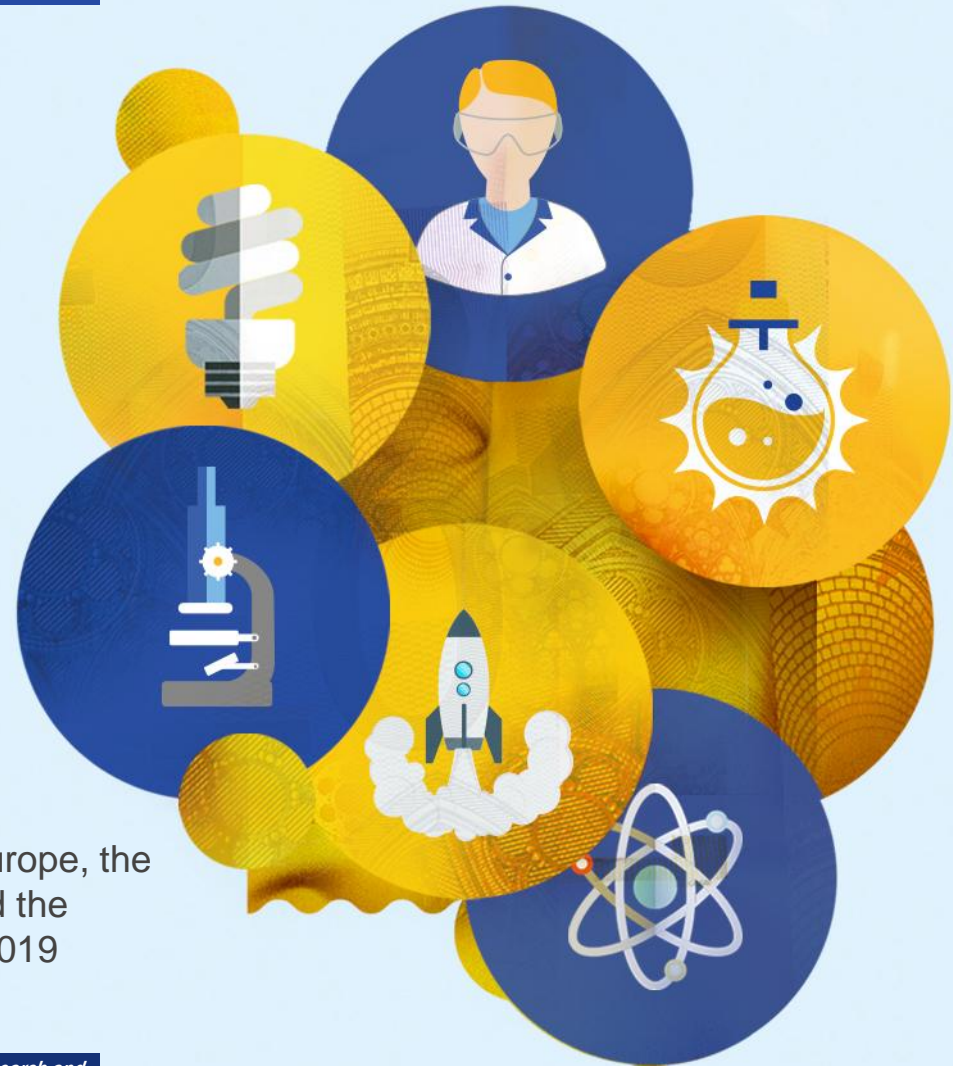


# Horizon Europe

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

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**

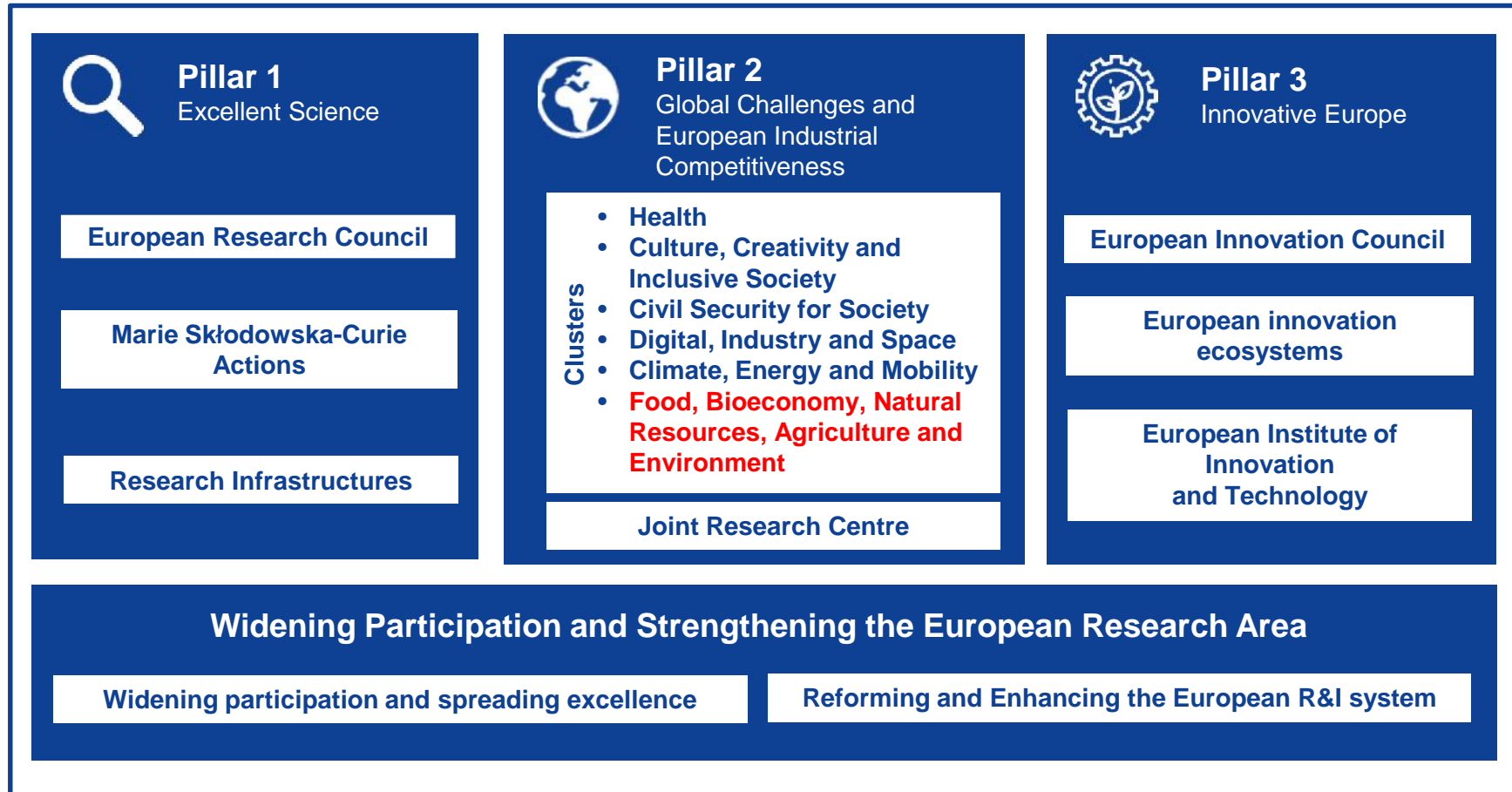
The Commission proposes a budget of € 100 billion for Horizon Europe.

# 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: Preliminary structure



## Clusters in 'Global Challenges and Industrial Competitiveness'

Clusters	Areas of intervention	
<b>Health</b>	<ul style="list-style-type: none"> <li>• Health throughout the life course</li> <li>• Non-communicable and rare diseases</li> <li>• Tools, technologies and digital solutions for health and care, including personalised medicine</li> </ul>	<ul style="list-style-type: none"> <li>• Environmental and social health determinants</li> <li>• Infectious diseases, including poverty-related and neglected disease</li> <li>• Health care systems</li> </ul>
<b>Culture, creativity and inclusive society</b>	<ul style="list-style-type: none"> <li>• Democracy and Governance</li> <li>• Social and economic transformations</li> </ul>	<ul style="list-style-type: none"> <li>• Culture, cultural heritage and creativity</li> </ul>
<b>Civil security for society</b>	<ul style="list-style-type: none"> <li>• Disaster-resilient societies</li> <li>• Protection and Security</li> </ul>	<ul style="list-style-type: none"> <li>• Cybersecurity</li> </ul>
<b>Digital, Industry and space</b>	<ul style="list-style-type: none"> <li>• Manufacturing technologies</li> <li>• Advanced materials</li> <li>• Next generation internet</li> <li>• Circular industries</li> <li>• Space, including Earth Observation</li> <li>• Emerging enabling technologies</li> </ul>	<ul style="list-style-type: none"> <li>• Key digital technologies, including quantum technologies</li> <li>• Artificial Intelligence and robotics</li> <li>• Advanced computing and Big Data</li> <li>• Low-carbon and clean industry</li> <li>• Emerging enabling technologies</li> </ul>
<b>Climate, Energy and Mobility</b>	<ul style="list-style-type: none"> <li>• Climate science and solutions</li> <li>• Energy systems and grids</li> <li>• Communities and cities</li> <li>• Industrial competitiveness in transport</li> <li>• Smart mobility</li> </ul>	<ul style="list-style-type: none"> <li>• Energy supply</li> <li>• Buildings and industrial facilities in energy transition</li> <li>• Clean, safe and accessible transport and mobility</li> <li>• Energy storage</li> </ul>
<b>Food, bioeconomy, natural resources, agriculture and environment</b>	<ul style="list-style-type: none"> <li>• Environmental observation</li> <li>• Agriculture, forestry and rural areas</li> <li>• Circular systems</li> <li>• Food systems</li> </ul>	<ul style="list-style-type: none"> <li>• Biodiversity and natural resources</li> <li>• Seas, oceans and inland waters</li> <li>• Bio-based innovation systems in the EU Bioeconomy</li> </ul>

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# Lessons Learned

## from Horizon 2020 Interim Evaluation

-  Support breakthrough innovation →
-  Create more impact through mission-orientation and citizens' involvement →
-  Strengthen international cooperation →
-  Reinforce openness →
-  Rationalise the funding landscape →
-  Encourage participation →

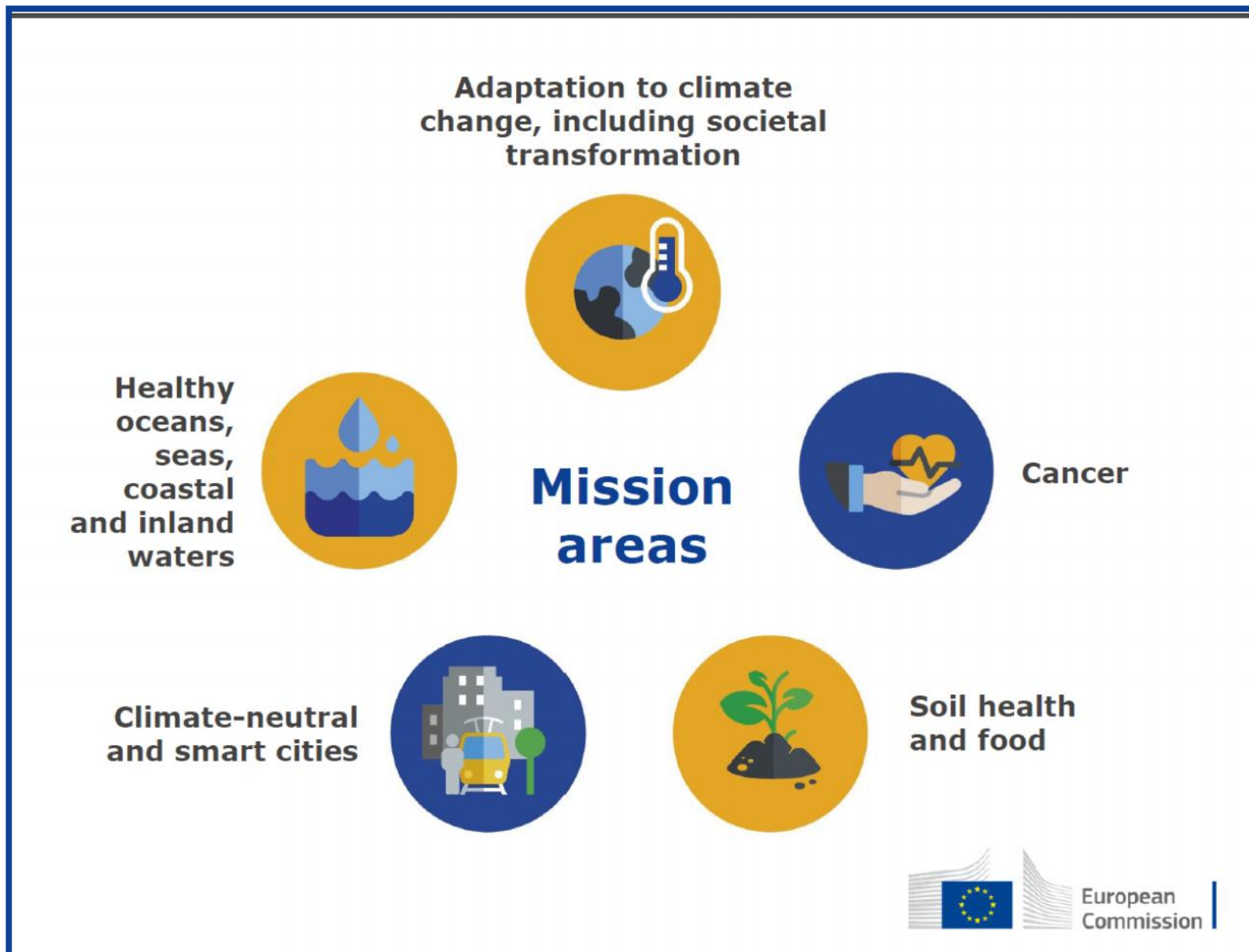
# Key Novelties

## in Horizon Europe

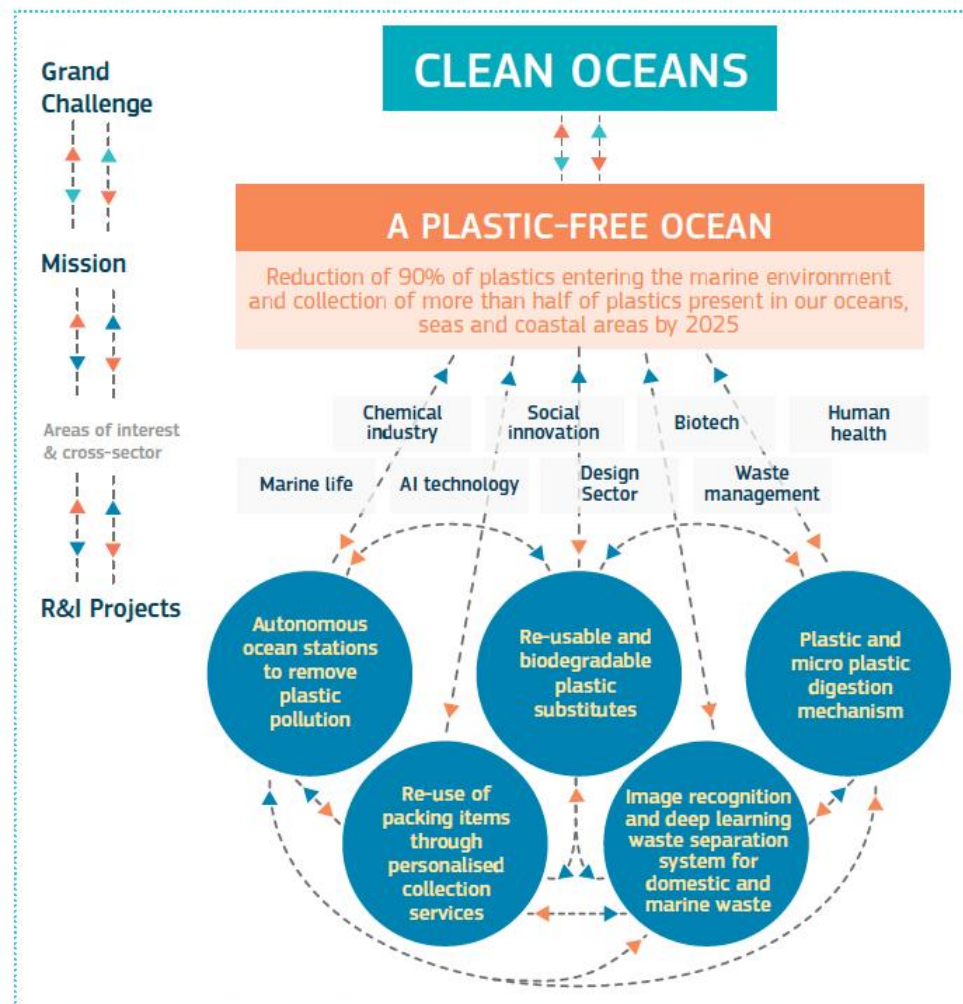




# Horizon Europe – Mission areas



# Horizon Europe – Mission areas



A problem-solving approach to fuel innovation-led growth by Mariana MAZZUCATO

[https://ec.europa.eu/info/sites/info/files/mazzucato\\_report\\_2018.pdf](https://ec.europa.eu/info/sites/info/files/mazzucato_report_2018.pdf)

# Horizon Europe - New approach to 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

# 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



# Thank you!

#InvestEUresearch

#HorizonEU

[https://ec.europa.eu/info/designing-next-research-and-innovation-framework-programme/what-shapes-next-framework-programme\\_en?pk\\_campaign=rtd\\_news](https://ec.europa.eu/info/designing-next-research-and-innovation-framework-programme/what-shapes-next-framework-programme_en?pk_campaign=rtd_news)

#H2020SC2

[www.ec.europa.eu/research/bioeconomy](http://www.ec.europa.eu/research/bioeconomy)

[www.ec.europa.eu/agriculture/research-innovation\\_en](http://www.ec.europa.eu/agriculture/research-innovation_en)

Participant Portal

<http://ec.europa.eu/research/participants/portal/desktop/en/home.html>