



# HORIZON EUROPE

## THE EU RESEARCH & INNOVATION PROGRAMME

2021 – 2027

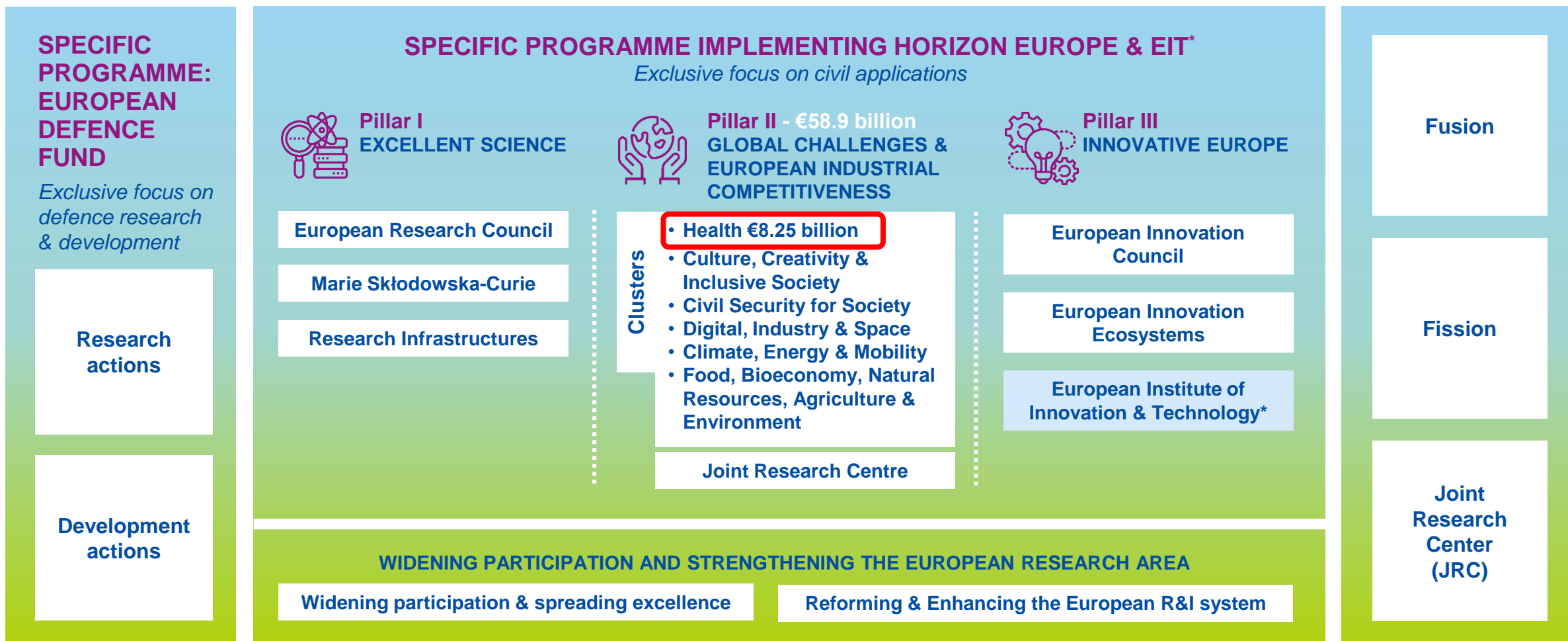
### Cluster 1 Health



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# HORIZON EUROPE (2021-2027)

# EURATOM



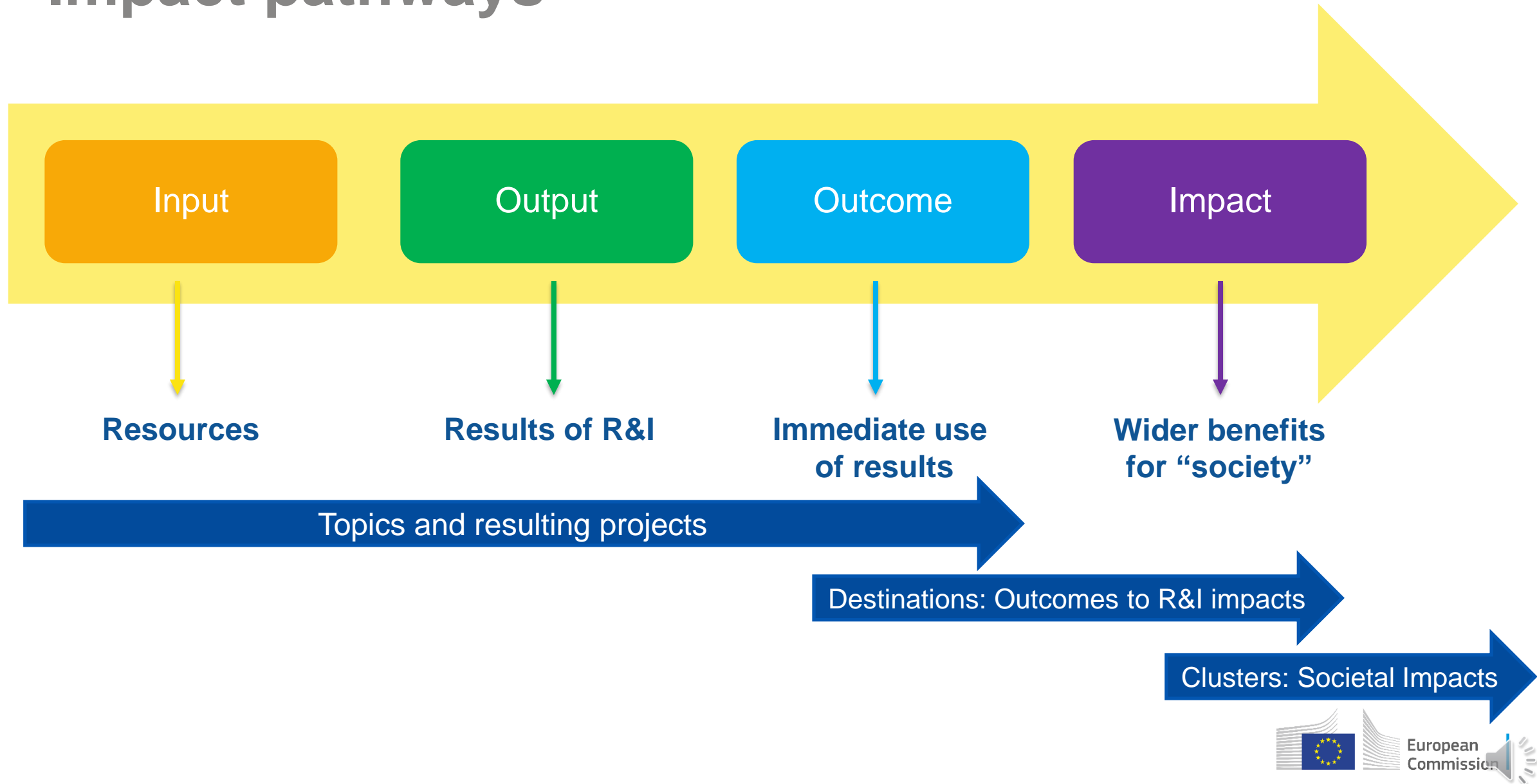
\* The European Institute of Innovation & Technology (EIT) is not part of the Specific Programme

# Horizon Europe – Cluster 1 - Health

## Six “Destinations”:

1. Staying healthy in a rapidly changing society
2. Living and working in a health-promoting environment
3. Tackling diseases & reducing disease burden
4. Ensuring access to innovative, sustainable & high-quality Healthcare
5. Unlocking the full potential of new tools, technologies and digital solutions for a healthy society
6. Maintaining an innovative, sustainable & globally competitive health industry

# Impact pathways



# Horizon Europe – Cluster 1 „Health“

Strategic Plan 2021-24 ([link](#)) → 6 Expected Impacts

↳ Work Programme 2021-22 ([link](#))

## 6 “Destinations”

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## Topics (Calls)

Focus on outcomes contributing to the impacts specified per Destination

Project proposals should

- make a **clear case** (*value proposition*)
- supported by a **convincing trajectory** (*pathway to impact*) for the project proposal to deliver the **output**, promote the **outcome** described in the topic, and contribute to the **impact** expected under that destination.

# Horizon Europe – Cluster 1 ‘Health’

## Examples for Pathways-to-Impact (simplified)

### Output

e.g.

- **Knowledge and understanding** of health and diseases
- **Methodological and technological solutions** to address health and diseases
- **Know-how and capabilities** for designing, developing and implementing health technologies and services, including sustainable processes for producing safe and effective tools and health technologies
- **Evidences and recommendations** for health policy, regulation and clinical practice

### Outcome

e.g.

- **Citizens** are encouraged to make evidence-based life style choices and empowered to control and manage their own health
- **Health care workers** apply new evidences, health technologies and health care approaches that are more effective, accessible and sustainable
- **Health care providers** make full use of health data using data-driven decision support systems for people-centered services
- **Policy-makers and regulators** use new evidences, tools and guidelines for informed public health policies and actions
- **Researchers and developers** of medical interventions understand predisposing factors for health disorders and diseases, and the transition from health to illness

### Impact

e.g.

- **Citizens** of all ages stay healthy and independent in a rapidly changing society
- **Health care providers** are able to better tackle and manage diseases and reduce the disease burden on patients effectively
- **Health care systems** provide equal access to innovative, sustainable and high-quality health care
- **EU health industry** is innovative, sustainable and globally competitive
- **Living and working environments** are health-promoting and sustainable

# WP 2022 – Info Day – 28 October 2021

[https://ec.europa.eu/info/research-and-innovation/events/upcoming-events/horizon-europe-info-days/cluster-1\\_en](https://ec.europa.eu/info/research-and-innovation/events/upcoming-events/horizon-europe-info-days/cluster-1_en)

Welcome / clinical studies / Gender equality: <https://www.youtube.com/watch?v=QIOXaFAjmXQ>

Dest 1: <https://www.youtube.com/watch?v=QdrCkDvr9Eg>

Dest 2: <https://www.youtube.com/watch?v=fpfhwdDkLB0>

Dest 3: <https://www.youtube.com/watch?v=iKUDo8la5EI>

Dest 4: <https://www.youtube.com/watch?v=7Jz6D0aXObo>

Dest 5: <https://www.youtube.com/watch?v=U6C6GEjYdek>

Dest 6: <https://www.youtube.com/watch?v=xHb-5awmeyk>

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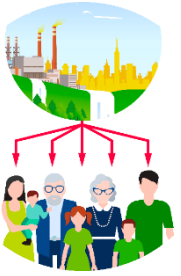
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# Destination 1: Staying healthy in a rapidly changing society



*Disclaimer: information not legally binding*

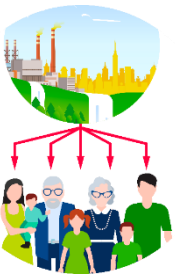




# Destination 1: Staying healthy in a rapidly changing society

**Citizens of all ages stay healthy and independent in a rapidly changing society thanks to healthier lifestyles and behaviours, healthier diets, healthier environments, improved evidence-based health policies, and more effective solutions for health promotion and disease prevention.**

- Key Strategic Orientation: ‘Creating a more resilient, inclusive and democratic European society’
- Impact areas:
  - Good health and high-quality accessible health care
  - High quality digital services for all
  - Sustainable food systems from farm to fork on land and sea
  - Climate change mitigation and adaptation



# Destination 1: Expected impacts

- **Citizens adopt healthier lifestyles and behaviours**, make healthier choices and maintain longer a healthy, independent and active life with a reduced disease burden, including at old ages or in other vulnerable stages of life.
- **Citizens** are able and **empowered** to manage better their own physical and mental health and well-being, monitor their health, and interact with their doctors and health care providers.
- **Citizens' trust in knowledge-based health interventions and in guidance from health authorities is strengthened**, including through improved health literacy (including at young ages), resulting in increased engagement in and adherence to effective strategies for health promotion, diseases prevention and treatment, including increased vaccination rates and patient safety.
- **Health policies and actions for health promotion and disease prevention** are knowledge-based, people-centred and thus targeted to **citizens' needs**, and designed to **reduce health inequalities**.

# Destination 1: Topics in 2022

- HORIZON-HLTH-2022-STAYHLTH-01-01:  
**Boosting mental health in Europe in times of change**
- Closure: **1.2.2022 1<sup>st</sup> stage**
- Instrument: RIA
- Tot: 50M€
- Project size: 7M€

- HORIZON-HLTH-2022-STAYHLTH-01-04:  
**Trustworthy AI tools to predict the risk of chronic non-communicable diseases and/or their progression**
- Closure: **1.2.2022 1<sup>st</sup> stage**
- Instrument: RIA
- Tot: 60M€
- Project size: 6M€

- HORIZON-HLTH-2022-STAYHLTH-01-05:  
**Prevention of obesity throughout the life course**
- Closure: **1.02.2022 1<sup>st</sup> stage**
- Instrument: RIA
- Tot: 60M€
- Project size: 10M€

- HORIZON-HLTH-2022-STAYHLTH-02-01:  
**Personalised blueprint of chronic inflammation in health-to-disease transition**
- Closure: **21.4.2022 Single stage**
- Tot: 50M€
- Project size: 7M€

# Boosting mental health in Europe in times of change

**Expected outcome** (contributing to **all of the following** elements)

- **Health care professionals, national/regional public authorities and other relevant actors:**
  - Have access to and apply new strategies and interventions for the promotion of mental health and the prevention of mental ill health, with focus on vulnerable populations;
  - Adopt clinical guidelines, practices, strategies and policy recommendations to mitigate the mental health burden in a transforming Europe;
- The **scientific community together with the public authorities** anticipate new and emerging risks to mental health associated with a transforming Europe, contributing to better and inclusive public mental health preparedness.
- **Citizens** have access to and make use of new tools and services to take informed decisions about their wellbeing and mental health care needs (including for self-management and self-care).
- **Citizens** feel less stigmatised and marginalised due to their mental ill health.

# Boosting mental health in Europe in times of change

**Scope** (address **one or several of the following** elements)

- Provide a **comprehensive knowledge base** of how a transforming Europe can influence mental health in a fast-evolving society, especially in the most vulnerable populations
- Develop and implement **interventions, which promote wellbeing and prevent mental illness** to help cope with and mitigate the stress of a changing society, including digitalisation, climate change and the impact of the COVID-19 pandemic.
- The interventions should **target relevant settings** (e.g. workplaces, schools) and the **most vulnerable populations** (e.g. children and adolescents, the elderly, people with pre-existing health conditions and socio-economic high-risk groups).
- Inform policy-makers and regulators on: i) the **prevalence and burden of mental ill health** related to a transforming European society (e.g. digital technologies, climate change, etc); and/or ii) the **effects of a transforming European society** (including transition to “green jobs”) on **occupational mental health**; and/or iii) **the (comparative) cost-effectiveness** of interventions/policy choices.

## Additional conditions

- Research should be multidisciplinary, including medical sciences, social sciences, the humanities, and the arts, if relevant. It is important to consider aspects such as (associated) behavioural patterns, stigma and novel social dynamics as well as different socioeconomic, cultural and geographical contexts.
- Proposals should involve end-users (including civil society organisations) and/or strategic partners in the design and during the course of the project. Possible end-users and strategic partners could include local or regional authorities, community services, employers, schools/universities, ...
- Propose ideas and foresee a budget for joint activities with other projects: to be finalised during the grant agreement preparation!

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# European Partnerships



# Lessons Learned

from Horizon 2020 Interim Evaluation



Support breakthrough innovation



Create more impact through mission-orientation and citizens' involvement



**Rationalise partnerships' landscape**



Reinforce openness



Strengthen international cooperation



Encourage participation



# Key Novelties

in Horizon Europe

European Innovation Council

EU Missions

New approach to partnerships

Open science policy

Extended association possibilities

Spreading Excellence



# New approach to European Partnerships

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

## Key Features

- **Strategic orientation**
- **Systemic approach**
- **Simple architecture and toolbox**
- **Common set of criteria for the life-cycle**

### 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 Art 185/187 of TFEU and the EIT legal acts for 2021-2027



# 9 European Partnerships on Health

The Strategic Plan 2021-2024 identifies 49 European Partnerships (9 on health):

- public-public;
- public-private;
- global initiatives.

EC proposal for 2 institutionalised partnerships on health based on Art 185/187 (23 Feb 2021)

Newcomer →



- Institutionalised Partnerships (Art 185/7)
- Co-Funded – calls 2021-22
- Co-Funded – calls expected 2023-24
- Under discussion in the context of HERA

# Partnership on pandemic preparedness Background

- Responds to request for better coordination, as expressed in the context of the **ERAvsCorona Action plan**
- Recommended in the scientific opinion on **Improving pandemic preparedness and management** by the Scientific Advice Mechanism (SAM)
- Partners (Member States and European Commission) should develop and agree on an **aligned multi-annual agenda with common objectives for R&I actions** in pandemic preparedness

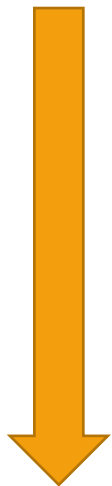
# Health Emergency Preparedness and Response Authority

# HERA

## EU Health Emergency Preparedness & Response Authority (HERA)

- **Mission:** Enable the EU and its MS to rapidly deploy the most advanced medical and other measures in the event of a health emergency
- Assembly of **ecosystems of public and private capabilities**
- This will be done by covering the **whole value chain** and by providing **end-to-end solutions**

*Flexible and  
resourced  
financing &  
procurement  
capacities*



**Knowledge generation:** horizon scanning, market intelligence, foresight

**Development:** late stage research, innovation and development

**Production:** flexible and scalable manufacturing capacities

**Deployment:** EU level stockpiling and distribution

**Use:** training programmes

# Pandemic preparedness partnership

## 3 objectives



Improve EU's preparedness to prevent, predict and respond to epidemics / pandemics



Develop Strategic Research and Innovation Agenda (SRIA) on preparedness



Build a European Research Area (ERA) in pandemic preparedness

Synergy with **HERA** and sustainability

# Partnership development – tentative timeline



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Q / A time!

