECTIVES
- STRUCTURE
- TIMELINE

# Horizon Europe – Political Landscape

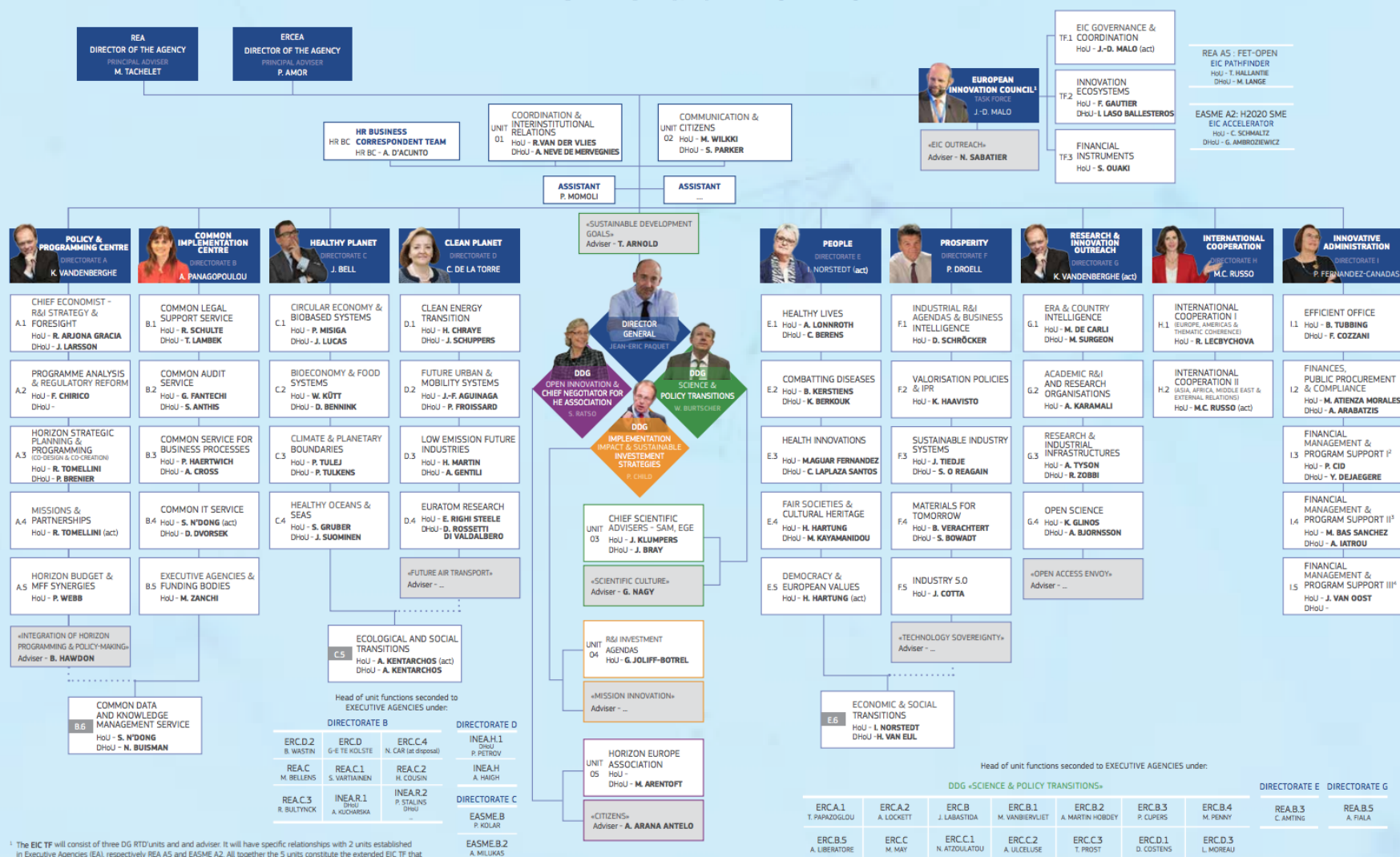


Jean Enric Paquet – Director General DG RTD  
March 2018

## Horizon Europe: EVOLUTION not REVOLUTION!



Directorate-General for  
RESEARCH and INNOVATION



<sup>1</sup> The EIC TF will consist of three DG RTD units and an adviser. It will have specific relationships with 2 units established in Executive Agencies (EA), respectively REA A5 and EASME A2. All together the 5 units constitute the extended EIC TF that is governed by a Steering Committee respectively chaired and co-chaired by the DGs of DG CNNECT and DG RTD.

<sup>2</sup> Unit 13 in charge of Directorates A, B, G, TF EIC & Units 02, 03, 05 and experts management

<sup>3</sup> Unit I4 in charge of Directorates E and D (without RFCS)

<sup>4</sup> Unit 15 in charge of Directorates C, F and RFCS activity

# 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



# New Commissioner



President-elect Ursula von der Leyen said: *"This team will shape the European Way: **we will take bold action against climate change**, build our partnership with the United States, define our relations with a more self-assertive China and be a reliable neighbour, for example to Africa. This team will have to stand up for our values and world-class standards. I want a Commission that is led with determination, that is clearly focused on the issues at hand and that provides answers. I want it to be a well-balanced, agile and modern Commission. This team will now have to gain the Parliament's confidence. **My Commission will be a geopolitical Commission committed to sustainable policies**. And I want the European Union to be the guardian of multilateralism. Because we know that we are stronger by doing together what we cannot do alone."*

**Mariya Gabriel** Nominated to be European Commissioner for Innovation and Youth

(...and Research, Culture and Sport)



# Horizon Europe – Why?

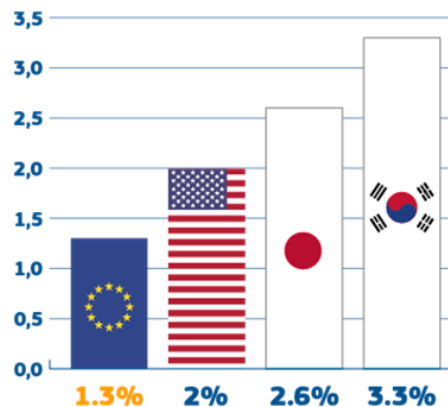


# While benefiting from world-class research and strong industries...

Our knowledge and skills are our main resources.



- **7%** of the world's population
- **20%** of global R&D
- **1/3** of all high-quality scientific publications



**1.3%**  
EU business  
R&D  
investment

**...Europe can do better at transforming this into leadership in innovation and entrepreneurship**

# WHY HORIZON EUROPE?

- The Programme shall maximise Union added value by focusing on objectives and activities that cannot be effectively realised by Member States acting alone, but in cooperation
- The Programme's general objective is to deliver scientific, technological, economic and societal impact from the Union's investments in research and innovation

# Horizon Europe – Objectives

# Horizon Europe - Objectives

The ambitious EU research and innovation framework programme (2021-2027)



**to strengthen the EU's scientific and technological bases and the European Research Area (ERA)**



**to boost Europe's innovation capacity, competitiveness and jobs**

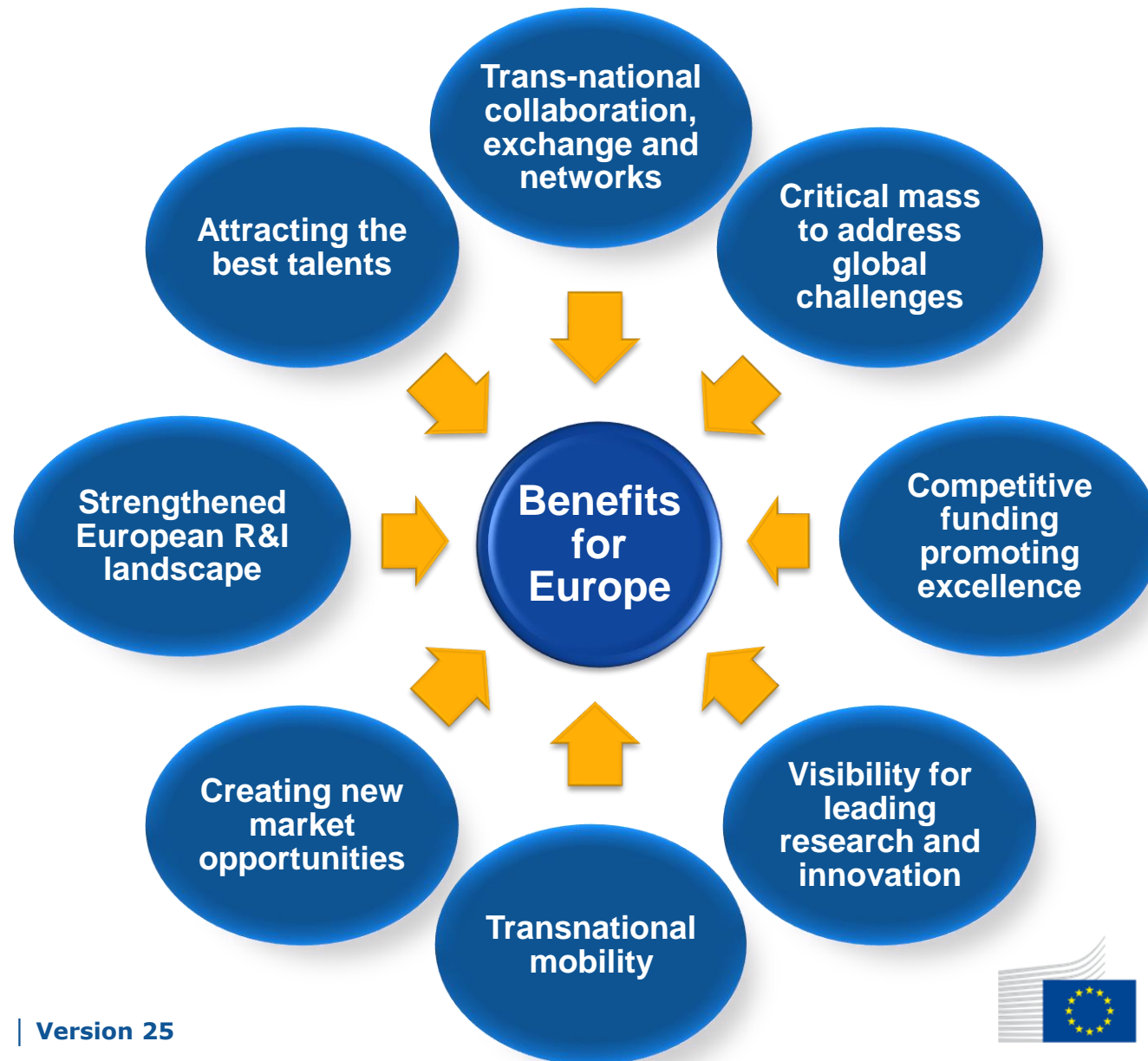


**to deliver on citizens' priorities and sustain our socio-economic model and values**

The Commission proposes a budget of € 100 billion for Horizon Europe.

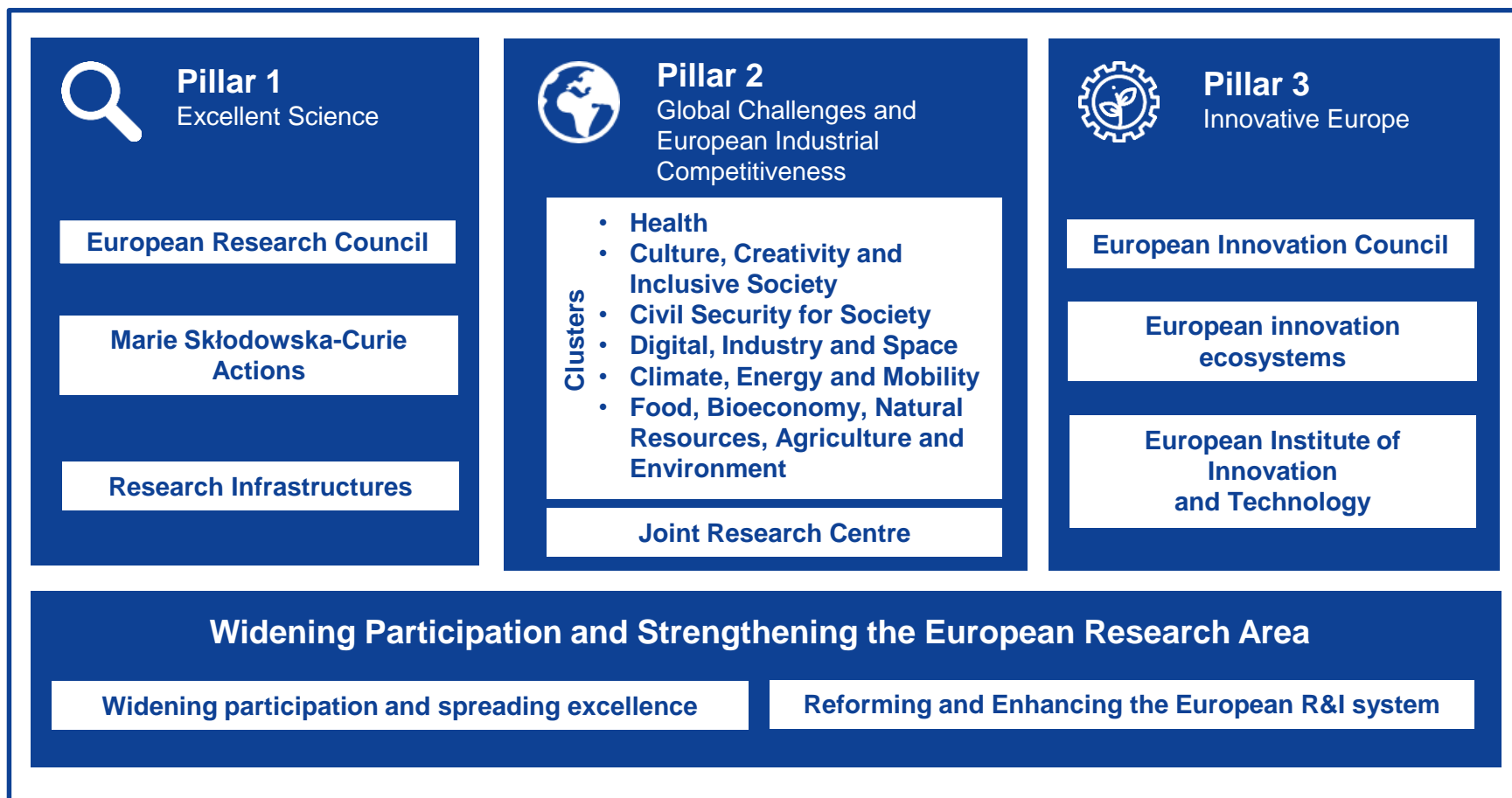


# Added value through Horizon Europe:

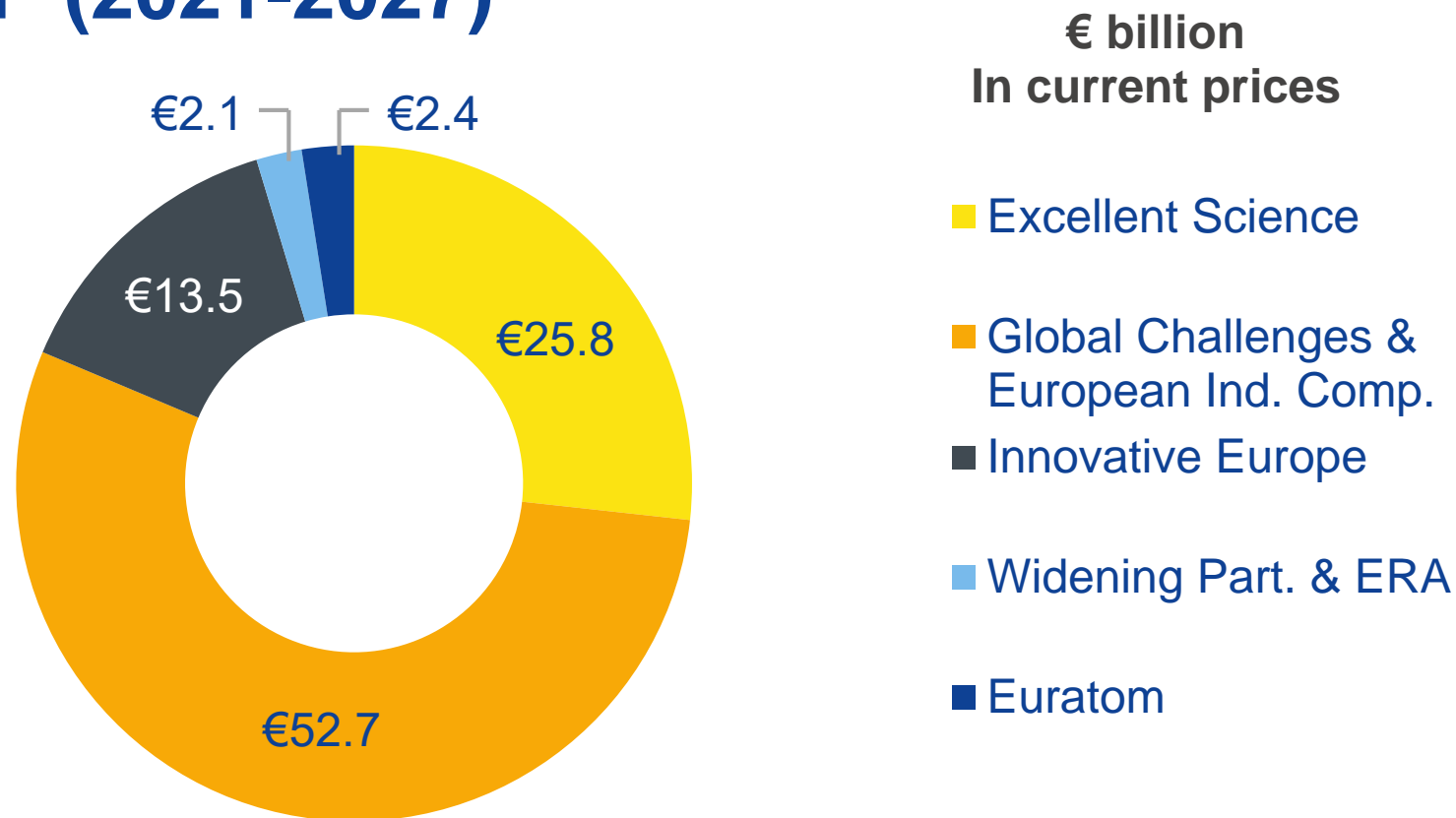


# Horizon Europe – Structure

# Horizon Europe: Preliminary structure



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



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



# 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



# 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, pro-  
active 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



# 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

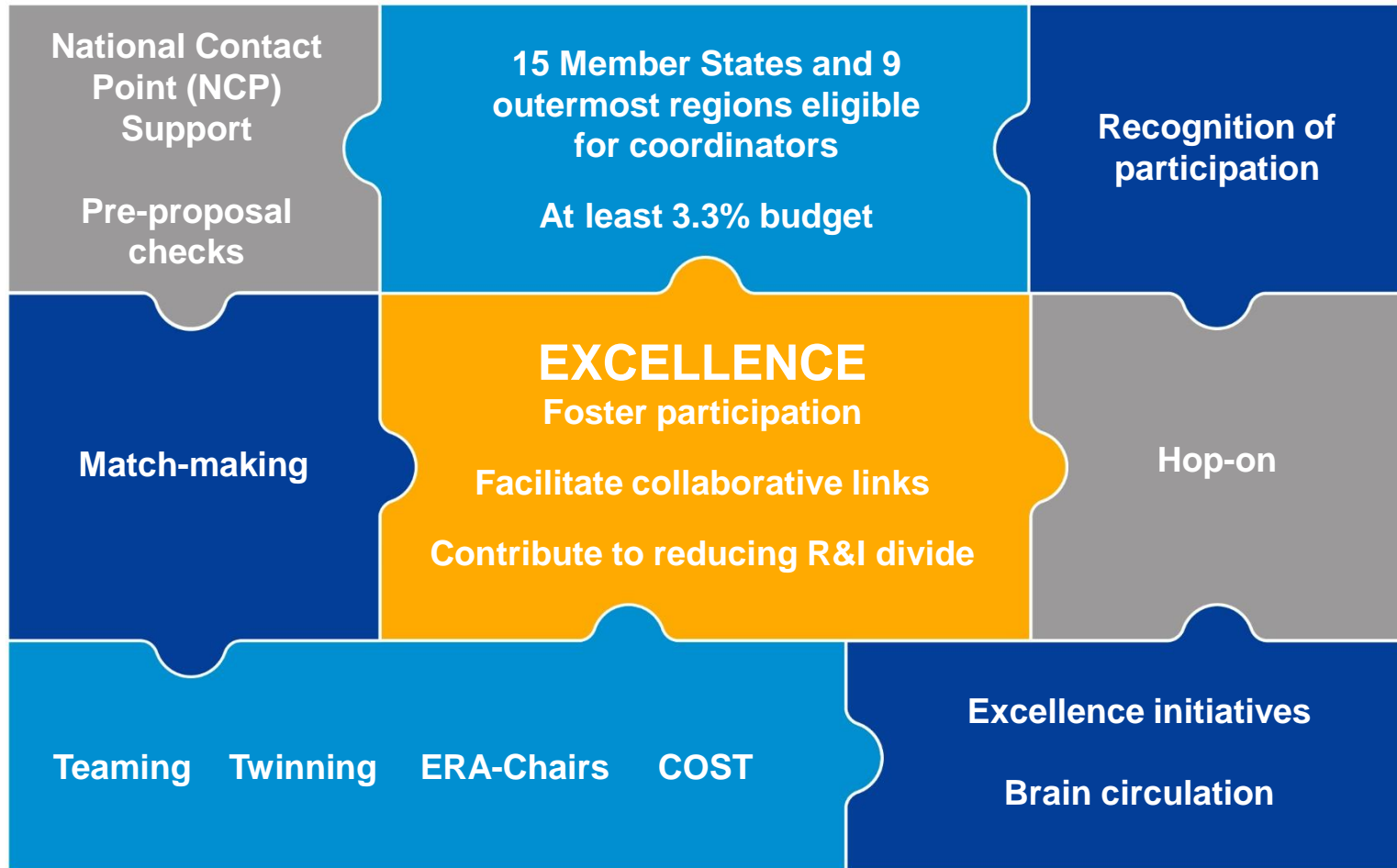
**Open Access to research data ensured:** in line with the principle "as open as possible, as closed as necessary"; Mandatory Data Management Plan for FAIR (Findable, Accessible, Interoperable, Re-usable) and Open Research Data

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





# Widening participation/spreading excellence



# Horizon Europe – Timeline

# Strategic plan gives direction to the work programme



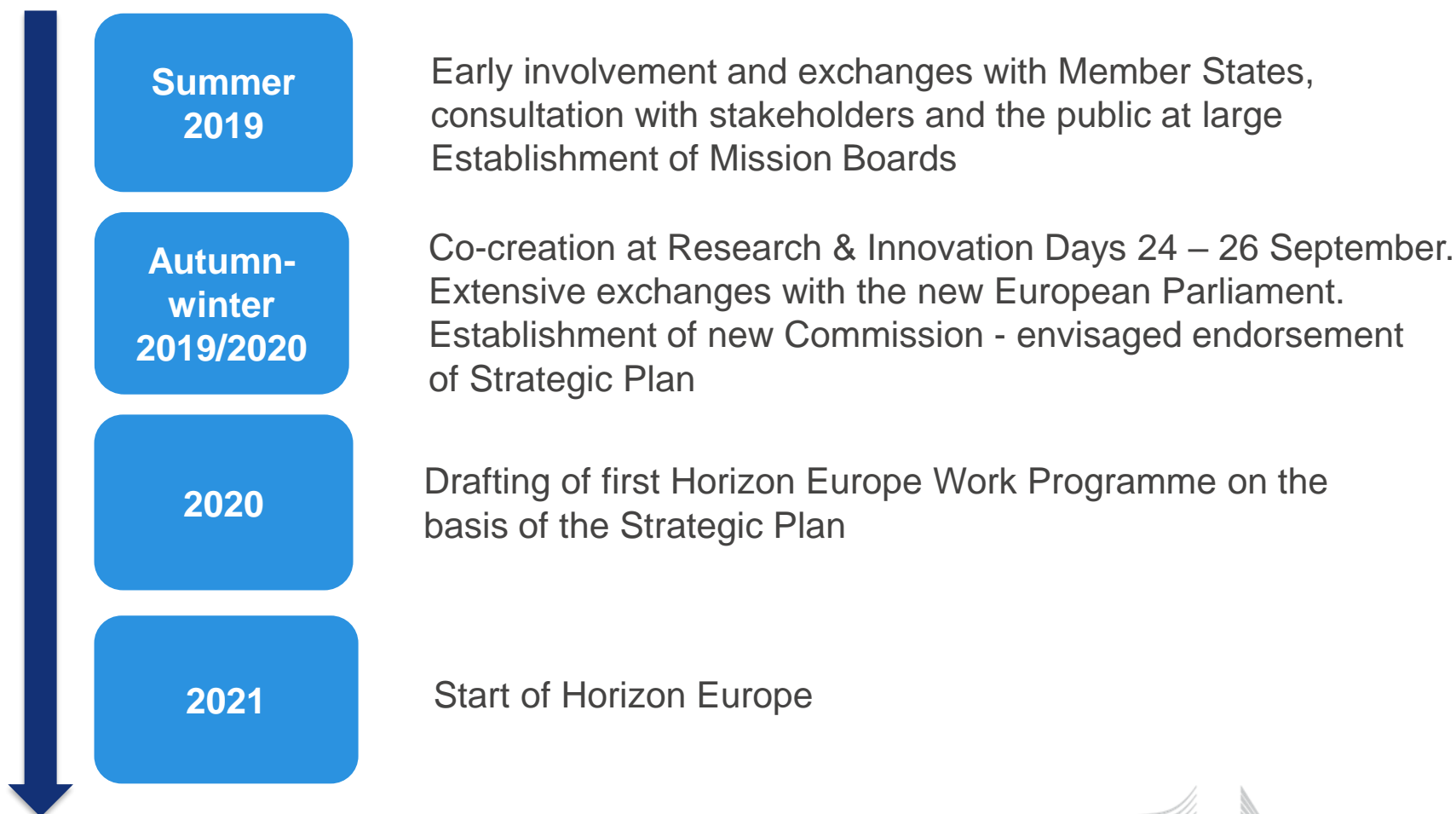
## Main Features

**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



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**Horizon Europe dedicated website**

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

**European Innovation Council**

<http://ec.europa.eu/research/eic>

**EU budget for the future**

[http://ec.europa.eu/budget/mff/index\\_en.cfm](http://ec.europa.eu/budget/mff/index_en.cfm)





# Thank you!

#HorizonEU

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