

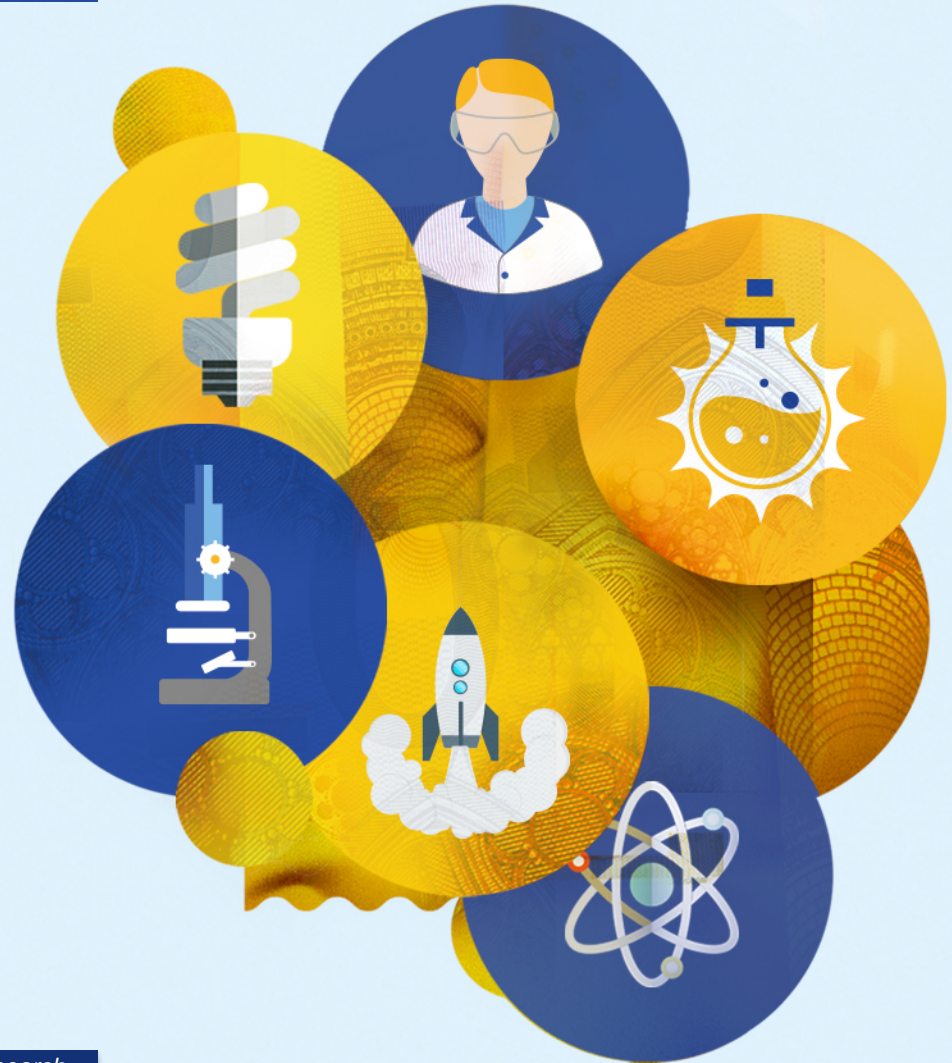
Commission proposal for **Horizon Europe**

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

#HorizonEU

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HORIZON EUROPE- EaP Plus Final Conference

Brussels 11 June 2019



Horizon Europe – changing and evolving proposal

is the Commission proposal for a **€100 billion** research and innovation funding programme for seven years (2021-2027)



to strengthen the EU's scientific and technological bases



to boost Europe's innovation capacity, competitiveness and jobs



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

Additional **€4.1 billion** are proposed to be allocated for defence research, which is specified in the European Defence Fund that is subject to a distinct and complementary proposal.

Horizon Europe: our chance to shape the future

- The vision:
 - “ a Europe that protects,
a Europe that empowers,
a Europe that defends”
Jean-Claude Juncker
- Tackling **climate change**
(35 % budgetary target)
- Helping to achieve **Sustainable Development Goals**
- Boosting the Union's **competitiveness and growth**



We must continue to nourish our scientific and technological base by

- Generating new and more knowledge and technologies
- Promoting and sharing scientific excellence
- Attracting the world's top scientists and innovators
- Fostering cross-sector and trans-national coordination between public and private R&I investment



33 %
of total employment in
Europe in knowledge-
intensive activities

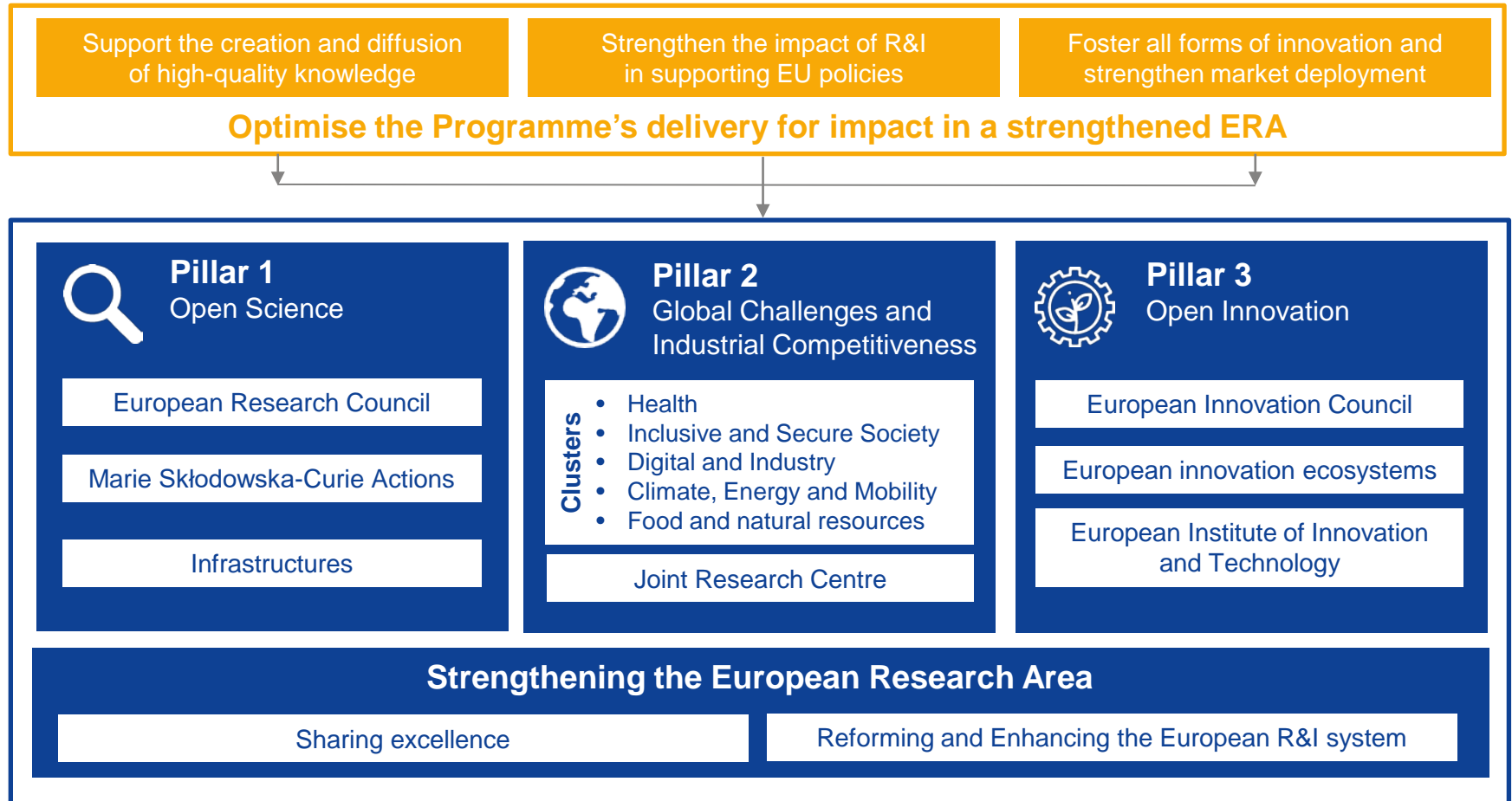
We must do better at turning scientific excellence into economic success by

- Innovation-friendly regulation and financing
- Becoming a frontrunner in breakthrough and disruptive market-creating innovation
- Reconnecting R&I with citizens through EU-wide research and innovation missions

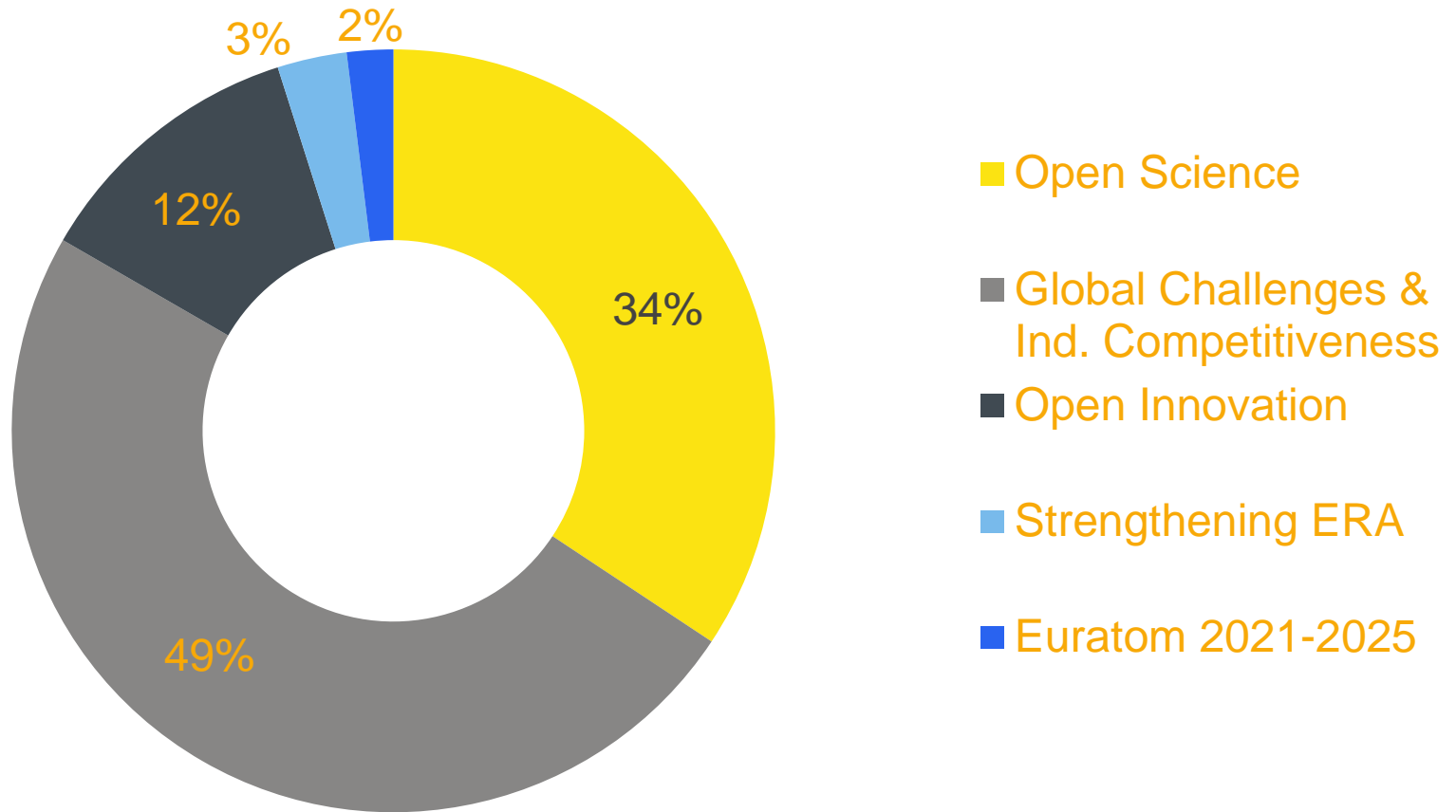


Horizon Europe

Specific objectives of the Programme



Budget* EUR 100 Billion - suggested



* In addition, this envelope includes EUR 3.5 billion allocated under the InvestEU Fund.

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

The EIC will support innovations with breakthrough and disruptive nature and scale up potential that are too risky for private investors.

**European
Innovation
Council**

**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 & blended finance
(from pre-commercial
to market & scale-up)



R&I Missions

R&I Missions

Connecting to citizens: Missions will relate EU's research and innovation to society and citizens' needs, with strong visibility and impact

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 criteria

Specific missions will be **co-designed with Member States, stakeholders and citizens** and programmed within the Global Challenges and Industrial Competitiveness pillar (drawing on inputs from other pillars)



Stakeholders support a mission-oriented approach

Impact Assessment annex 8-2

- Stakeholders support missions:
 - with potential **societal relevance**
 - to improve the **impact and visibility** of EU R&I
- Missions should be **limited in number**, easy to communicate, with a concrete budget and timeline, offering breakthrough potential and a clear EU added value
- **Cross-disciplinary**, non-prescriptive calls, citizen involvement



R&I Missions: how?

Art. 26 of the FP/RfP Regulation: **Evaluation**

Art. 5 of the SP Decision: **Missions**

Impact assessment annex 8-2

- A **mission board** may be established for each mission: around 15 members including end-users
- Mission Boards have an **advisory role** in designing the mission and its implementation
- Missions will be implemented through a coherent **portfolio** of projects
- Missions will be implemented **through existing executive agencies** according to the content of the mission



R&I Missions: what is expected ?

Broad stakeholder consultation carried out by the Commission:

- 1190 responses for 2074 proposed concrete missions
- Areas of digitisation/artificial intelligence (16%), health and well-being (10%), socio-economic transformation (10%) and sustainable production (7%)
- four areas of high potential for missions, and 10 areas of high potential for institutional partnerships
- Call for expressions of interest for a transparent composition of Mission Boards, one for each mission area (kick off in 2019), to validate (or invalidate) the mission with stakeholders, and advise on objectives, research and innovation tasks and specific requirements (societal aspects, international dimension etc.).



R&I Missions: what is expected ?

Potential Mission areas based on the consultation:

- Digitisation (Build the first universal quantum computer in Europe)
- Health (Beating cancer: Cure paediatric cancer)
- Clean Europe (Healthy Oceans: Eliminating plastic waste in rivers and seas)
- Food/Agriculture (Sustainable land)



International Cooperation

International Cooperation

Will ensure effective tackling of 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.)



International Cooperation

International Cooperation

Article 12 of the regulation sets 4 categories for openness to the world

1. EFTA (Iceland, Liechtenstein, Norway and Switzerland), and EEA Countries (EU + EFTA – Switzerland) – Extension of EU single market where Switzerland is in even if not EEA
2. Acceding countries (last one was Croatia), candidate countries (Albania, the Republic of North Macedonia, Montenegro, Serbia and Turkey) and potential candidates (Bosnia and Herzegovina and Kosovo)
3. Countries covered by the European Neighbourhood Policy (MENA Algeria, Morocco, Egypt, Israel, Jordan, Lebanon, Libya, State of Palestine, Syria, Tunisia, and EaP Armenia, Azerbaijan, Belarus, Georgia, Moldova, Ukraine).
4. Third countries BUT criteria are in place



International Cooperation

International Cooperation

Article 12 of the regulation sets 4 categories for openness to the world

Third countries openness criteria:

- Good science, technology and innovation capacity
- Rules-based open market economy (IPR and democratic institutions)
- Promotion of policies for economic and social wellbeing of citizens

Umbrella agreement covering participation to Union programmes, provided:

- Fair balance contribution and benefits
- Conditions for participation in the programmes (including financial contribution calculation to individual programme and admin costs)
- No decisional power on the programme
- Rights of the Union safeguarded for sound financial mtg and protection of EU financial interests



International Cooperation

International Cooperation

Article 12 of the regulation sets 4 categories for openness to the world

Conditionality for all:

➤ **EU interests**

Driving economic growth in the Union through innovation

➤ **Partial-association**

Part of the programme can be excluded from association agreement of a specific country (partial association)

➤ **Reciprocity**

Association agreement shall provide for the participation (where appropriate) of legal entities established in the Union in equivalent programmes of associated countries

➤ **Pay as you go**



New approach to European Partnerships

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

Key features

- **Simple 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 by partners; commitment of partners for financial and in-kind contributions & financial contribution by Horizon Europe

Institutional

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

Synergies with other Union programmes

Horizon Europe



Other Union Programmes,
including

Common Agricultural Policy
ERDF
External Instrument
Maritime & Fisheries Fund
InvestEU
ERDF
Connecting Europe Facility
Internal Security Fund
ESF+
Digital Europe
Space Programme
Erasmus
LIFE
Innovation 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

Strategic planning to define multiannual work programmes and calls for proposals

Objectives: Transparency and stakeholder involvement; impact maximisation; prioritisation; internal programme coherence; synergies with other programmes

Multiannual Strategic R&I Plan

- * Multiannual orientations and priorities in one document
- * Areas for partnerships and missions

Strategic discussions with Member States and European Parliament

Consultation with stakeholders

Work Programmes

Next steps



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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





Thank you!

#HorizonEU

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

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