Funding opportunities in Health

Dr Sofia Xesfingi

Horizon Europe NCP (Health & Cancer Mission)

Project Manager of HNN3.0 and ECHoS in Greece

Chair of EEN SG Health

25 January 2024

Horizon Europe

Horizon Europe: the EU's key funding programme for Research and Innovation

It tackles climate change, helps to achieve the UN's Sustainable Development Goals and boosts the EU's competitiveness and growth.

It facilitates collaboration and strengthens the impact of research and innovation in developing, supporting and implementing EU policies while tackling global challenges.

Engages the EU's talent pool, boosts economic growth, promotes industrial competitiveness and optimises investment impact within a strengthened European Research Area.

With a budget of **95,5 billion euros**.

Horizon Europe Type of Actions

Research and Innovation Actions (RIAs):

Establish new knowledge or explore a new or improved technology, product, process, service or solution.

The EU funding covers up to 100% of the project costs

Innovation Actions (IAs):

Produce plans or designs for new or improved products, processes or services including prototyping, testing, demonstrating, piloting, large-scale product validation and market replication.

The EU funding covers up to 70% of the project costs.

Coordination and Support Actions (CSAs):

Improve cooperation among EU and associated countries to strengthen the European Research Area including, standardisation, dissemination, awareness-raising, communication and networking activities, policy dialogues, mutual learning or studies.

The EU funding covers up to 100% of the project costs.

Programme co-fund actions (COFUND):

Provide multi-annual co-funding for European Partnerships bringing together public and private partners.

The EU funding covers between 30 and 70% of the project costs.

Horizon Europe Cluster 1: HEALTH

DGs and Authorities

Health and Food Safety

Research and Innovation

Health Emergency Preparedness and Response Authority

Communication Networks, Content and Technology

Europe faced serious healthcare challenges, and the COVID-19 pandemic has shown the importance of coordinating health research and innovation among European countries

The main areas of intervention are:

❖ health throughout the life course
❖ environmental and social health determinants
❖ non-communicable and rare diseases
❖ infectious diseases including poverty-related and neglected diseases
❖ tools, technologies and digital solutions for health and care including personalised medicine
❖ health care systems

Budget: 8,5 billion euros

Cluster 1 Health Destinations

◎ Staying healthy in a rapidly changing society

◎ Living and working in a health-promoting environment

◎ Tackling diseases & reducing disease burden

◎ Ensuring access to innovative, sustainable & high-quality healthcare

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

◎ Maintaining an innovative, sustainable & globally competitive health industry.

Cluster 1 Open Calls

DESTINATION 3

HORIZON-HLTH-2024-DISEASE-08-12: Pandemic preparedness and response: Maintaining the European partnership for pandemic preparedness
- Closure: 11 April 2024
- Instrument: CSA
- Budget: 2M€
- Project size: 2M€

HORIZON-HLTH-2024-DISEASE-08-20: Pandemic preparedness and response: Host-pathogen interactions of infectious diseases with epidemic potential
- Closure: 11 April 2024
- Instrument: RIA
- Budget: 50M€
- Project size: 7-8M€

DESTINATION 6

HORIZON-HLTH-2024-IND-06-08: 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)
- Closure: 11 April 2024
- Instrument: RIA
- Total: 10M€
- Project size: 8-10M€

HORIZON-HLTH-2024-IND-06-09: Gaining experience and confidence in New Approach Methodologies (NAM) for regulatory safety and efficacy testing– coordinated training and experience exchange for regulators
- Closure: 11 April 2024
- Instrument: CSA
- Total: 2M€
- Project size: 2M€

DESTINATION 5

HORIZON-HLTH-2024-TOOL-11-02: Bio-printing of living cells for regenerative medicine
- Closure: 11 April 2024
- Instrument: RIA
- Tot: 25M€
- Project size: 6-8M€

Bio-printing of living cells for regenerative medicine

Expected outcomes (contributing to **several** of the following elements)

- Biomedical scientists will access **entire bio-printing units for regenerating human tissue**
- **Availability of larger-scale bio-printed tissues** for biomedical research purposes **to both industry and academia**
- Healthcare professionals acquire information on the safe and effective use of advanced therapies
- **Healthcare providers** dispose of tools enabling them to **treat conditions of unmet medical need**
- **Individual patients will benefit from a personalized approach** to their respective medical condition thanks to the **bio-printed regenerative medicine solution**

Bio-printing of living cells for regenerative medicine

Scope (address **most** of the following elements)

- Design the **best bio-printing strategy for at least one type of tissue** thanks to a better understanding of the interconnections of the different cell types inside the chosen tissue or organ
- Develop or improve existing equipment able to **print bio-constructs with higher resolution** in a shorter time using various biomaterials and different cell types
- **Cover all steps of the bio-printing suite**, including cell collection, cell differentiation and expansion, imaging, modelling, bio-ink formulation, actual bio-printing, nutrient supply, process monitoring and cell-construct delivery at large site
- **Scale up** the chosen bio-printing technology to a GMP-conform manufacturing process
- **Combine different bio-printing technologies** in order to obtain fully functional synthetic constructs of complex tissues or organs

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)

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

- **Patients** gain **faster access** to innovative, safe and well-performing **medical devices**
- **Regulators** have access to sound scientific resources for **clinical/performance evaluation** guidance and development of **common specifications** under MDR
- **Notified bodies** have a harmonized way of **assessing the clinical evidence** in the pre-market and post-market phases. Their network will be enhanced
- **Health technology developers** gain insight on the evidence needed to demonstrate that their devices meet **MDR clinical requirements** throughout their timeline. They will have ore guidance on the **use of real-world data.**

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)

Scope (address **all** of the following elements)

- Develop technical and regulatory **readiness criteria**
- Reflect on how to provide mechanisms to support **technology transfer**
- Discuss how to **standardise NAMs and NAM-based strategies** via international organisations
- Provide technical **training for Contract Research Organisations**
- Promote dialogue on how to **integrate and interpret data** from NAMs and facilitate their **uptake for safety and efficacy testing**
- Identify **obstacles in EU legislation** for the regulatory use of NAMs and propose **options/changes**

EU Missions

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.

Adaptation to climate change, including societal transformation

Cancer

Healthy oceans, coastal & island waters

Climate-neutral & smart cities

Soil health & food

Conquering Cancer: Mission Possible

Cancer Mission started on September 2021, alongside Europe's Beating Cancer Plan (started February 2021)

Targets by 2030

- More than 3 million more lives saved, living longer and better,
- Achieve a thorough understanding of cancer,
- Prevent what is preventable,
- Optimise diagnosis and treatment,
- Support the quality of life of all people exposed to cancer, and
- Ensure equitable access to the above across Europe

NCP related networks

We are a network of National Contact Points (NCPs) in the area of "Health" enhancing transnational cooperation between NCPs for Cluster 1 Health in Horizon Europe to increase the support for those interested in research funding.

Aim: to harmonize and improve the quality and variety of NCP services in order to achieve a stable level of support between all EU Member States and Associated Countries.

ECHoS will set the foundations for the creation of a future European Network of National Cancer Mission Hubs (NCMHs).

Aim: to support the implementation of the Cancer Mission activities in all Member States and Associated Countries through the establishment and development of Cancer Mission Hubs operating at national, regional, and local levels.

Find open calls via HNN3.0 website

Where to look

Find open calls

Status:
🟢 open 🔴 closed 🟡 forthcoming

Call identifier	Program	Deadline / Topic	Status
Call - Partnerships in Health (2024) https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-search?keywords=HORIZON-HLTH-2024-DISEASE-09	Cluster Health	25.09.2024 ▪ HORIZON-HLTH-2024-DISEASE-09-01: European Partnership: One Health AntiMicrobial Resistance	🟡
IHI Call 5 https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-search?keywords=HORIZON-JU-IHI-2023-05	IHI	16.01.2024 ▪ Topic 1: Accelerating the implementation of New Approach Methodologies and other innovative non-animal approaches for the development, testing and production of health technologies	🟢

1. Health NCP Network website
   https://www.healthncp.net/

2. Funding and Tenders Portal
   https://ec.Europa.eu/info/funding-tenders/opportunities/portal/

3. NCPs

4. Newsletters

5. Brokerage events

6. Personal networks

European Partnerships

European Partnership are initiatives in which the EU and private and/or public partners, commit to jointly support the development and implementation of a programme of research and innovation activities, including market, regulatory or policy uptake.

The aim of European Partnerships with EU and associated countries, the private sector, foundations and other stakeholders is to deliver on global challenges and modernise industry.

✔ Institutionalised Partnerships: These are partnerships in the field of research and innovation between the Union, EU member states and/or industry.
✔ Co-Programmed Partnerships: These are partnerships between the Commission and mostly private (and sometimes public) partners.
✔ Co-Funded Partnerships: These are partnerships involving EU countries, with research funders and other public authorities at the core of the consortium.

European partnerships in the structure of HE

PILLAR II – Global challenges & European industrial competitiveness | PILLAR III – Innovative Europe

Cluster 1: Health	Cluster 4: Digital, industry and space	Cluster 5: Climate, energy and mobility	Cluster 6: Food, bioeconomy, natural resources, agriculture and environment	EIT: The European Institute of Innovation and Technology	European innovation ecosystems
Innovative Health Initiative	Key Digital Technologies	Clean Hydrogen	Circular Bio-based Europe	EIT InnoEnergy	Innovative SMEs
Global Health EDCTP3	Smart Networks and Services	Clean Aviation	Biodiversa+	Climate-KIC	
Transformation of Health Care Systems	High Performance Computing	Single European Sky ATM Research 3	Blue Economy	EIT Digital	
Risk Assessment of Chemicals	European Metrology (Art. 185)	Europe's Rail	Water4All	EIT Food	
ERA for Health	AI-Data-Robotics	Connected, Cooperative and Automated Mobility	Animal Health and Welfare	EIT Health	
Rare Diseases	Photonics	Batteries	Accelerating Farming Systems Transitions	EIT Raw materials	
One-Health Antimicrobial Resistance	Made in Europe	Zero-emission Waterborne Transport	Agriculture of data	EIT Manufacturing	
Personalised Medicine	Clean Steel – Low-Carbon Steelmaking	Zero-emission Road Transport	Safe and Sustainable Food Systems	EIT Urban Mobility	
Pandemic Preparedness	Processes4Planet	Built4People		Cultural and Creative Sectors and Industries	
	Globally Competitive Space Systems	Clean Energy Transition			
		Driving Urban Transitions			

CROSS-PILLARS II and III

European Open Science Cloud

■ Institutionalised partnerships (Art 185/7, EIT KICs)
■ Co-programmed
■ Co-funded
☐ Not covered in the BMR 2022 due to a later start date

Source: European Commission

- 49 European partnerships can be found in the Horizon Europe Strategic Plan 2021-2024.

For Cluster 1 (Health):

- 2 Institutionalized

✔ IHI & EDCTP3

- 6 Co-funded

✔ Transformation of Health Care Systems, Risk Assessment of Chemicals, ERA for Health, Rare Diseases, One Health Antimicrobial Resistance, Personalized Medicine

- 1 Co-programmed

✔ Pandemic preparedness

9 European partnerships for Health Resilience

The Partnerships' solutions include:

- tackle antimicrobial resistance
- understand health determinants, disease areas
- strengthen pandemic preparedness
- better protection from chemical risk
- personalised medicine
- new and improved health technologies
- people-centred, integrated health-care
- address Infectious diseases in Sub-Saharan Africa
- better diagnosis and treatment of rare diseases

- 34% of HORIZON EUROPE Partnership funding is expected to contribute to the EU's resilience

- Find out more: Biennial Monitoring Report 2022

- Some examples

✔ Global Health EDCTP3: global cooperation on effective and rapid research to address future epidemics and pandemics

✔ Risk Assessment of Chemicals: Supports EU and national chemical risk assessment and management with new data, networks and skills

✔ Innovative Health Initiative: cross-sectoral collaboration brings together researchers, healthcare professionals, regulators, digital companies and others

Financial Support to Third Parties: Cascade funding

Cascade Funding is a European Commission mechanism to distribute public funding in order to assist beneficiaries, such as start-ups, scale-ups, and/or SMEs in the uptake or development of digital innovation.

Aim: simplifying the administrative procedures, creating a light & SME-friendly application scheme, by allowing that some EU-funded projects may issue, in turn, open calls for further funding

"Culture Helps / Культура допомагає": Individual grants for mental health support (third call)

Culture helps   **Cascade funding**   ⚑ Open for submission   Grant
Creative Europe Programme (CREA)

Topic	CREA-CULT-2023-COOP-UA	**Opening date**	03 October 2023
Deadline model	single-stage	**Deadline date**	27 October 2023 17:00:00 Brussels time

Eurocluster DESIRE: Direct funding for innovation and internationalisation of e-health SMEs

DESIRE   **Cascade funding**   ⚑ Open for submission   Grant
Single Market Programme (SMP)

Topic	SMP-COSME-2021-CLUSTER-01	**Opening date**	13 September 2023
Deadline model	single-stage	**Deadline date**	13 November 2023 17:00:00 Brussels time

DIGIT-PRE Open Call for SMEs aiming to support the development of digital health solutions for prevention, predicti…

DIGIT-PRE   **Cascade funding**   ⚑ Open for submission   Grant
Interregional Innovation Investments Instrument (I3)

Topic	I3-2021-INV1-DIGIT	**Opening date**	27 September 2023
Deadline model	single-stage	**Deadline date**	1 December 2023 17:00:00 Brussels time

PCPs and PPIs

- Pre-Commercial Procurement (PCP) challenges industry from the demand side to develop innovative solutions for public sector needs → PCP enables public procurers to compare alternative potential solution approaches and filter out the best possible solutions that the market can deliver to address its needs.
- Public procurement of innovative solutions (PPI) happens when the public sector uses its purchasing power to act as early adopter of innovative solutions which are not yet available on large scale commercial basis.
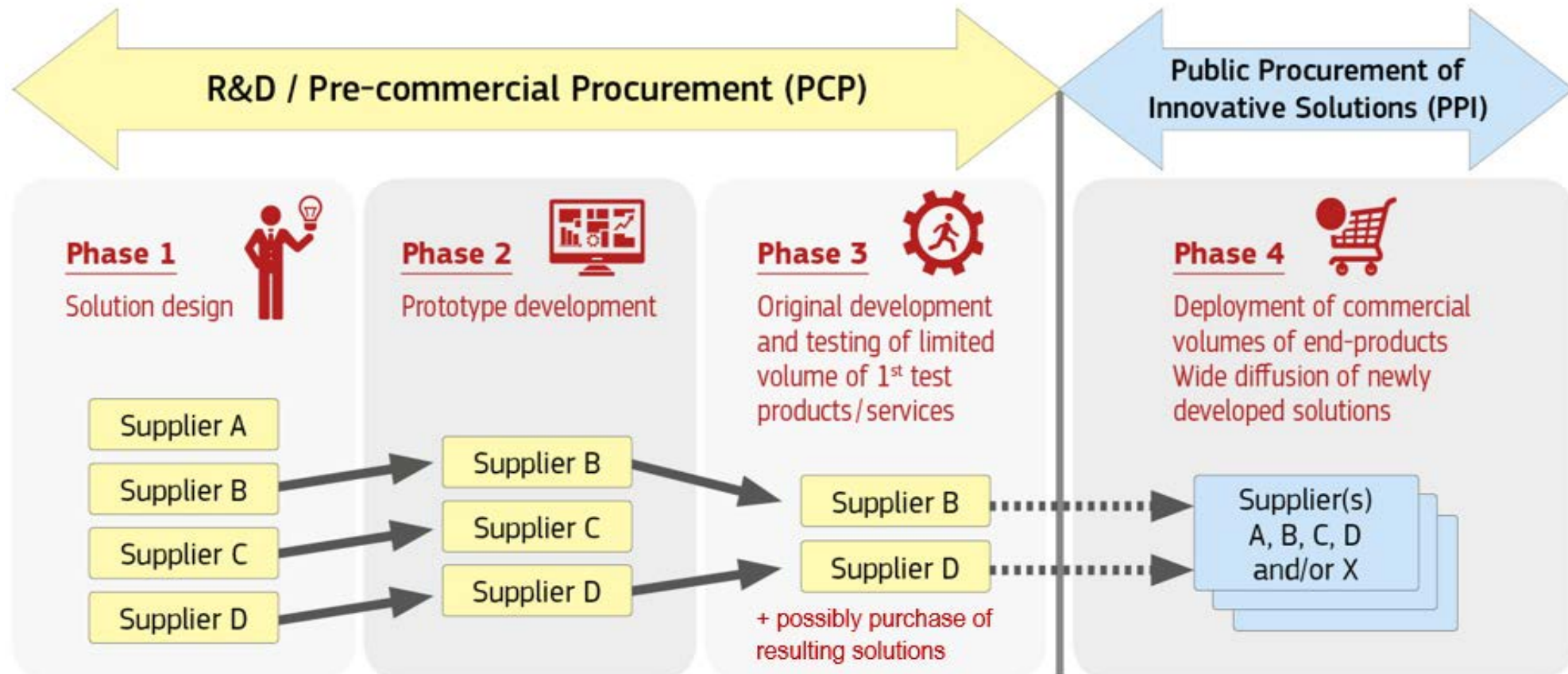
Horizon Europe funding for PCP and PPI

Horizon Europe offers the following funding opportunities for consortia of procurers:
- To prepare and undertake together PCP or PPI procurements
- To cooperate on identifying opportunities and preparing for future PCPs / PPIs

There are 263M EURO of funding opportunities in different fields: health, security, climate change and research infrastructures etc.

In addition, public procurers can also propose themselves to implement PCPs in any call for Research and Innovation (RIA) actions in the WP that does not require the participation of industry in the consortium.

Public authorities that want to implement joint cross-border innovation procurement calls via their national funding programmes can also apply for support for such joint PCP/PPI calls via the HE programme co-fund actions.

Find open calls here: <u>Overview of all the calls in support of PCP and PPI in 2023-2024</u>

National PCPs → EU funded PPIs

Solution design, prototyping, development, testing and installation of first products

Wider diffusion of solutions across different customers and markets

Find more examples [here]

PCP by Norwegian government resulted in deployment (EFTA funding) of the world's first and largest full scale carbon capture, transport and storage facility.
This will reduce by 14% the CO2 emissions across the entire EU.
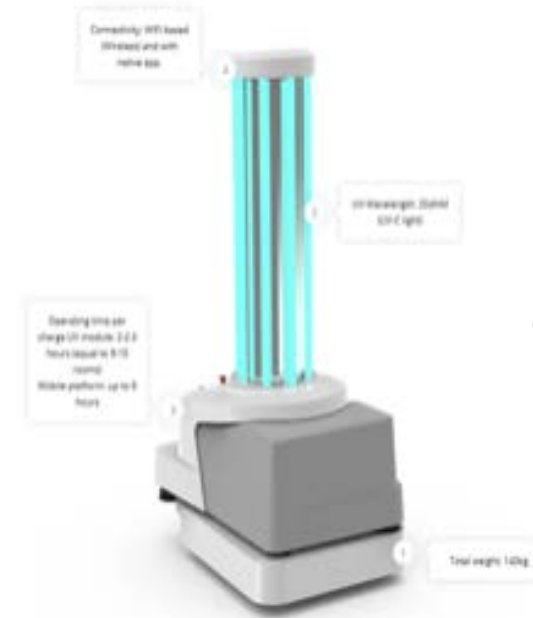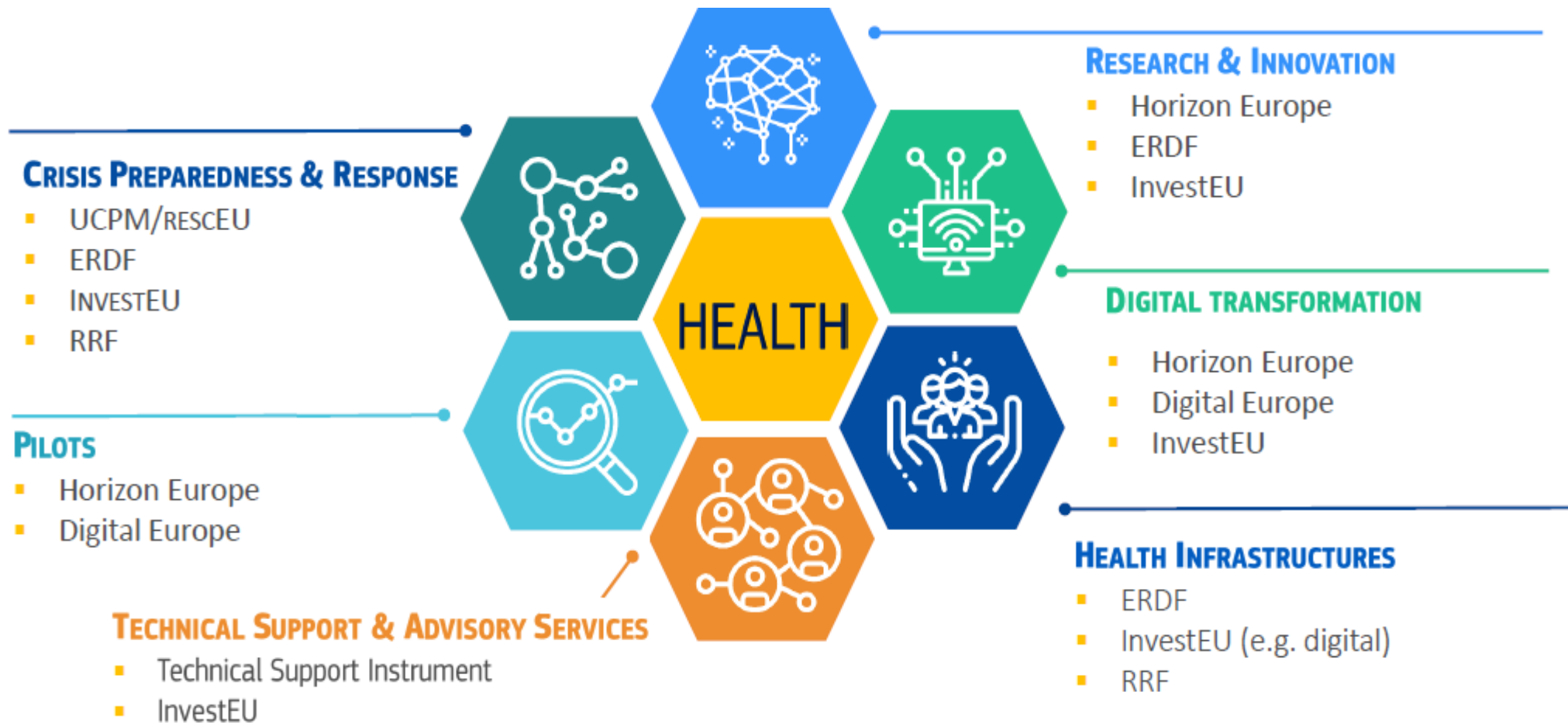

PCP by Danish hospitals
Blue Ocean Robotics
(Danish startup → unicorn)
Its disinfection robots kill 99% of all viruses, bacteria and are sold to fight COVID-19.
EC procured 200 robots for hospitals across Europe, speeding up wider diffusion.

Synergies with other EU programmes

CRISIS PREPAREDNESS & RESPONSE
- UCPM/RESCEU
- ERDF
- INVESTEU
- RRF

PILOTS
- Horizon Europe
- Digital Europe

TECHNICAL SUPPORT & ADVISORY SERVICES
- Technical Support Instrument
- InvestEU

HEALTH

RESEARCH & INNOVATION
- Horizon Europe
- ERDF
- InvestEU

DIGITAL TRANSFORMATION
- Horizon Europe
- Digital Europe
- InvestEU

HEALTH INFRASTRUCTURES
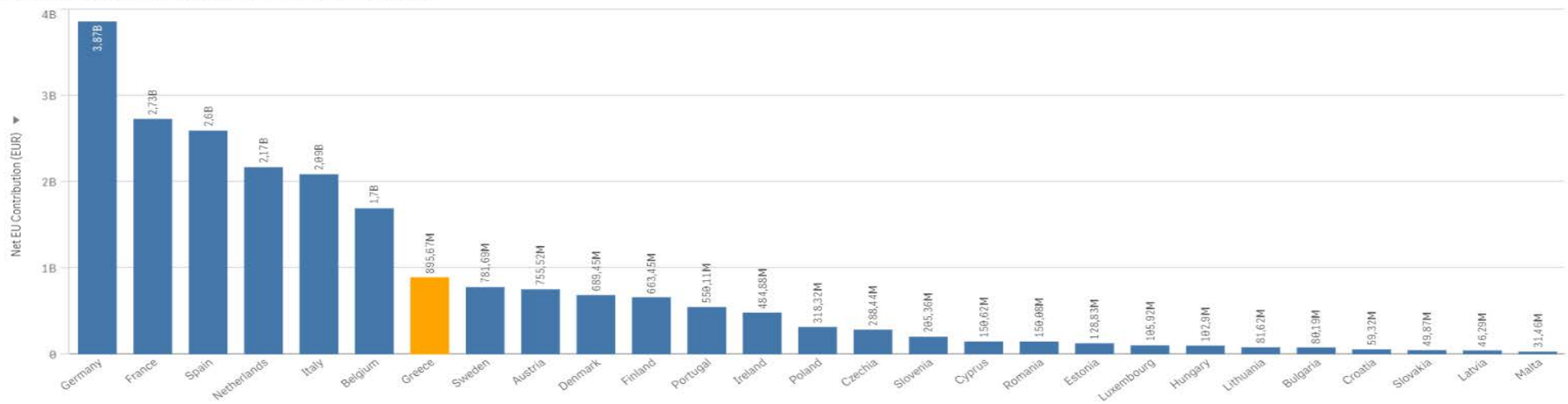- ERDF
- InvestEU (e.g. digital)
- RRF

Coherence and complementarity: Alignment of strategic priorities in support of a common vision
Compatibility: Harmonisation of funding rules, flexible co-funding schemes

Greece General Statistics

Evolution over time
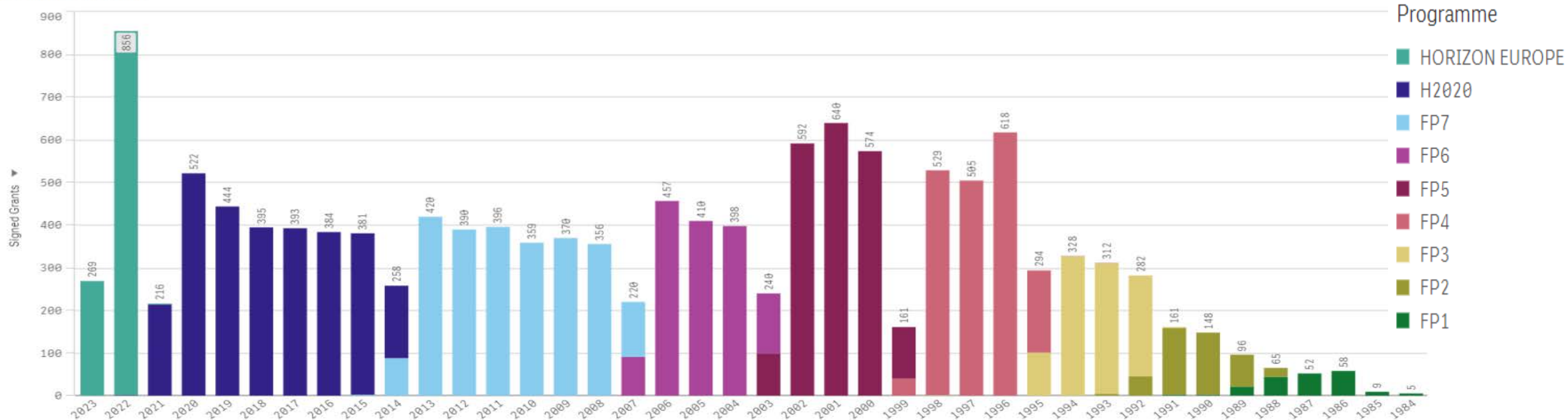
HORIZON EUROPE Contribution (EUR) to Member States

Programme
- HORIZON EUROPE
- H2020
- FP7
- FP6
- FP5
- FP4
- FP3
- FP2
- FP1

Greece's ranking position based on the participation on Horizon Europe

7 out of 27 countries

NATIONAL DOCUMENTATION CENTER (EKT)

Horizon Europe

Enterprise Europe Network

EIT Health

Knowledge Bridges

Metrics Publications

EDIH - Smart ATTICa

Communication Dissemination

Unit of Innovation & Networking

Blended Services: Innovation, Knowledge Transfer & Valorization

NETWORKING SERVICES

Developing bilateral collaborations

Participation in specialized communities and networks

ADVISORY SUPPORT SERVICES

Access to EU RDI funding

Technology transfer

(self-) Diagnostic tools

INFORMATION & COACHING SERVICES

Information and awareness raising

Education services

enterprise europe network

3.000+ **Advisors**

600+ **Organizations**

65+ **countries**

15 Sector & thematic groups

- Aerospace & Defence
- Agri - Food
- Construction
- Cultural & Creative Industries
- Digital
- Electronics
- Energy – Intensive Industries
- Health
- Maritime Industries & Services
- Mobility – Transport - Automotive
- Proximity & Social Economy
- Renewable Energy
- Retail
- Textiles
- Tourism

Chair of the **SG Health** (the biggest SG)

Direct communication with health advisors

Direct networking with international partners

Catalogue of health profiles

Create your profile
Participate in brokerage events
Get direct information
Connect with peers

Enterprise Europe Network Partnering Opportunities

medicine | Search

Type of profile (4) ∧
- ☐ Business Offer
- ☑ Business request
- ☑ Technology offer
- ☑ Technology request
- ☑ Research & Development Request

Type of partner ∧

Select Type of partner...

Type of partnership ∧

Select Type of partnership...

Stage of development ∧
- ☐ Already on the market
- ☐ Available for demonstration
- ☐ Concept stage
- ☐ Lab tested
- ☐ Under development

Technology keywords ∧

Order by | Most recent ⌄   1 - 10 of (60) profile(s) found

(Technology offer) TOHR20221006002

Croatian university department with expertise in analysing environmental contaminants is looking for consortia to join for applying to Horizon Europe calls or other collaborative projects related to Green Deal ⌄

🏴 Croatia 📅 published 11 days ago   🔗

(Research & Development Request) RDRES20221026009

Catalan company is looking for entities of leisure (art, sports, musical, etc.) that work with young people to promote the inclusion and equality of opportunity in children and young people with childhood cancer ⌄

🏴 Spain 📅 published 18 days ago   🔗

(Technology offer) TODE20221020012

Nerve Stimulation with light ⌄

🏴 Germany 📅 published 25 days ago   🔗

(Technology offer) TODE20220921006

Needle assembly for relieving a pneumothorax ⌄

🏴 Germany 📅 published 25 days ago   🔗

A database for partnering opportunities: R&D, Technological, and Business

A) Make your own search and express your interest in already existing profiles

or

B) Create your own profile in order to find your ideal partner

Thank you

ΕΘΝΙΚΟ ΚΕΝΤΡΟ ΤΕΚΜΗΡΙΩΣΗΣ &
ΗΛΕΚΤΡΟΝΙΚΟΥ ΠΕΡΙΕΧΟΜΕΝΟΥ |

www.ekt.gr

Sofia Xesfingi   sxesfingi@ekt.gr