

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

Horizon Europe Missions

#HorizonEU



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Horizon Europe – aims, features, structure, budget

Horizon Europe – main aims

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)



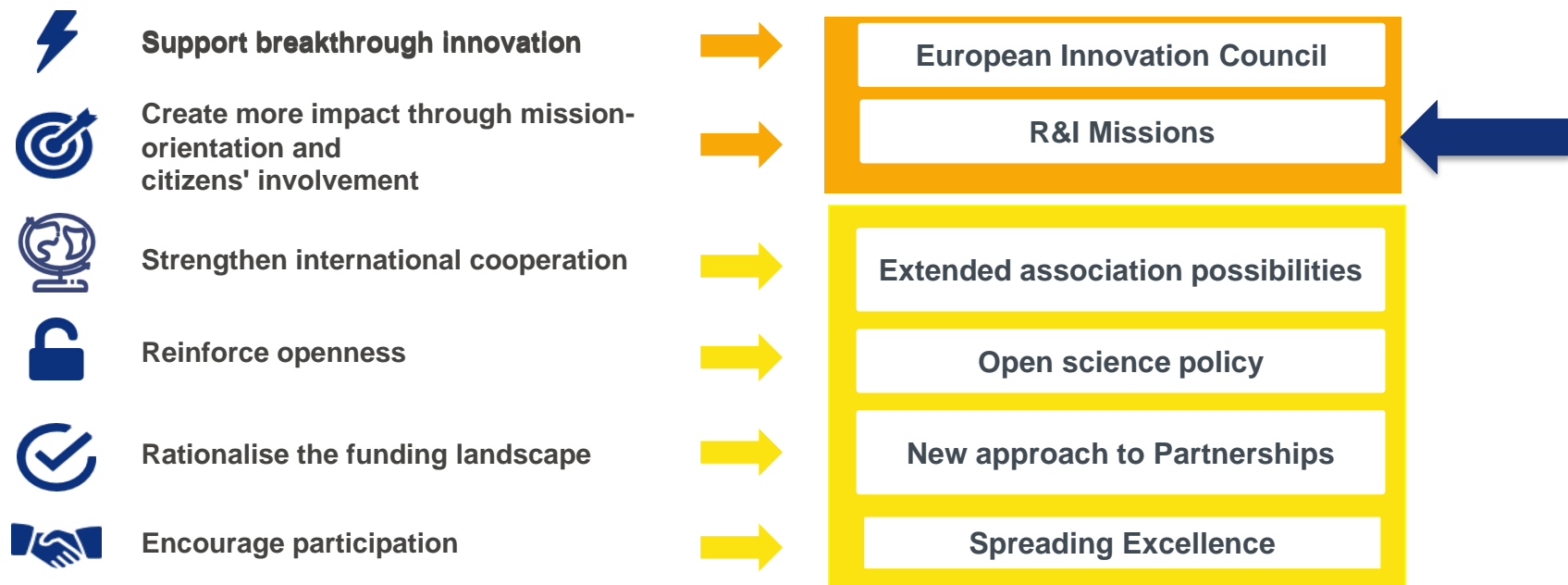
to boost Europe's innovation capacity, competitiveness and jobs



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

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

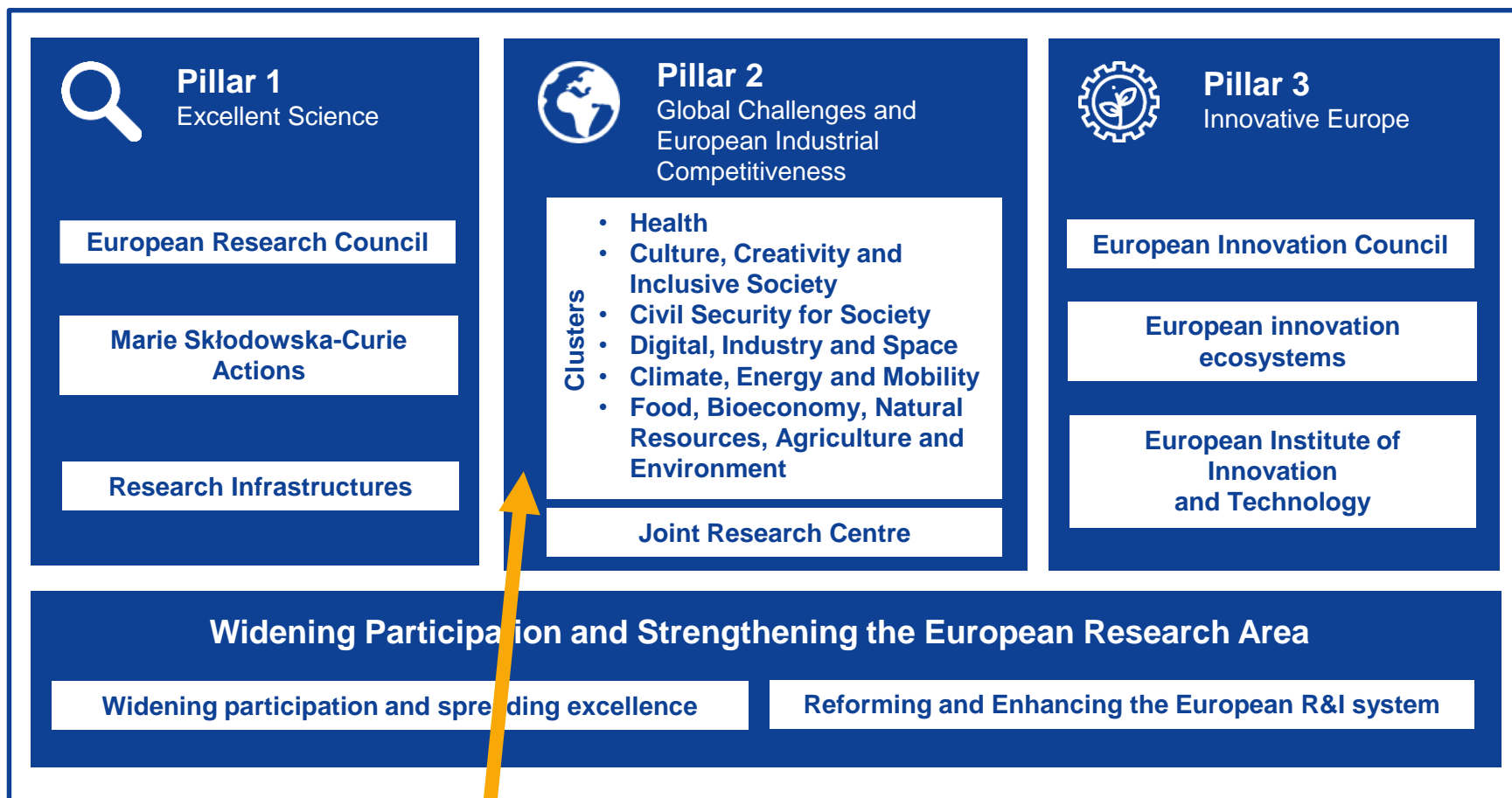
Horizon Europe – key features



Lessons Learned
from Horizon 2020 Interim Evaluation

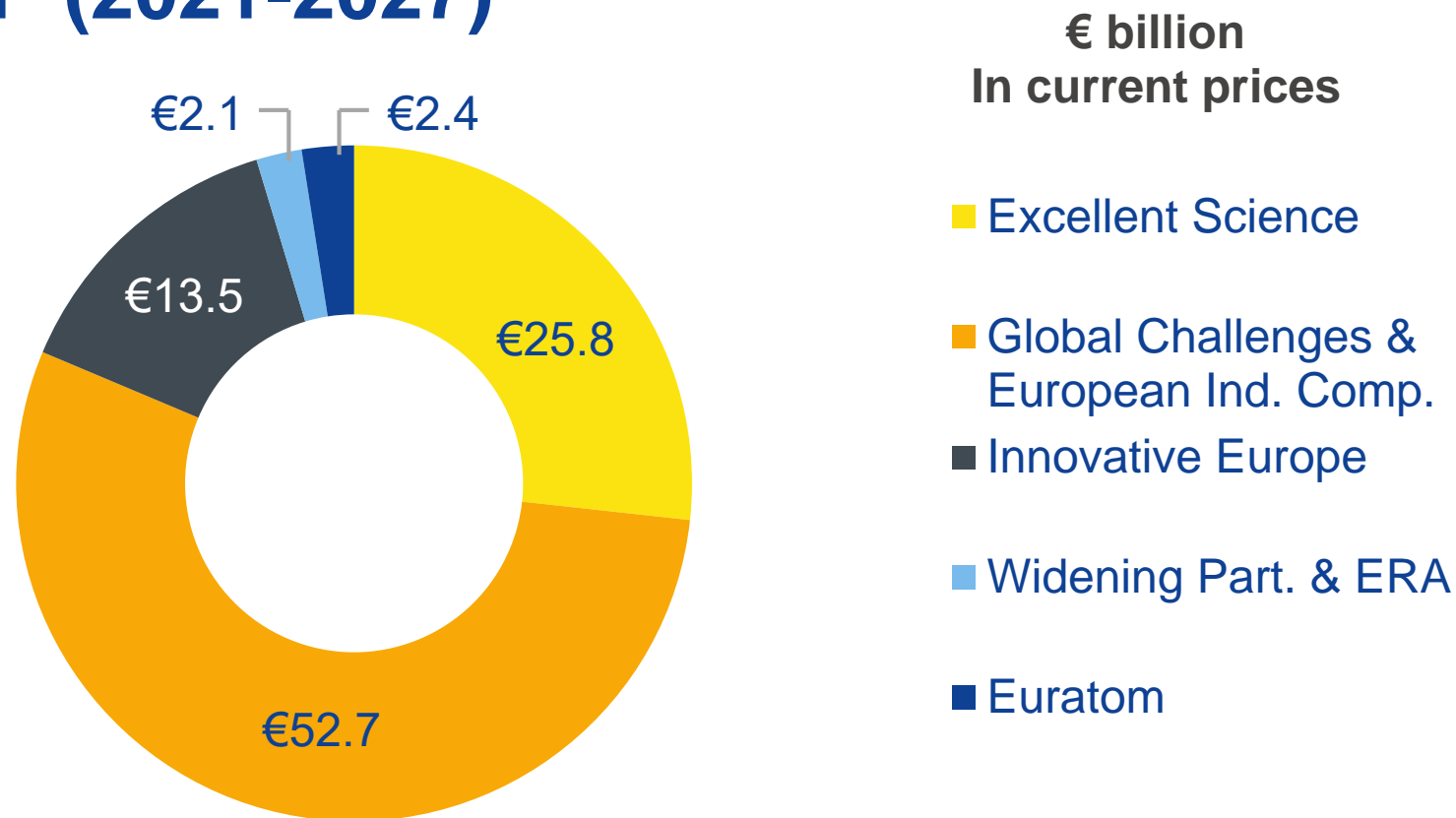
Key Novelties
in Horizon Europe

Horizon Europe: Preliminary structure



Missions

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



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

Missions – definition, origin of the idea, key reports

R&I Missions are...

Portfolios of actions
across disciplines

intended to achieve a bold,
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.



Lamy Report (2012)

Mission-oriented research and innovation

Key recommendations:

- a) Build a true EU innovation policy that creates future markets
- b) Design the EU R&I programme for greater impact
- c) Adopt a mission-oriented, impact-focused approach to address global challenges
- d) Privilege impact over process
- e) Mobilise and involve citizens
- f) Align EU, national and private R&I investments
- g) Capture and better communicate impact



1st Mazzucato Report (2018)

R&I Missions should..

- a) Be bold and inspirational, with wide societal relevance;
- b) Indicate a clear direction: targeted, measurable and time-bound;
- c) Be ambitious but realistic research and innovation actions;
- d) Spark innovation across disciplines, sectors and actors;
- e) Drive multiple, bottom-up solutions.

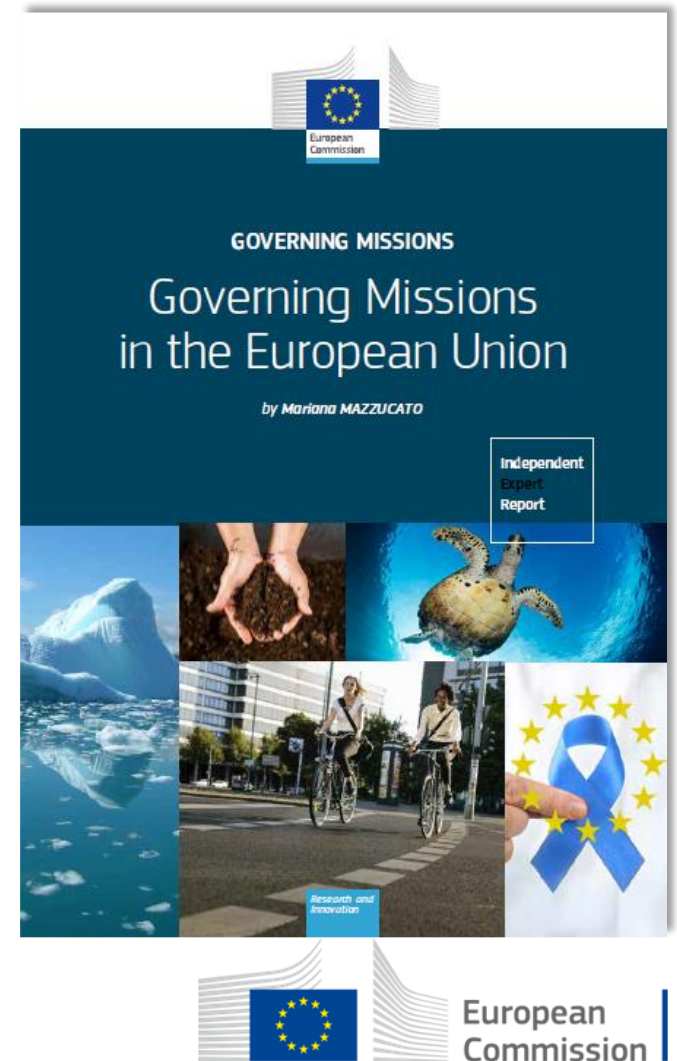


2nd Mazzucato Report (2019)

Implementation of R&I Missions

Key recommendations:

- Engage citizens in co-designing, co-creating, co-implementing and co-assessing missions
- Innovation in public sector capabilities
- Mission-oriented finance and funding to leverage and crowd-in other forms of finance



R&I Missions will...

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



Horizon Europe legislation on Missions and Mission Boards

Missions in HE legal text (Regulation)

Definitions in the FP Regulation

(5) 'mission' means a portfolio of excellence-based and impact-driven R&I actions across disciplines and sectors, intended to:

achieve, within a set timeframe, a measurable goal that could not be achieved through individual actions,

have impact on society and policy-making through science and technology, and be relevant for a significant part of the European population and a wide range of European citizens;

Missions in HE legal text (FP Regulation)

Article 7 (1, 2, 2a)

1. Missions shall be programmed within the pillar 'Global Challenges and European Industrial Competitiveness ', but may also benefit from actions carried out within other parts of the Programme as well as complementary actions carried out under other Union funding programmes. Missions shall allow for competing solutions, resulting in pan-European added value and impact.

2. The missions shall be defined and implemented in accordance with the Regulation and the Specific Programme, ensuring the active and early involvement of the Member States and extensive exchanges with the European Parliament. The missions, their objectives, budget, targets, scope, indicators and milestones shall be identified in the Strategic R&I Plans or the Work Programmes as appropriate. Evaluation of proposals under the missions shall be carried out in accordance with Article 26.

2 a. During the first three years of the programme, a maximum of 10% of the annual budget of Pillar II shall be programmed through specific calls for implementing the missions. For the remaining part of the programme, and only after a positive assessment of the mission selection and management process, this percentage may be increased. The Commission shall communicate the total budgetary share of each work programme dedicated to missions.

Missions in HE legal text (FP Regulation)

Article 7(3) of the FP Regulation.

Missions shall

(a) using SDGs as sources for their design and implementation, have a clear research and innovation content, EU-added value, and contribute to reaching Union priorities and commitments and Horizon Europe programme objectives laid down in Article 3;

(a a) cover areas of common European relevance, be inclusive, encourage broad engagement and active participation of various types of stakeholders from public and private sectors, including citizens and end-users, and deliver R&I results that could benefit all Member States;

(b) be bold and inspirational, hence have wide, scientific, technological, societal, economic, environmental or policy relevance and impact;

(c) indicate a clear direction and objectives and be targeted, measurable, time-bound and have a clear budget frame;

(d) be selected in a transparent manner and be centred on ambitious, excellence-based and impact-driven but realistic goals and research, development and innovation activities;

(d a) have the necessary scope, scale and mobilization of the resources and leverage of additional public and private funds required to deliver the mission outcome;

(e) stimulate activity across disciplines (including Social Sciences and Humanities) and encompassing activities from a broad range of TRLs, including lower TRLs;

(f) be open to multiple, bottom-up approaches and solutions taking into account human and societal needs and benefits and recognizing the importance of diverse contributions to achieve these missions.

(f a) benefit from synergies in a transparent manner with other Union programmes as well as with national and, where relevant, regional innovation ecosystems.

Missions in HE legal text (FP Regulation)

Article 7 (4)

4. The Commission shall monitor and evaluate each mission in accordance with Article 45, Article 47 and Annex V of this regulation, including progress towards short, medium and long-term targets, covering implementation, monitoring and phasing-out of the missions. An assessment of the first missions established under Horizon Europe shall take place no later than 2023 and before any decision is taken on creating new missions, continuing, terminating or redirecting ongoing missions. The results of this assessment shall be made public and shall include, but not limited to, the analysis of their selection process and of their governance, budget, focus and progress to date.

Mission Board in HE legal text (SP)

Article 5(3)

The mission board shall advise, without having decision-making powers, the Commission upon the following:

- (a) identification and design of one or more missions in the respective mission area according to the provisions and criteria as set out in Article 7 of [Framework Programme Regulation]*
- (b) content of work programmes and their revision as needed for achieving the mission objectives, with input from stakeholders and, where relevant, the public;*
- (c) characteristics of project portfolios for missions;*
- (d) adjustment actions, or termination if appropriate, based on implementation assessments according to the defined objectives of the mission;*
- (e) selection of independent expert evaluators following the provisions of Article 44 [of the Framework Programme Regulation], briefing of expert evaluators and evaluation criteria and their weighting;*
- (f) framework conditions which help achieve the objectives of the mission;*
- (g) communication, including on the performance and the achievements of the mission;*
- (h) policy coordination between relevant actors at different levels, in particular regarding synergies with other Union policies;*
- (i) key performance indicators.*

The advice of the mission boards shall be made public.

Mission Boards and their process

Adaptation to climate
change, including societal
transformation



Healthy
oceans,
seas,
coastal and
inland
waters



**5 Mission
areas**



Cancer

Climate-neutral
and smart cities



Soil health
and food

Chairs of the Mission Boards

Adaptation to Climate Change including Societal Transformation:

Ms Connie Hedegaard



Cancer:

Professor Walter Ricciardi,



Healthy Oceans, Seas, Coastal and inland Waters:

Mr Pascal Lamy



Climate-Neutral and Smart Cities:

Ms Hanna Gronkiewicz-Waltz



Soil health and Food:

Mr Cees Veerman



Steps towards Horizon Europe Strategic Plan & Missions in the Work Programme



R&I Missions – More on the process

- July-Nov 2018 – Five Mission areas are proposed into the legal basis
- Stabilisation of SP text, including Mission areas in Annex and Strategic Planning process
- Call & selection of Mission Board members:

Received 2000+ applications. Balance of researchers, innovators, NGOs and civil society

- Testing ideas with and inputs from the Mission Assembly
- Discussion with the shadow Programme Committee – starting Sep, 2019
- Finalisation of identified Missions in the Strategic Plan and then the first Work Programme



24 → 26
SEPTEMBER

Brussels 📍 BELGIUM

20
19

Tue
24
SEP

15:30 - 16:30 – The Missions – « Let's get started »

With Commissioner Carlos Moedas - missions are public policy initiatives with a systemic view and supported by research and innovation

Wed
25
SEP

Dedicated session to each Mission

Open debate with stakeholders on the key elements of the Mission design

Thu
26
SEP

Restricted meeting with Member States

Exchange of views on added-value of the missions implementation at European level

Horizon Village: 3 days of Interaction with interested stakeholders and citizens / A dedicated section per Mission

