

# Le opportunità H2020 per l'area Salute

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H2020 National Contact Point SC1 e Infrastrutture



# Health Research opportunities around H2020



# Health research in Horizon 2020



Eu European

**Collaborative health research (SC1)**

**Public-private partnership**

**Frontier research**

**Support to innovation**

**Modelling & predictive (neuro)sciences**

**Research Education Innovation**

**Public-public partnerships**

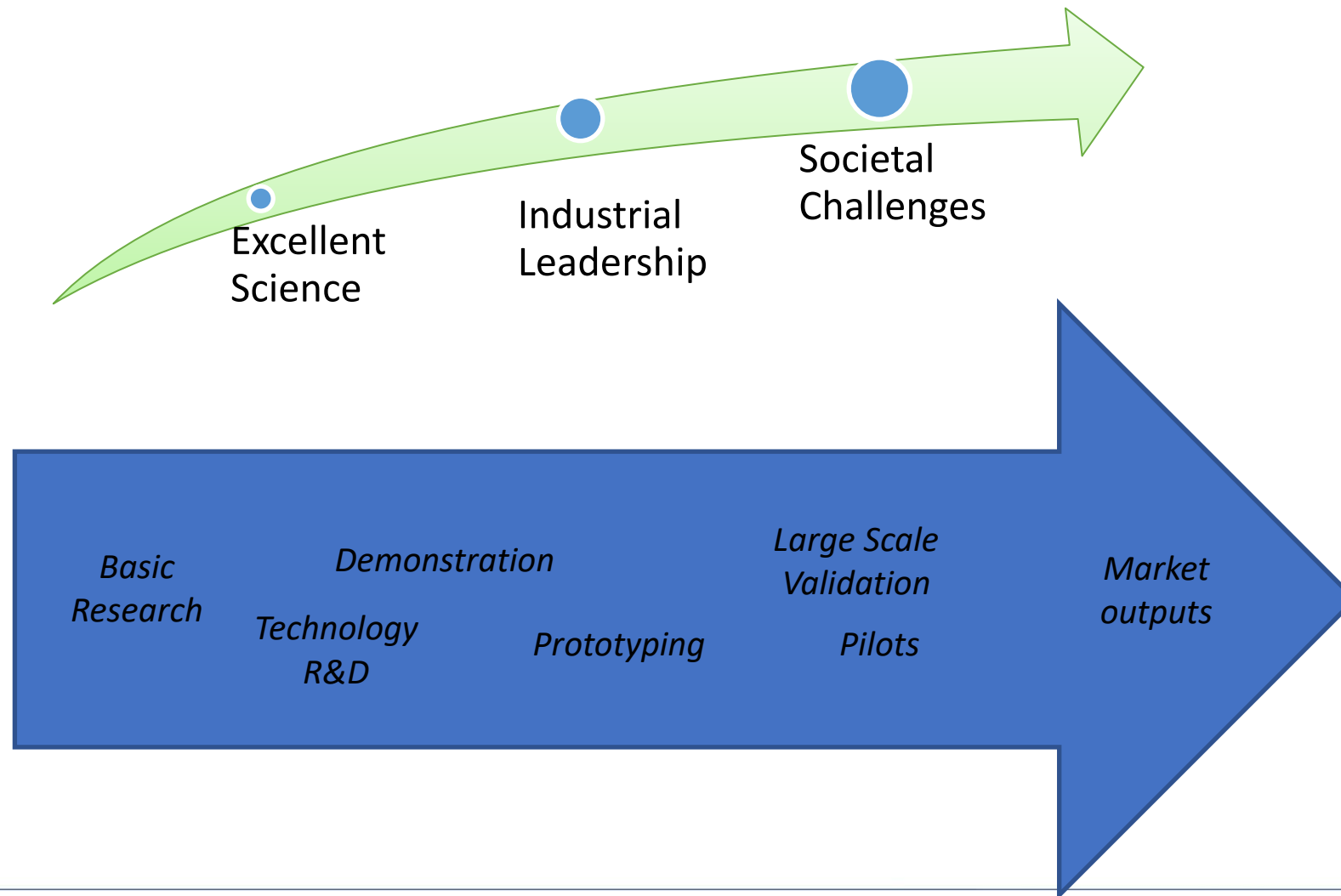
**Health research infrastructures**

SC1 - WP 18-20 - IT 7-19 Gio

**Loans for de-risking R&I**

**Deployment of innovative solutions**

# Coverage of the full innovation chain



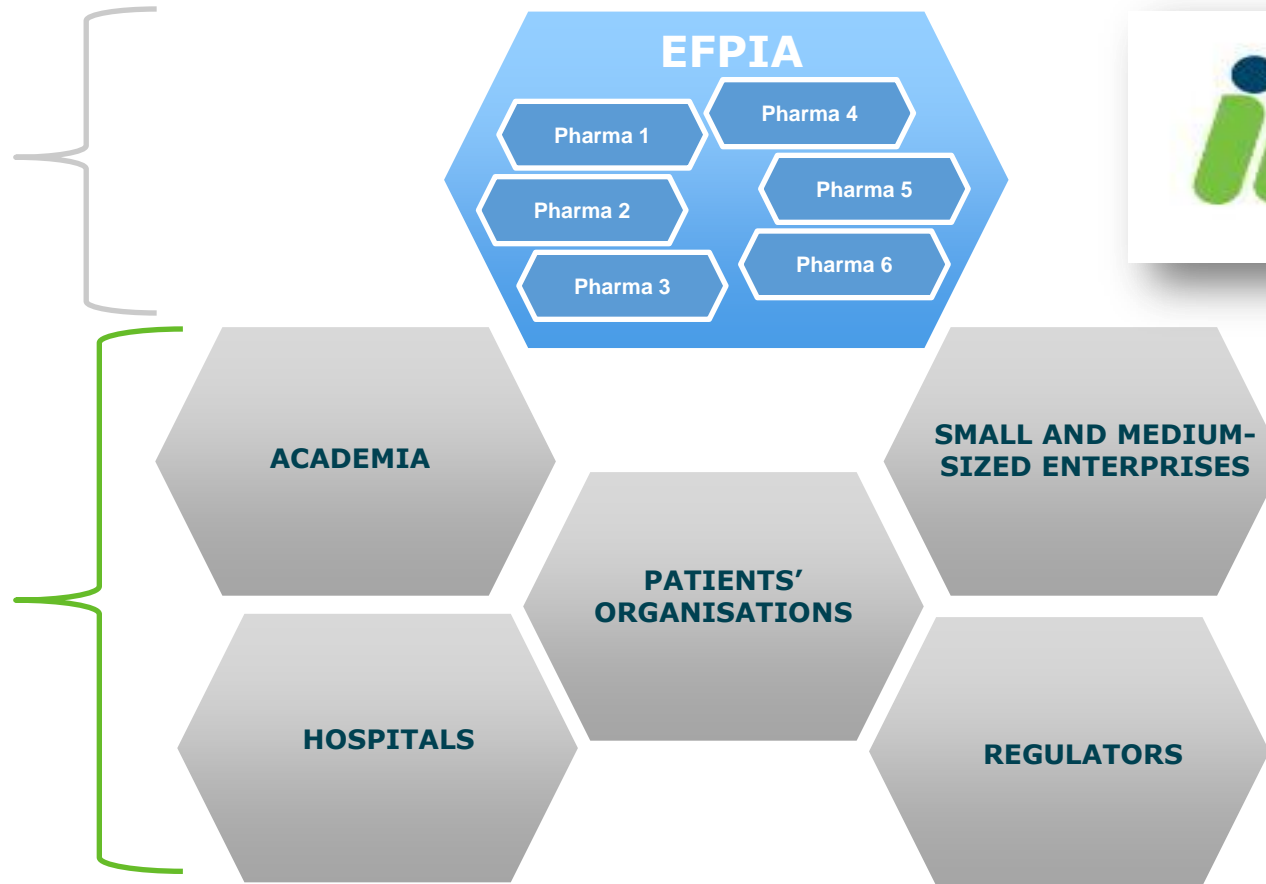
# Scadenze 2020 programmi bottom up

- **FET proactive: 22 aprile 2020**
- **FET OPEN: 13 maggio 2020**
- **[NCP calderaro@apre.it](mailto:NCP_calderaro@apre.it)**
- **Fast track to innovation:**
- **9 February 2020**
- **09 June 2020**
- **27 October 2020**
- **[NCP Carbone@apre.it](mailto:NCP_Carbone@apre.it)**

# A Typical IMI Consortium

Private  
Investment  
*in kind*  
(€ 1 billion)

EU Public  
Funding  
*cash*  
(€ 1 billion)



# Who is eligible for funding?

- Academic institutions
- Small & medium-sized enterprises (SMEs)
- Mid-sized enterprises ( $\leq$  €500m)
- Non-profit organisations e.g. research organisations, patient organisations, NGOs, public bodies, intergovernmental organisations etc.

Established in:

- EU Member States
- Associated Countries

## Other countries:

No funding **unless**

- **participation deemed essential** by IMI for carrying out the action
- **Annual Work Plan / Calls documents**



At least three legal entities

**IMI partner search tool:** <https://cloud.imi.europa.eu/web/eimi-pst>

# Opportunità per il settore health

## Excellent Science



- **European Research Council**
  - Frontier research by the best individual teams
- **Future and Emerging Technologies (New: Pathfinder)**
  - Collaborative research to open new fields of innovation
- **Marie Skłodowska Curie actions**
  - Opportunities for training and career development
- **Research infrastructures** (including e-infrastructure)
  - Ensuring access to world-class facilities

## Industrial Technologies

- **Leadership in enabling and industrial technologies**
  - ICT, nanotechnologies, materials, biotechnology, manufacturing, space
- **Access to risk finance**
  - Leveraging private finance and venture capital for research and innovation
- **Innovation in SMEs (Fast Track to innovation)**
  - Fostering all forms of innovation in all types of SMEs



## Societal Challenges

- **Health, demographic change and wellbeing**
- **Food security, sustainable agriculture, marine and maritime research & the bioeconomy**
- **Secure, clean and efficient energy**
- **Smart, green and integrated transport**
- **Climate action, resource efficiency and raw materials**
- **Inclusive, innovative and reflective societies**
- **Secure societies**



European Institute of Innovation and Technology (EIT)

Spreading Excellence and Widening Participation

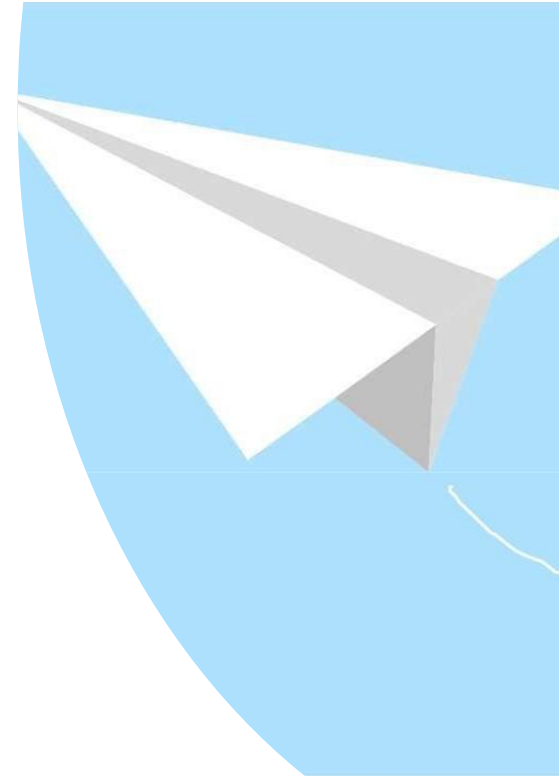
Science with and for society

Joint Research Center (JRC)

European Innovation Council (EIC)



- **Innovativeness**
- **Trans-disciplinarity**
- **Open to any focus of diseases**
- **Collaborations: public/private!**
- **Patient research/citizen centred**
- **Focus on impactS (companies)**
- **Clinical studies ( up to fase 3)**
- **Emphasis on gender medicine when relevant**
- **Ethical aspects**



## Clinical Studies – What do we fund?

Scope, methodology, nature of the intervention, disease and target group

Adults  
Children  
Elderly  
Gender

Phase I  
Phase II  
Phase III  
Observational studies

Regenerative therapies  
Rare diseases  
Non-communicable diseases  
Infectious diseases  
Quality of life interventions  
Palliative care

Off-patent trials  
Repurposing trials  
Paediatric trials  
Drug, surgery, radiotherapy, QoL trials  
Medical devices and companion diagnostics trials  
Comparative effectiveness trials

# SC1 - Health, demographic change and wellbeing

## 7 priorities, 3 Calls for Proposals



1. Personalised medicine



2. Innovative health and care industry



3. Infectious diseases and improving global health



4. Innovative health and care systems – Integration of care



5. Decoding the role of the environment, including climate change, for health and wellbeing



6. Digital transformation in Health and Care



7. Trusted digital solutions and Cybersecurity in Health and Care

Call1. Better Health and care, economic growth and sustainable health systems (DG RTD)

Call 2. Digital transformation in Health and Care (DG CNECT + DG RTD)

Call 3. Trusted digital solutions and Cybersecurity in Health and Care (DG CNECT)

# Data-driven health and care innovation



Prevention and  
early risk detection



New therapies and  
diagnostics



Personalised  
Medicine



New health and  
care models

## Data-driven innovation

*High-performance computing*      *Advanced Data-Analytics*

*Artificial Intelligence*

*Cloud computing*

*mHealth*

*Wearables*

*Internet of Things (IoT)*

*Telehealth*

# SC1 - Health, demographic change and wellbeing

Call1. Better Health and care, economic growth and sustainable health systems (DG RTD)



## 1. Personalised medicine

### AIM

- Delivering personalised health and care to benefit patients and citizens

### FOCUS

- Complex disorders, human microbiome, rare diseases and data sharing for enabling personalised medicine, economic models, reinforcing international and regional collaboration

### POLICY DRIVERS

- Council conclusions on Personalised Medicine
- International Consortium on Personalised Medicine
- European Reference Networks



**ICPerMed**  
INTERNATIONAL CONSORTIUM

# SC1 - Health, demographic change and wellbeing

Call1. Better Health and care, economic growth and sustainable health systems (DG RTD)



1. Personalised medicine

Topics!

7-04-2020

**SC1-BHC-06-2020:** Digital diagnostics – developing tools for supporting clinical decisions by integrating various diagnostic data (RIA)

**SC1-HCO-01-2018-2019-2020:** Actions in support of the International Consortium for Personalised Medicine (CSA)

**SC1-HCO-03-2020:** Bridging the divide in health research and innovation – boosting return on investment (CSA)

**SC1-HCO-14-2020: ERA-NET:** Sustained collaboration of national and regional programmes in cancer research

**SC1-HCO-16-2020: ERA-NET:** Sustained collaboration of national and regional programmes in research on brain- related diseases and disorders of the nervous system

**SC1-HCO-17-2020:** Coordinating and supporting research on the human microbiome in Europe and beyond (CSA)

# SC1 - Health, demographic change and wellbeing

Call1. Better Health and care, economic growth and sustainable health systems (DG RTD)



1. Personalised medicine

Topics!

7-04-2020

**SC1-BHC-06-2020: Digital diagnostics – developing tools for supporting clinical decisions by integrating various diagnostic data (RIA)**

CHALLENGE

On-going progress in the fields of bioinformatics and biostatistics, advanced analytical tools (e.g. machine learning) up to Artificial Intelligence (AI) solutions, should make possible the **development of devices, platforms or novel approaches leading to highly personalised diagnosis, based on the integration of data available from various sources.**

The ultimate result would be **a detailed health status assessment from a multitude of viewpoints, in a systemic way and easy to use for clinical purposes,** leading to better diagnostic accuracy, increased effectiveness and efficiency of treatments. Novel hardware enabling truly innovative, integrative diagnostic platforms can also be considered

# SC1 - Health, demographic change and wellbeing

Call1. Better Health and care, economic growth and sustainable health systems (DG RTD)



1. Personalised medicine

Topics!

7-04-2020

**SC1-BHC-06-2020: Digital diagnostics – developing tools for supporting clinical decisions by integrating various diagnostic data (RIA)**

SCOPE

Develop **tools, platforms or services** (...) [to] **integrate various data sources** such as medical records, in vitro and/or in vivo diagnostics, medical imaging, -omics data, functional tests (lab-on-a-chip) etc., while taking into account the actual needs of health care practitioners, and should be **tested and validated in real-life settings in pilot centres, facilitating Health Technology Assessment.**

The aim is to steer the development of solutions towards concrete patient and public sector needs, having **the citizen and health care providers at the centre.**

Careful attention should be paid to appropriately addressing **ethical and legal concerns and ensuring data safety and privacy.**



# SC1 - Health, demographic change and wellbeing

Call1. Better Health and care, economic growth and sustainable health systems (DG RTD)



1. Personalised medicine

Topics!

7-04-2020

**SC1-BHC-06-2020: Digital diagnostics – developing tools for supporting clinical decisions by integrating various diagnostic data (RIA)**

- Increase **EU' s capacity to innovate** in the area of medical instruments technologies
- Improving the **quality and sustainability of healthcare systems** through quicker and more encompassing diagnosis of medical conditions, (...) with reduction of errors and delays (and costs associated to them).
- **Contribute to the growth of the European diagnostics sector, in particular for SMEs**
- Reinforce EU' s role among world leaders in the production of medical diagnostic devices

EXPECTED  
IMPACT

# SC1 - Health, demographic change and wellbeing

Call1. Better Health and care, economic growth and sustainable health systems (DG RTD)



## 2. Innovative health and care industry

### AIM

- Turn innovative knowledge and technologies into practical applications benefiting citizens, healthcare systems and business

### FOCUS

- Regenerative medicine, advance therapeutics and regulatory science

### POLICY DRIVERS

- Upgrading the single market



# SC1 - Health, demographic change and wellbeing

Call1. Better Health and care, economic growth and sustainable health systems (DG RTD)



2. Innovative health and care industry

Topics!

7-04-2020

**SC1-BHC-08-2020: New interventions for Non-Communicable Diseases (RIA)**  
**Double stage**

**SC1-BHC-11-2020: Advancing the safety assessment of chemicals without the use of animal testing (RIA)**

**SC1-HCO-18-2020: Developing methodological approaches for improved clinical investigation and evaluation of high-risk medical devices (CSA)**

**SC1-HCO-19-2020: Reliable and accessible information on cell and gene-based therapies (CSA)**

# SC1 - Health, demographic change and wellbeing

Call1. Better Health and care, economic growth and sustainable health systems (DG RTD)



2. Innovative health and care industry

Topics!

7-04-2020

**SC1-BHC-11-2020: Advancing the safety assessment of chemicals without the use of animal testing (RIA)**

- Integrative approaches that build on advances in all relevant fields of science and technology, including elements such as *novel in vitro and in silico tools and the understanding of human biology and related toxicity pathways*, with the aim of *proposing and demonstrating scientifically valid means for comprehensive safety assessment of chemical substances* without resorting to animal testing.
- (...) Attention should be given to establishing and pursuing concrete measures to seek acceptance and uptake by end-users
- (...) **Proposals should involve**, amongst others, academic research communities, industry, **SMEs**, relevant stakeholders, and regulatory bodies as appropriate.
- (...) Applicants are encouraged to seek during the life-time of the project **additional support and cooperation from various industry sectors** in order to facilitate and accelerate progress.

SCOPE

# SC1 - Health, demographic change and wellbeing

## Call1. Better Health and care, economic growth and sustainable health systems (DG RTD)



### 3. Infectious diseases and improving global health

#### AIM

- Fighting infectious diseases and the growing threat of antimicrobial resistance. Addressing the needs of the most vulnerable and the global increase in chronic diseases

#### FOCUS

- Emerging infectious diseases, poverty and neglected diseases, stratified host-directed approaches to communicable diseases, maternal and child health, global collaboration on non-communicable diseases (cohorts, brain research, hypertension, diabetes, cancer)

#### POLICY DRIVERS

- European One Health Action Plan against Antimicrobial Resistance
- Global Action Plan on antimicrobial resistance



# SC1 - Health, demographic change and wellbeing

Call1. Better Health and care, economic growth and sustainable health systems (DG RTD)



3. Infectious diseases and improving global health

Topics!

7-04-2020

**SC1-BHC-17-2020:** Global Alliance for Chronic Diseases (GACD) – Prevention and/or early diagnosis of cancer (RIA)

**SC1-BHC-20A-2020:** Pre-commercial procurement (PCP) for integrated care solutions

**SC1-BHC-20B-2020:** Public procurement for innovative solutions (PPI) for integrated care solutions

**SC1-BHC-33-2020:** Addressing low vaccine uptake (RIA)

**SC1-BHC-34-2020:** New approaches for clinical management and prevention of resistant bacterial infections in high prevalence settings (RIA)

**SC1-BHC-35-2020:** Creation of a European wide sustainable network for harmonised large-scale clinical research studies for infectious diseases (RIA)

**SC1-HCO-07-2020:** ERA-NET to support the Joint Programming Initiative on Antimicrobial resistance (JPIAMR)

# SC1 - Health, demographic change and wellbeing

Call1. Better Health and care, economic growth and sustainable health systems (DG RTD)



3. Infectious diseases and improving global health

Topics!

7-04-2020

**SC1-BHC-35-2020: Creation of a European wide sustainable network for harmonised large-scale clinical research studies for infectious diseases (RIA)**

CHALLENGE

There is a need to **establish a pan-European clinical research network that has the capacity and capability to directly enroll patients with infectious diseases**, and to increase efficiency for testing and developing new diagnostic, preventive and/or therapeutic strategies and therapies.

Europe should also **contribute to the G7 aim concerning the need to establish a global clinical studies network on drug resistance** that provides access to a large clinical research infrastructures for the design , coordination and conducting of clinical trials and studies

(...) Respond to the Council Recommendation on strengthened cooperation against vaccine preventable diseases.

# SC1 - Health, demographic change and wellbeing

Call1. Better Health and care, economic growth and sustainable health systems (DG RTD)



3. Infectious diseases and improving global health

Topics!

7-04-2020

**SC1-BHC-35-2020: Creation of a European wide sustainable network for harmonised large-scale clinical research studies for infectious diseases (RIA)**

SCOPE

Set up a **European-wide multidisciplinary network** able to provide a **platform for a rapid response in the conduct of clinical studies in relation to any severe infection**. The initial clinical studies to be performed should be included in the proposal, whereas criteria and processes for including further clinical studies in the project should be clearly described.

(...) The proposed consortium should comprise expertise of stakeholders from academic organizations, **SMEs, larger industry**, patient organizations, ethics committee, public health bodies and regulators.

(...) Build on results of (...) PREPARE and COMBACTE (...) ECRIN.



# SC1 - Health, demographic change and wellbeing

Call 2. Digital transformation in health and care (DG CNECT+DG RTD)



6. Digital transformation in Health and Care

Topics!

22-04-2020

**SC1-DTH-02-2020: Personalised early risk prediction, prevention and intervention (RIA)**

**SC1-DTH-04-2020: International cooperation in smart living environments for ageing people (RIA)**

**SC1-DTH-06-2020: Accelerating the uptake of in-silico trials for testing medicines and medical devices (RIA)**

# SC1 - Health, demographic change and wellbeing

Call 2. Digital transformation in health and care (DG CNECT+DG RTD)



6. Digital transformation in Health and Care

Topics!

22-04-2020

**SC1-DTH-14-2020: Pre-commercial procurement for digital health and care solutions (PCP)**

**SC1-HCC-08-2020: Scaling up innovation for active and healthy ageing (CSA)**

**SC1-HCC-09-2020: Supporting deployment of eHealth in low and lower middle income countries in Africa for better health outcomes (CSA)**

# SC1 - Health, demographic change and wellbeing

## Call 3. Trusted digital solutions and Cybersecurity in Health and Care (DG CNECT)



### 7. Trusted digital solutions and Cybersecurity in Health and Care

#### AIM

- **Multidisciplinary technologies and solutions in health and care with a focus on cybersecurity to assure data privacy, security and protection of health and care infrastructures.**

#### FOCUS

- **Secure and user-driven ICT-based solutions in early risk detection and interventions with big data approaches that enable aggregation of a variety of new and existing data sources (eg. medical records, registries, social platforms and other environmental, physiological and behavioural data, including data from large scale pilots on smart living environments)**

#### POLICY DRIVERS

- **Digitisation Research And Innovation - Transforming European industry and services. European Commission (Focus Area)**
- **Security Research And Innovation - Boosting effectiveness of the Security Union. European Commission (Focus Area)**



# SC1 - Health, demographic change and wellbeing

Call 3. Trusted digital solutions and Cybersecurity in Health and Care (DG CNECT)



7. Trusted digital solutions and Cybersecurity in Health and Care

Topics!

22-04-2020

**DT-TDS-04-2020: AI for Genomics and Personalised Medicine (RIA)**

13-11-2019

**DT-TDS-05-2020: AI for Health Imaging (RIA)**

## Health-related topics 2020 WP's other than SC1

Topic ID	Topic Title	Deadline	Work Programme
NMBP-21-2020	Biological scaffolds for tissue regeneration and repair (RIA)	12/12/2019 (first stage)	NMBP
DT-NMBP-06-2020	Open Innovation Test Beds for nano-pharmaceuticals production (IA)	12/12/2019 (first stage)	NMBP
NMBP-21-2020	Biological scaffolds for tissue regeneration and repair (RIA)	12/12/2019 (first stage)	NMBP
DT-TRANSFORMATIONS-02-2018-2019-2020	Transformative impact of disruptive technologies in public services - Research and Innovation action (RIA)	12/03/2020	Inclusive/innovative/reflexive societies
DT-ICT-12-2020	The smart hospital of the future (IA)	22/04/2020	ICT/ Health
ICT-36-2020	Disruptive photonics technologies (RIA)	22/04/2020	ICT
ICT-55-2020	Interactive Technologies (IA)	13/11/2019	ICT
INFRAEDI-05-2020	Centres of Excellence in exascale computing (RIA)	13/11/2020	Infrastructures
INFRAEOSC-07-2020	Increasing the service offer of the EOSC Portal (RIA)	22/04/2020	Infrastructures
INFRAIA-02-2020	Integrating Activities for Starting Communities (RIA)	17/03/2020	Infrastructures

## Health-related topics 2020 WP's other than SC1

### *Tecnologie innovative*

Topic ID	Topic Title	Deadline	Work Programme
NMBP-21-2020	<b>Biological scaffolds for tissue regeneration and repair (RIA)</b>	<b>12/12/2019</b> (first stage)	<b>NMBP</b>
<i>Specific Challenge</i>	The increasing availability of novel biomaterials with tissue regeneration properties offers the solution for many diseases, including those of a degenerative nature, particularly as integral parts of advanced therapy medicinal products or medical devices (...).		
<i>Scope</i>	Proposals should cover one of the following domains: <ul style="list-style-type: none"> <li>• Targeted musculoskeletal delivery of cells or biologically active agents and innovative biomaterials for <b>articular cartilage/disc, ligament and tendon repair in weight-bearing joints</b>;</li> <li>• Stimulation of healing in <b>chronic and infected wounds and ulcerative processes</b> (with or without biofilms as necessary);</li> <li>• Preventing microbial infection and concurrently promoting tissue regeneration in <b>dental implants and/or dental root surgery</b>;</li> <li>• <b>Implementation of innovative manufacturing technologies (e.g. 3D printing)</b> for affordable fabrication of patient-specific scaffolds planned in respect of the foregoing.</li> </ul>		
<i>Budget</i>	4-6 Million EUR [from TRL 3 to TRL 5]		

## Health-related topics 2020 WP's other than SC1

### *Tecnologie innovative*

Topic ID	Topic Title	Deadline	Work Programme
NMBP-21-2020	Biological scaffolds for tissue regeneration and repair (RIA)	12/12/2019 (first stage)	NMBP
<i>Specific Challenge</i>	Organ-on-Chip' (OoC) is a promising technology for achieving more effective <b>in-vitro</b> research in a broad range of life science sectors, including medicine and pharmacy, cosmetics, agriculture and food, and for chemical safety testing including regulatory testing. More effective drug development, efficacy and safety screening, would reduce the need for animal testing and clinical testing (...).		
<i>Scope</i>	<ul style="list-style-type: none"> <li>• Multidisciplinary research for the development of Organ-on-Chip technologies able to <b>mimic human organs and organ-systems</b>, based on integrated platforms involving technologies</li> <li>• <b>Demonstrator applications involving modelling, diagnosis and therapy of human disease(s) of high and yet unmet medical need.</b></li> <li>• <b>Industrial development/piloting</b> towards improved robustness, reliability, scalability, parallelisation and standardisation of tools and methods, and providing interfaces to standard laboratory equipment;</li> <li>• Taking into account <b>medical regulatory requirements.</b></li> </ul>		
<i>Budget</i>	4-6 Million EUR [from TRL 3 to TRL 5]		

## Health-related topics 2020 WP's other than SC1

### Tecnologie innovative

Topic ID	Topic Title	Deadline	Work Programme
DT-NMBP-06-2020	Open Innovation Test Beds for nano-pharmaceuticals production (IA)	12/12/2019 (first stage)	NMBP
<i>Specific Challenge</i>	<p>(...) A major challenge is to <b>produce the novel nano-pharmaceuticals to GMP (Good Manufacturing Practice) quality</b>, maximising bioavailability and stability and in sufficient quantity for <u>late pre-clinical and clinical testing</u>. To this end the production of the nano-pharmaceuticals needs to be scaled-up from a <u>small laboratory scale in the milligram range to a larger scale</u>. A high level of GMP quality needs to be ensured, for example in terms of particle size and sterility (where appropriate), as required by the regulations for medicines.</p>		
<i>Scope</i>	<ul style="list-style-type: none"> <li>Open Innovation Test Beds (OITB) should <b>upgrade or develop nano-pharmaceutical materials</b> production facilities and make available to industry and interested parties, including SMEs, services for the design and development of production processes, characterisation and quality control of nano-pharmaceuticals;</li> <li>The OITB should provide <b>GMP certified batches of nano-pharmaceuticals suitable for late pre-clinical and clinical testing</b> and in accordance with European regulatory requirements for medicines;</li> <li>The OITB need to provide guidance for late pre-clinical and clinical testing, which itself could be done outside the OITB, <b>benefitting from already existing infrastructures</b>, and/or within the same OITB;</li> <li>Open access at fair conditions and cost as well as outreach and dissemination across Europe, based on a distinct methodology;</li> <li>The users / clients of the OITB will typically be SME's and laboratories with innovative proofs-of-concept and IPR for developing novel nano-pharmaceuticals and demonstration of the scalability of the production process of the technology.</li> </ul>		
<i>Budget</i>	<p>7-15 Million EUR [from TRL 4 to TRL 7] = 70% (except for non-profit legal entities, where a funding rate of 100% applies)</p>		



## Health-related topics 2020 WP's other than SC1

### Digitalizzazione

Topic ID	Topic Title	Deadline	Work Programme
DT-ICT-12-2020	The smart hospital of the future (IA)	22/04/2020	ICT/ Health
<i>Specific Challenge</i>	<p>(...) New digital technologies will play a role in transforming health and care systems. In particular, <b>artificial intelligence and robotics, have the potential to transform health and care facilities across their range of functions from the clinical aspects</b> (screening and prevention, diagnosis, treatment, surgical support) <b>to organisational and logistical aspects</b> (such as the management and distribution of medicines and wider supplies across the facility). Given that health facilities such as <b>hospitals</b> consume the major proportion of resources available to health and care budgets, efficiency gains in these facilities may support sustainability of <b>the system as a whole</b>. (...)</p>		
<i>Scope</i>	<p><b>Devise in-facility pilot demonstrators</b> that deliver innovative AI-based solutions in a health and care setting such as a <b>hospital, primary care facility or care home</b>. Pilots should enable or support clinical, diagnosis and treatment, etc. carried out with clinical outcomes comparable to human delivered procedures and with comparable results. (...)</p>		
<i>Budget</i>	<p>7-10 Million EUR = 70% (except for non-profit legal entities, where a funding rate of 100% applies)</p>		

## Health-related topics 2020 WP's other than SC1

### *Digitalizzazione*

Topic ID	Topic Title	Deadline	Work Programme
<b>ICT-36-2020</b>	<b>Disruptive photonics technologies (RIA)</b>	<b>22/04/2020</b>	<b>ICT</b>
<i>Specific Challenge</i>	The challenge is the development of <b>advanced photonics technologies which have the potential to revolutionise an existing application sector or to create completely new applications and markets.</b>		
<i>Scope</i>	The focus is on the following themes (sub-topics): <b>i. 3D light field and holographic displays:</b> Actions should develop innovative photonics components and systems which enable 3D light field or holographic displays for use in mixed-reality applications such as automotive, <u>healthcare</u> , telecommunication, entertainment and gaming. In addition, the display components actions may also develop sensors and actuators for necessary support functionality such as <b>sensing, connectivity, user interaction, and scene recognition</b> etc. Actions must include <b>validation in application settings.</b>		
<i>Budget</i>	(...) At least one proposal will be selected to cover each of these themes.  3-6 Million EUR		

## Health-related topics 2020 WP's other than SC1

### Digitalizzazione

Topic ID	Topic Title	Deadline	Work Programme
<b>ICT-55-2020</b>	<b>Interactive Technologies (IA)</b>	<b>13/11/2019</b>	<b>ICT</b>
<i>Specific Challenge</i>	<p><b>Interactive Technologies such as Augmented (AR) and Virtual Reality (VR) are set to transform the ways in which people communicate, interact and share information on the Internet and beyond.</b> This will directly impact a larger number of European industries ranging from manufacturing, data life cycle, <u>healthcare</u>, engineering, to education, entertainment, media and culture, enabling new business opportunities. The challenge is to forge a competitive and sustainable ecosystem of European technology providers in Interactive Technologies.</p>		
<i>Scope</i>	<p>The full scope of the EU intervention in this areas includes: 1/ <b>support a pan-European coordination effort to strengthen the collaboration among the constituency (ICT-25-2018)</b>; 2/ <b>improve competitiveness</b> through research into future high-quality multi-sensorial interactive hardware and multi-user interaction systems (ICT-25-2018) and 3/ <b>increase the European innovation capacity</b> through the development of new authoring tools and the access to a broader community which will be the objective of this specific call through Innovation Actions. (...) <b>develop solutions in key sectors such as</b> in manufacturing, automotive, <u>healthcare</u> or cultural and creative industries or in sectors where the use of such technology is not mainstream.</p>		
<i>Budget</i>	<p>1,5-2 Million EUR (12-24 months) = 70% (except for non-profit legal entities, where a funding rate of 100% applies)</p>		

## Health-related topics 2020 WP's other than SC1

### Governance

Topic ID	Topic Title	Deadline	Work Programme
<b>DT-TRANSFORMATIONS-02-2018-2019-2020</b>	<b>Transformative impact of disruptive technologies in public services - Research and Innovation action (RIA)</b>	<b>12/03/2020</b>	<b>Inclusive/innovative /reflective societies</b>
<i>Specific Challenge</i>	The challenge is to <b>assess the potential benefits and risks of using disruptive technologies in public administrations</b> as well as the social impact, including the impact on public servants, of using them for government processes and governance (e.g. for registers, for archiving, for tax collection, for decision-making processes etc.). The political, ethical, socio-economic, legal and cultural implications of disruptive technologies and their acceptance are important not only for public administrations, but also for citizens.		
<i>Scope</i>	The use of disruptive technologies (such as <b>artificial intelligence and big data analytics, block chain, Internet of Things, virtual and augmented reality, simulations or gamification</b> ) in public administrations and in governance including citizens engagement, decision support systems and policy impact assessments is growing (...) As a result, deploying these disruptive technologies in public administration requires experimentations and a thorough assessment of their potential impact, benefits and risks (e.g. excluding some parts of the population due to age / gender / disabilities / social inequality / lack of e-literacy...).		
<i>Expected Impact</i>	(...) It will also contribute to <b>developing new practices, to optimising work processes and to integrating evidence-based decision-making processes</b> in public services and in services such as <b>health</b> , education, culture, social welfare and mobility.		
<i>Budget</i>			

## Health-related topics 2020 WP's other than SC1

### Research Infrastructures

Topic ID	Topic Title	Deadline	Work Programme
INFRAEOSC-07-2020	Increasing the service offer of the EOSC Portal (RIA)	22/04/2020	Infrastructures
<i>Specific Challenge</i>	<p>(...) effectively coordinate at pan-European level the provision through the EOSC Portal of state-of-the-art research enabling services from a wide range of national, regional and institutional public infrastructures in Europe, covering diverse thematic domains, and further non-research resources in order to: 1) <b>scale up the EOSC Portal</b>; and 2) <b>set-up a model for interaction between service providers and the EOSC Portal operators</b> through pan-European e-infrastructure entities, based on transparency and effectiveness of cost compensation.</p>		
<i>Scope &amp; Budget per area</i>	<p>(...) Proposals should clearly identify one and only one of the following areas:</p> <ul style="list-style-type: none"> <li>(a1) <b>Distributed and cloud computing resources</b> enabling researchers and other users to process and analyse data in a distributed computing environment. [8 Million EUR]</li> <li>*<u>(a2) Data services providing cost-effective and interoperable solutions for data management and long-term curation and preservation.</u> [7 Million EUR]</li> <li>(a3) <b>Services supporting scholarly communication and open access</b> [4 Million EUR]</li> <li>(a4) <b>Above the net services</b> are added-value applications and services that enable users to communicate, interact and collaborate effectively in a heterogeneous and distributed federated environment. [2 Million EUR]</li> <li>*<u>(a5) Services and resources from non-research public sector data providers (such as Open Data initiatives/EU Open Data Portal and other initiatives under the European Common Data Space)</u> [1 Million EUR]</li> <li>(a6) <b>Additional research enabling services</b> that are not covered under any of the areas described in areas a1 to a5 and that do not overlap with existing services accessible through the EOSC Portal. Services should be of a generic value to the whole research community, such as text and data mining or Copernicus services. [2 Million EUR]</li> </ul>		

## Health-related topics 2020 WP's other than SC1

### Research Infrastructures

Topic ID	Topic Title	Deadline	Work Programme
<b>INFRAEDI-05-2020</b>	<b>Centres of Excellence in exascale computing (RIA)</b>	<b>13/11/2020</b>	<b>Infrastructures</b>
<i>Specific Challenge</i>	Supporting Centres of Excellence (CoE) that advance and promote the use of upcoming exascale computing capabilities in areas where user communities in collaboration with other High Performance Computer (HPC) stakeholders can develop or scale up existing parallel codes towards exascale performance, resulting into tangible benefits for scientific, industrial or societal challenges. (...) <b>This topic builds and complements the INFRAEDI-02-2018 HPC PPP - Centres of Excellence on HPC applications call</b>		
<i>Scope</i>	Proposals should clearly <b>identify the target area/domain that will be the focus of their work, which must have great potential to achieve exascale performance</b> in Europe (e.g. Materials Science, Engineering, Artificial Intelligence, Cybersecurity, <b>Personalised Medicine</b> , etc.). Proposals must convincingly demonstrate this potential and the need for exascale requirements. Proposals must also develop synergies with existing CoEs and show European added value. Should the proposed work target an area or domain already covered by existing CoEs, proposals must clearly elaborate on how their proposal further expands and develops progress beyond what existing CoEs are implementing		
<i>Budget</i>	Max. 5 Million EUR		

## Health-related topics 2020 WP's other than SC1

### Research Infrastructures

Topic ID	Topic Title	Deadline	Work Programme
INFRAIA-02-2020	Integrating Activities for Starting Communities (RIA)	17/03/2020	Infrastructures
<i>Specific Challenge</i>	<p>Research Infrastructures Communities never supported for their integration under EU FPs.</p> <p>(bottom-up approach) Emphasis on networking, standardization and common access procedure, complementary and coherence with the existing European RI landscape; on the contribution to a catalogue of RI services and on the adoption of the European Charter for Access to RI</p>		
<i>Scope</i>	<p>An Integrating Activity will mobilise a comprehensive <b>consortium of several key research infrastructures in a given field as well as other stakeholders</b> (e.g. public authorities, technological partners, research institutions) (...) Proposals should adopt the guidelines and principles of the <a href="#">European Charter for Access to Research Infrastructures</a></p> <p>All <b>three categories of activities are mandatory</b> as synergistic effects are expected from these different components:</p> <ul style="list-style-type: none"> <li>• <b>Networking activities</b>, to foster a culture of co-operation between research infrastructures, scientific communities, industries and other stakeholders as appropriate, and to help develop a more efficient and attractive European Research Area;</li> <li>• <b>Trans-national access or virtual access activities</b>, to support scientific communities in their access to the identified key research infrastructures;</li> <li>• <b>Joint research activities</b>, to improve, in quality and/or quantity, the integrated services provided at European level by the infrastructures.</li> </ul>		
<i>Budget</i>	Max. 5 Million EUR		

# Search Topics – via the Funding & Tender Portal



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Match whole words only

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Filter by programme (only for grants)

H2020

Filter by programme part

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Filter by focus area

Select a Focus area...

Filter by cross-cutting priority

Select a Priority...

Filter by call

Select a Call...

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- Grant** **Novel marine derived biomolecules and industrial biomaterials BG-03-2014**  
Types of action: Research and Innovation action | Programme: Horizon 2020  
**Closed** Opening date: 11 December 2013 Deadline model: two-stage  
Deadline date: 12 March 2014 17:00:00 Brussels time  
Second stage deadline
- Grant** **Enhancing the industrial exploitation potential of marine-derived enzymes BG-04-2014**  
Types of action: Innovation action | Programme: Horizon 2020  
**Closed** Opening date: 11 December 2013 Deadline model: two-stage  
Deadline date: 12 March 2014 17:00:00 Brussels time  
Second stage deadline
- Grant** **Preparing for the future innovative offshore economy BG-05-2014**  
Types of action: Coordination and support action | Programme: Horizon 2020  
**Closed** Opening date: 11 December 2013 Deadline model: single-stage  
Deadline date: 26 June 2014 17:00:00 Brussels time



**Nanotechnologies, Advanced Materials, Biotechnology, Advanced Manufacturing and Processing (NMBP)**

[http://ec.europa.eu/research/participants/data/ref/h2020/wp/2018-2020/main/h2020-wp1820-leit-nmp\\_en.pdf](http://ec.europa.eu/research/participants/data/ref/h2020/wp/2018-2020/main/h2020-wp1820-leit-nmp_en.pdf)

**Information and Communication Technologies (ICT)**

[http://ec.europa.eu/research/participants/data/ref/h2020/wp/2018-2020/main/h2020-wp1820-leit-ict\\_en.pdf](http://ec.europa.eu/research/participants/data/ref/h2020/wp/2018-2020/main/h2020-wp1820-leit-ict_en.pdf)

**Space**

[http://ec.europa.eu/research/participants/data/ref/h2020/wp/2018-2020/main/h2020-wp1820-leit-space\\_en.pdf](http://ec.europa.eu/research/participants/data/ref/h2020/wp/2018-2020/main/h2020-wp1820-leit-space_en.pdf)

**Health**

[http://ec.europa.eu/research/participants/data/ref/h2020/wp/2018-2020/main/h2020-wp1820-health\\_en.pdf](http://ec.europa.eu/research/participants/data/ref/h2020/wp/2018-2020/main/h2020-wp1820-health_en.pdf)

**Food**

[http://ec.europa.eu/research/participants/data/ref/h2020/wp/2018-2020/main/h2020-wp1820-food\\_en.pdf](http://ec.europa.eu/research/participants/data/ref/h2020/wp/2018-2020/main/h2020-wp1820-food_en.pdf)

**Energy**

[http://ec.europa.eu/research/participants/data/ref/h2020/wp/2018-2020/main/h2020-wp1820-energy\\_en.pdf](http://ec.europa.eu/research/participants/data/ref/h2020/wp/2018-2020/main/h2020-wp1820-energy_en.pdf)

**Transport**

[http://ec.europa.eu/research/participants/data/ref/h2020/wp/2018-2020/main/h2020-wp1820-transport\\_en.pdf](http://ec.europa.eu/research/participants/data/ref/h2020/wp/2018-2020/main/h2020-wp1820-transport_en.pdf)

**Climate/Environment**

[http://ec.europa.eu/research/participants/data/ref/h2020/wp/2018-2020/main/h2020-wp1820-climate\\_en.pdf](http://ec.europa.eu/research/participants/data/ref/h2020/wp/2018-2020/main/h2020-wp1820-climate_en.pdf)

**Inclusive Societies**

[http://ec.europa.eu/research/participants/data/ref/h2020/wp/2018-2020/main/h2020-wp1820-societies\\_en.pdf](http://ec.europa.eu/research/participants/data/ref/h2020/wp/2018-2020/main/h2020-wp1820-societies_en.pdf)

**Security**

[http://ec.europa.eu/research/participants/data/ref/h2020/wp/2018-2020/main/h2020-wp1820-security\\_en.pdf](http://ec.europa.eu/research/participants/data/ref/h2020/wp/2018-2020/main/h2020-wp1820-security_en.pdf)

**Science with and for Society (SWAFS)**

[http://ec.europa.eu/research/participants/data/ref/h2020/wp/2018-2020/main/h2020-wp1820-swfs\\_en.pdf](http://ec.europa.eu/research/participants/data/ref/h2020/wp/2018-2020/main/h2020-wp1820-swfs_en.pdf)

# Informazioni dalla Commissione Ue

- **Funding and Tender:**  
<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/home>
- **Horizon 2020 Helpdesk - Research Enquiry Service:**  
<http://ec.europa.eu/research/index.cfm?pg=enquiries>
- **Health National Contact Points (NCPs) Network:**  
<https://www.healthncp.net/health-ncp-net-hnn-20>
- **Enterprise Europe Network:**  
<http://een.ec.europa.eu/about/branches>

**[www.apre.it](http://www.apre.it)**

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**Martina Desole \_ NMBP**