

# **Horizon Europe**

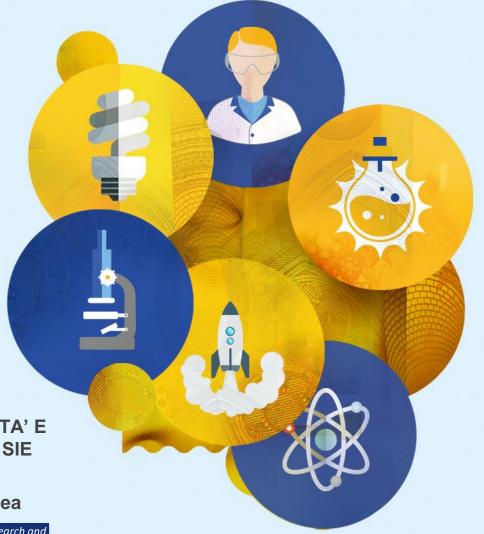
THE NEXT EU RESEARCH & INNOVATION INVESTMENT PROGRAMME (2021 – 2027)

## #HorizonEU

INNOVAZIONE E COMPETITIVITA, OPPORTUNITA' E INCLUSIONE: L'EVENTO ANNUALE DEI FONDI SIE 26 novembre 2020

Niccolò Querci – DG R&I – Commissione Europea

Research and Innovation



## R&I as driver and enabler of change

Europe faces **societal**, **ecological and economic challenges**, aggravated by **#coronavirus** → **research and innovation** are best placed to:



and new solutions
in areas such as
the decarbonisation
of industry or
sustainable mobility



Strengthen resilience and prepare crises

health, digital, socioeconomic and climate R&I are essential



Support Europe's competitive edge

in the global race for knowledge and tech sovereignty in cybersecurity, space, AI, 5G and e-mobility



## **Horizon Europe: Structure**





#### Pillar 2

Global Challenges and **European Industrial** Competitiveness

- Health
- **Culture, Creativity and Inclusive Society**

- o Climate, Energy and Mobility

  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



# A Climate Resilient Europe - Prepare Europe for climate disruptions and accelerate the transformation to a climate resilient and just Europe by 2030

Mission Starfish 2030: Restore our Ocean and Waters



Conquering
Cancer: Mission
Possible

From 'mission areas' to Missions

100 Climate-Neutral Cities by 2030 - by and for the citizens





Caring for Soil is Caring for Life

A final decision on mission to bring forward is pending Titles are mission board proposals and are due to be refined



# Portfolio of candidates for European Partnerships (49)

#### **HEALTH**

EU-Africa Global Health (EDCTP3)
Innovative Health Initiative

Partnership for Risk Assessment of Chemicals
Fostering an ERA for Health Research
Transformation of Health Care Systems
Personalised Medicine

**Rare Diseases** 

One Health / Antimicrobial Resistance

#### **CLIMATE, ENERGY AND MOBILITY**

Europe's Rail
Integrated Air Traffic Management;

Clean Aviation
Clean Hydrogen
Batteries

Zero-emission Waterborne Transport Towards zero-emission road transport Connected and Automated Mobility

**Built4People** 

Driving urban transitions to a sustainable future

Clean Energy Transition

#### **DIGITAL, INDUSTRY AND SPACE**

High Performance Computing
Key Digital Technologies
Smart Networks and Services
Photonics; AI, data and robotics
Clean Steel - Low Carbon Steelmaking
European Metrology; Made in Europe
Processes4Planet

**Global competitive space systems** 

FOOD, BIOECONOMY, NATURAL RESOURCES, AGRICULTURE AND ENVIRONMENT

Accelerating farming systems transition

Animal Health and Welfare

Agriculture of Data

Rescuing biodiversity to Safeguard Life on Earth
A climate neutral, sustainable and productive Blue
Economy

Safe and Sustainable Food System for People, Planet & Climate

Circular bio-based Europe

**Water4All: Water security for the planet** 

## PILLAR III AND CROSS-PILLAR

EIT Climate KIC
EIT Health
EIT Manufacturing
EIT Food
EIT InnoEnergy
EIT Raw Materials
EIT Digital
EIT Urban Mobility
EIT Cultural and
Creative Industries
Innovative SMEs
European Open Science
Cloud (EOSC)

Cluster allocation tbc

Pandemic preparedness
and societal resilience



# Annex IV to the Horizon Europe Regulation

- strategic alignment



## **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



# Steps towards the publication of 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

Autumnwinter 2019/2020

Co-creation at Research & Innovation Days 2019 and 20. Extensive exchanges with the European Parliament. New Commission takes office

2020

Drafting of Strategic Plan integrating Commission priorities, Adoption Horizon Europe Work Programme after reassurance of budget drafted on the basis of the Strategic Plan

2021

Adoption of first Horizon Europe Work Programmes and start of Horizon Europe





"With Horizon Europe, we step up our ambition for a sustainable future. The programme will maximise its impact by strengthening our scientific and technological bases, boosting our innovation capacity, driving the green and digital transitions and supporting an inclusive recovery."

Mariya Gabriel, **Commissioner for Innovation, Research, Culture, Education and Youth.** 29/9/2020







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