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
Key impact pathways to track progress

1. Creating high-quality new knowledge
2. Strengthening human capital in R&I
3. Fostering diffusion of knowledge and Open Science
4. Addressing EU policy priorities & global challenges through R&I
5. Delivering benefits & impact via R&I missions
6. Strengthening the uptake of R&I in society
7. Generating innovation-based growth
8. Creating more and better jobs
9. Leveraging investments in R&I
Steps towards the first Horizon Europe work programme

**Summer 2019**
- Early involvement and exchanges with Member States, consultation with stakeholders and the public at large
- Establishment of Mission Boards

**Autumn-winter 2019/2020**
- Co-creation at Research & Innovation Days 24 – 26 September.
- Extensive exchanges with the new European Parliament.
- Establishment of new Commission - envisaged endorsement of Strategic Plan

**2020**
- Drafting of first Horizon Europe Work Programme on the basis of the Strategic Plan

**2021**
- Start of Horizon Europe
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
Pillar 1
Excellent Science

European Research Council

Marie Skłodowska-Curie Actions

Research Infrastructures

Pillar 2
Global Challenges and European Industrial Competitiveness

- Health
- Culture, Creativity and Inclusive Society
- Civil Security for Society
- Digital, Industry and Space
- Climate, Energy and Mobility
- Food, Bioeconomy, Natural Resources, Agriculture and Environment

Joint Research Centre

Pillar 3
Innovative Europe

European Innovation Council

European innovation ecosystems

European Institute of Innovation and Technology

Widening Participation and Strengthening the European Research Area

Widening participation and spreading excellence

Reforming and Enhancing the European R&I system
Pillar 1
Excellent Science
- European Research Council
- Marie Skłodowska-Curie Actions
- Research Infrastructures

Pillar 2
Global Challenges and European Industrial Competitiveness
- Clusters
  - Health
  - Culture, Creativity and Inclusive Society
  - Civil Security for Society
  - Digital, Industry and Space
  - Climate, Energy and Mobility
  - Food, Bioeconomy, Natural Resources, Agriculture and Environment
- Joint Research Centre

Pillar 3
Innovative Europe
- European Innovation Council
- European innovation ecosystems
- European Institute of Innovation and Technology

Widening Participation and Strengthening the European Research Area
- Widening participation and spreading excellence
- Reforming and Enhancing the European R&I system

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

- €2.7 billion
  - In current prices
  - Excellent Science
  - Global Challenges & European Ind. Comp.
  - Innovative Europe
  - Widening Part. & ERA
  - Euratom

* This envelope includes EUR 3.5 billion allocated under the InvestEU Fund.
Pillar 1
Excellent Science
- European Research Council
- Marie Skłodowska-Curie Actions
- Research Infrastructures

Pillar 2
Global Challenges and European Industrial Competitiveness
- Clusters
  - Health
  - Culture, Creativity and Inclusive Society
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Widening Participation and Strengthening the European Research Area
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5 November 2019
## Clusters in 'Global Challenges and Industrial Competitiveness'

<table>
<thead>
<tr>
<th>Clusters</th>
<th>Areas of intervention</th>
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| **Health**                                    | - Health throughout the life course  
- Non-communicable and rare diseases  
- Tools, technologies and digital solutions for health and care, including personalised medicine  
- Environmental and social health determinants  
- Infectious diseases, including poverty-related and neglected disease  
- Health care systems |
| **Culture, creativity and inclusive society** | - Democracy and Governance  
- Social and economic transformations  
- Culture, cultural heritage and creativity |
| **Civil security for society**                | - Disaster-resilient societies  
- Protection and Security  
- Cybersecurity |
| **Digital, Industry and space**               | - Manufacturing technologies  
- Advanced materials  
- Next generation internet  
- Circular industries  
- Space, including Earth Observation  
- Emerging enabling technologies  
- Key digital technologies, including quantum technologies  
- Artificial Intelligence and robotics  
- Advanced computing and Big Data  
- Low-carbon and clean industry  
- Emerging enabling technologies |
| **Climate, Energy and Mobility**              | - Climate science and solutions  
- Energy systems and grids  
- Communities and cities  
- Industrial competitiveness in transport  
- Smart mobility  
- Energy supply  
- Buildings and industrial facilities in energy transition  
- Clean, safe and accessible transport and mobility  
- Energy storage |
| **Food, bioeconomy, natural resources, agriculture and environment** | - Environmental observation  
- Agriculture, forestry and rural areas  
- Circular systems  
- Food systems  
- Biodiversity and natural resources  
- Seas, oceans and inland waters  
- Bio-based innovation systems in the EU Bioeconomy |
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
European Parliament and Council reached a common understanding on Horizon Europe on 19 March 2019

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- Commission has started preparations for the implementation of Horizon Europe
Links

- EC website on Horizon Europe
- Mission Board members
- Mission Assembly members