

# *Horizon Europe*

# *Health*



# Horizon Europe – 9<sup>th</sup> Framework Programme for R&I (2021-2027)

## Pillar I

### Excellent Science

European Research Council (ERC)

Marie Skłodowska-Curie Actions (MSCA)

Research Infrastructures

## Pillar II

### 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

Non-nuclear direct actions of the Joint Research Centre (JRC)

## Pillar III

### Innovative Europe

European Innovation Council (EIC)

European Innovation Ecosystems (EIE)

European Institute of Innovation and Technology (EIT)

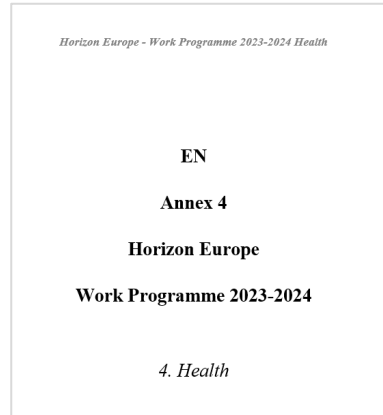
### Part: Widening participation and strengthening the European Research Area

Widening participation and spreading excellence  
Reforming and enhancing the European Research and Innovation system

# The Ecosystem



## Cluster Health



## Partnerships



## Cancer Mission





# *Cluster Health*

*Horizon Europe - Work Programme 2023-2024 Health*

**EN**

**Annex 4**

**Horizon Europe**

**Work Programme 2023-2024**

*4. Health*

# Health-Related Destinations

1

Staying healthy in a rapidly  
changing society

2

Living & working in a health-  
promoting environment

3

Tackling diseases & reducing  
disease burden

4

Ensuring access to innovative,  
sustainable & high-quality  
Healthcare

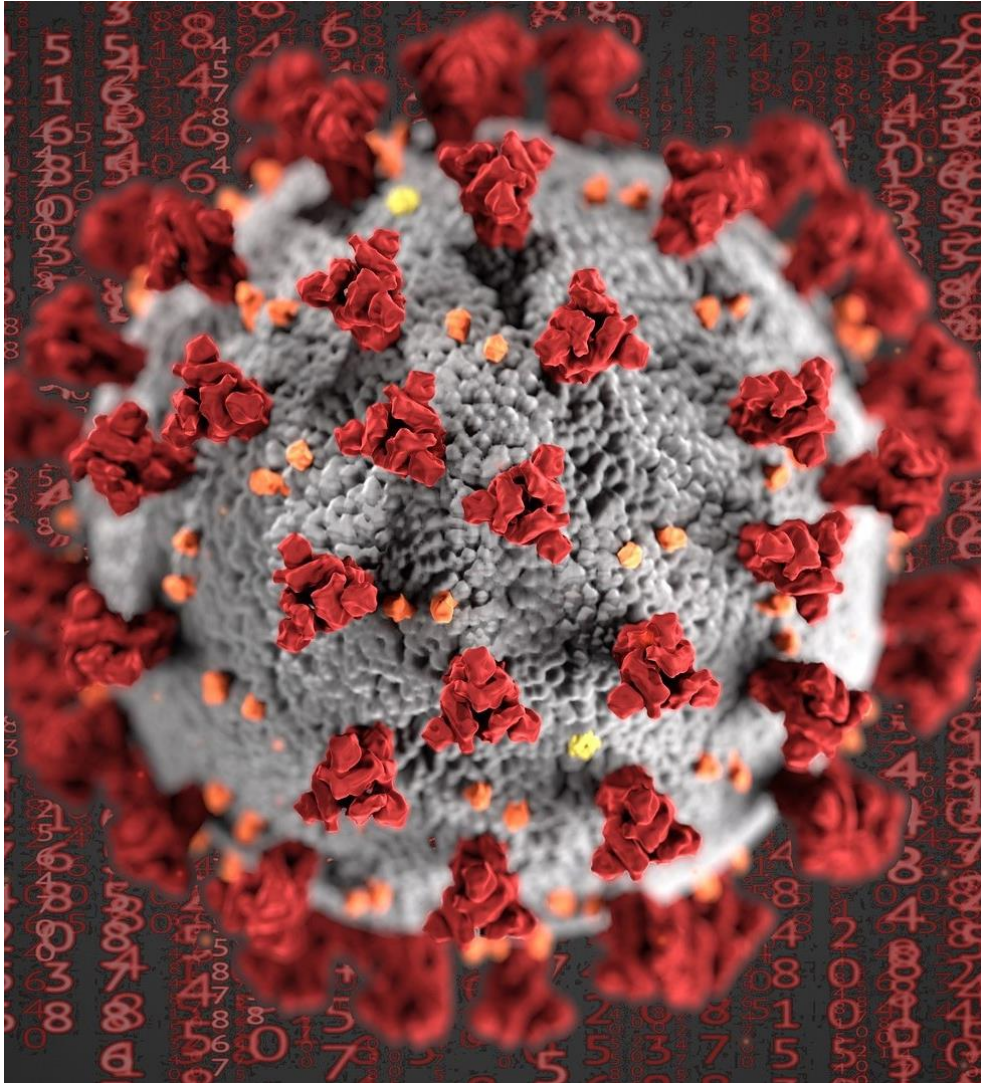
5

Unlocking the full potential of  
new tools, technologies &  
digital solutions for a healthy  
society

6

Maintaining an innovative,  
sustainable & globally  
competitive health industry

### 3. Tackling Diseases & Reducing Disease Burden



- Support to partnership on pandemic preparedness
- Host-pathogen interaction, anti-viral therapeutics
- OH-AMR partnership

# Maintaining the European partnership for pandemic preparedness



HORIZON-HLTH-2024-DISEASE-08-12

## Scope

- Provide an **efficient secretariat** for the partnership
- Provide **administrative and organisational support** to the Members in the partnership
- Provide strong **scientific support** on topics requested by the GloPID-R Chairs, scientific advisors or (working) groups

## Expected Outcome

- Research funders, policymakers and the research community are aligned towards common objectives and have a **common understanding of the long-term SRIA**

Type of Action: CSA

Budget: € 2  
million /project

Deadline:  
11 April 2024

Total funded  
projects: 1



# Host pathogen interaction of infectious diseases with epidemic potential

HORIZON-HLTH-2024-DISEASE-08-20



## Scope

- Characterise host-pathogen interactions to **inhibit viral replication and exit strategies**, and to **develop therapeutic antibodies and vaccines**
- **Target viruses:** Hendra and Nipah virus, Lassa virus, Crimean Congo haemorrhagic fever virus, Rift Valley fever virus, Ebola and Marburg virus, Dengue virus, Yellow Fever virus, Zika virus, West Nile fever virus and Chikungunya virus
- **Identify receptor and ligand (sub)units** that could be targeted by preventive or therapeutic intervention

## Expected Outcome

- Novel approaches for the **prevention and treatment for emerging and re-emerging infections**
- Diverse and robust development pipeline of **vaccine candidates** and candidates that **inhibit cellular uptake of viruses**

Type of Action: RIA

Budget: € 7-8  
million /project

Deadline:  
11 April 2024

Total funded  
projects: 5



# European Partnership: One Health Anti-Microbial Resistance



HORIZON-HLTH-2024-DISEASE-09-01

## Scope

- Support excellent OH AMR research and development of new prevention methods, interventions, treatments and diagnostics through **annual joint transnational research calls** and research network calls

## Expected Outcome

- **EU and national agencies, policymakers and funders** enhance their collaboration and coordination for a strengthened 'One Health (OH) approach to fight antimicrobial resistance (AMR)'

Type of Action: COFUND

Budget: € 100  
million /project

Deadline:  
11 April 2024

Total funded  
projects: 1

## 5. Unlocking the full Potential of new Tools, Technologies & Digital Solutions for a Healthy Society



Bio-printing, regenerative medicine, tissue engineering

# Bio-printing of living cells for regenerative medicine



HORIZON-HLTH-2024-TOOL-11-02

## Scope

- **Multidisciplinary teams** of engineers, biomedical scientists, cell biologists and medical doctors
- Design the best **bio-printing strategy** for **at least one type of tissue**. Cover **all steps** of the bio-printing suite at target site.
- **Scale-up** the chosen bio-printing technology to a **GMP-conform** manufacturing process

## Expected Outcome

- **Larger-scale bio-printed tissues available** for industry and academia
- Healthcare providers dispose of tools enabling them to **treat conditions of unmet medical need**
- **Fully functional synthetic constructs** of complex tissues or organs

Type of Action: RIA

Budget: € 6-8  
million /project

Deadline:  
11 April 2024

Total funded  
projects: 4

## 6. Maintaining an Innovative, Sustainable & Globally Competitive Health Industry



Harmonisation of methodologies for  
assessing digital health technologies

# Developing EU methodological frameworks for clinical/performance evaluation and post-market clinical/performance follow-up of medical devices and in vitro diagnostic medical devices (IVDs) HORIZON-HLTH-2024-IND-06-08

## Scope

- Develop a framework for a **life-cycle approach** to evaluation of high-risk and innovative medical devices and IVDs
- For medical devices, a **pilot** to support development of **common specifications**

## Expected Outcome

- **Regulators** have access to sound scientific resources for clinical/performance evaluation guidance and development of common specifications
- **Health technology developers** understand evidence needed to demonstrate that devices meet MDR clinical requirements throughout their lifetime

Type of Action: RIA

Budget: € 8-10  
million /project

Deadline:  
11 April 2024

Total funded  
projects: 1

# Features Calls 2024

Three large circles are arranged horizontally. The left circle has a teal border and contains the text 'Single stage'. The middle circle has a yellow border and contains the text 'Entities established in the US are eligible to receive EU funding'. The right circle has a maroon border and contains the text 'Deadline 11.04.2024'.

Single stage

Entities established  
in the US are eligible  
to receive EU funding

Deadline 11.04.2024

# *Health Partnerships*





# Nine Health Partnerships

## Co-funded

- Partnership for the Assessment of Risk from Chemicals
- OneHealth/AMR

## Co-funded

- Transforming Health and Care Systems (THCS)
- **ERA4Health**
- Pandemic preparedness
- Personalised Medicine
- Rare Diseases

## Institutionalised

- **Innovative Health Initiative (IHI)**
- EU-Africa Global Health Partnership (EDCTP3)



## Pre-announcement of the NutriBrain Call



- Improve cognitive brain ageing through nutrition and other lifestyle factors
- Pilot test interventions
- Provide a public health approach
- Omics approach, brain imaging, biomarkers, digital health data use
- Mix of academia, clinical sector, companies, operational stakeholder
- At least 3 countries, max 5 partners
- Deadline for pre-proposal: 15.01.2024


# Innovative Health Initiative (IHI)



European Commission



# Areas IHI Addresses



Treatments and  
diagnostics

Products and  
services with big  
data, AI

Integrate new  
products in care  
pathways

# IHI Call 5: Open

– HORIZON-JU-IHI-2023-05; RIA; single stage; deadline: 16 January 2024

1: Accelerating the implementation of New Approach Methodologies and other innovative **non-animal approaches** for the **development, testing and production of health technologies**

2: Development and proof of principle of new **clinical applications of theranostics solutions**

3: Improved prediction, detection, and treatment approaches for **comprehensive stroke management**

4: Maximising the potential of **synthetic data** generation in **healthcare applications**

# IHI Calls 6 & 7: Upcoming

## IHI call 6 (two-stage)

- Support healthcare system resilience through a focus on **persistence in the treatment of chronic diseases**
- Development of **practical guidance** and recommendations for using **real world data**/real world evidence in **healthcare decision-making**

## IHI call 7 (single-stage)

- Improving clinical management of **heart disease** from early detection to treatment
- User-centric technologies and **optimised hospital workflows** for a sustainable healthcare workforce
- **Clinical validation of biomarkers** for diagnosis, monitoring disease progression and treatment response

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## Future opportunities

We publish draft information on future calls ahead of publication to give applicants additional time to find or build a consortium and prepare a strong proposal.



# *Cancer Mission*



# Cancer Mission



Understanding

Prevention &  
detection

Diagnosis &  
treatment

QoL



“By 2030, more than  
3 million lives saved,  
living longer and  
better”

An abstract graphic on the left side of the slide. It features a thick, teal-colored wavy line that starts from the top left, curves downwards and to the right, then loops back and curves downwards and to the right again. To the left of this line is a black and white halftone dot pattern, which is partially obscured by the teal line.

*Other  
opportunities*

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### Scope

- **Functional characteristics** beyond bio-compatibility, properties that can be used to **control the physiological environment (shape-memory, self-healing properties)** and induce a response
- Biomaterials with **antibacterial properties**

### Expected Outcome

- **Easy deliverability** into the body, **increased implantation precision**, controllable release of therapeutic agents, antimicrobial properties and the possibility of **monitoring or stimulating** biological events

Type of Action: IA

Budget: € 6-8  
million /project

Deadlines:  
7 Feb 2024;  
24 Sep 2024

Total funded  
projects: 4

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# National Contact Points for Health

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**euresearch**

Swiss guide to European  
research and innovation

