«FOCUSED GROUP TRAINING ON H2020 Digital Health Call topic»

20-21 February 2020, Ankara

9:00-17:00

Caterina Buonocore,

APRE, NCP for Societal Challenge 1, INFRA, Joint Research Centre .

- Session 1:

- Introduction to the calls and backgound policy documents
- Relevant EU initiatives

Session 2:

- Key actors, successful applicants in H2020 Health.
- Evaluation process

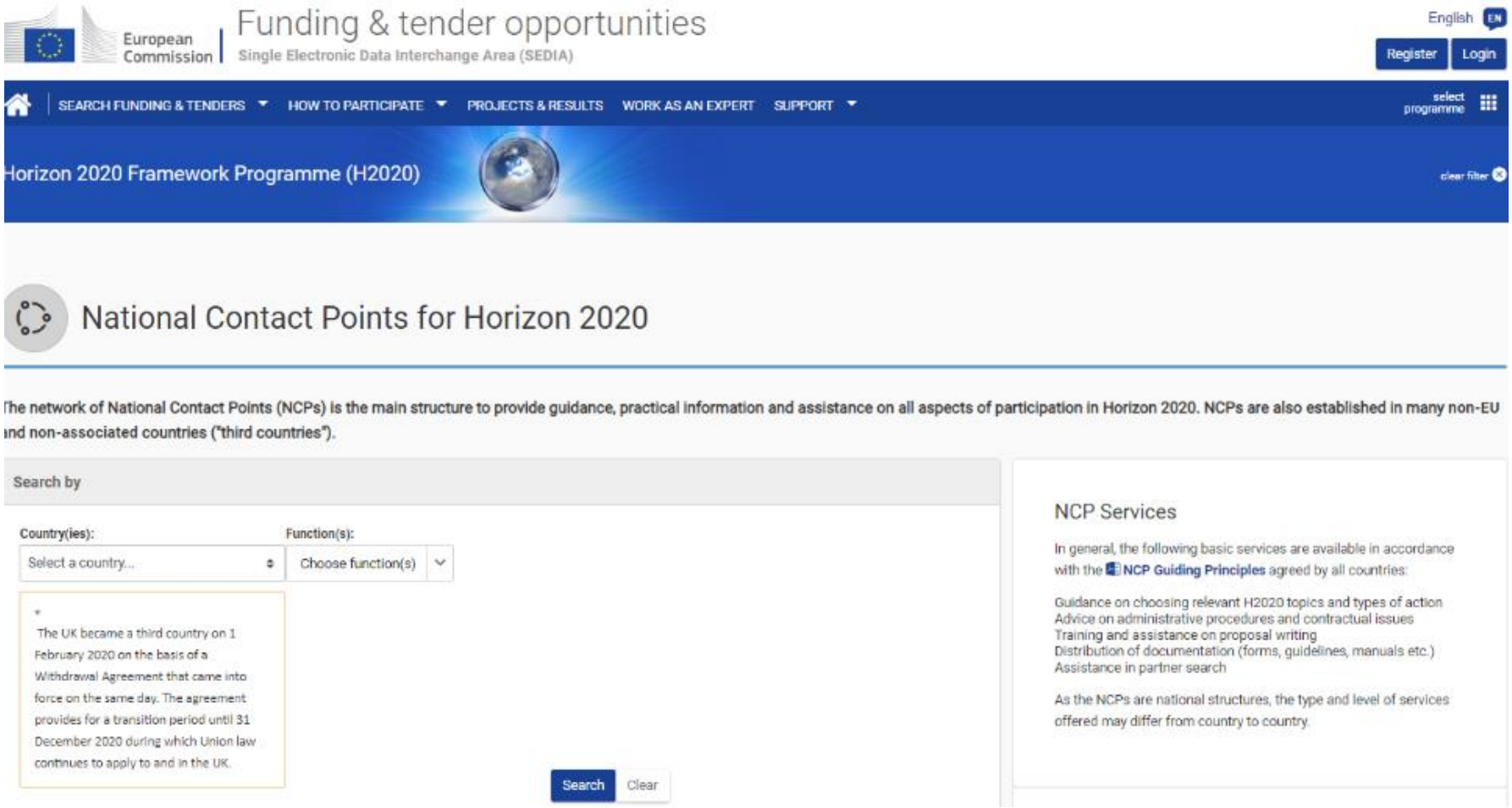
Who is who?

European Commission
Directorate-General for RESEARCH and INNOVATION
PEOPLE
DIRECTORATE E
I. NORSTEDT (act)
E.1 HEALTHY LIVES
HoU - A. LONNROTH
DHoU - C. BERENS
E.2 COMBATTING DISEASES
HoU - B. KERSTIENS
DHoU - K. BERKOUK
E.3 HEALTH INNOVATIONS
HoU - M.AGUAR FERNANDEZ
DHoU - C. LAPLAZA SANTOS
E.4 FAIR SOCIETIES & CULTURAL HERITAGE
HoU - H. HARTUNG
DHoU - M. KAYAMANIDOU
E.5 DEMOCRACY & EUROPEAN VALUES
HoU - H. HARTUNG (act)

Who is who?

European Commission
DG CONNECT
Communications Networks, Content & Technology
Director-General
R. Viola ☎60240
Assistants
B. Juretzki ☎90508
G. Nikowska ☎50365
Deputy Director-General
in charge of Directorates A, C, E & H
K. Rouhana ☎68057
Assistant
J. Wood ☎58594
Deputy Director-General
in charge of Directorates B, D, F, G & I
C. Bury ☎60499
Assistant
P. Lamotte ☎98892
Directorate A
Artificial Intelligence and Digital Industry
L. Sioli ☎51262
Directorate B
Electronic Communications Networks & Services
V. Terävä (acting) ☎92381
Directorate C
Digital Excellence & Science Infrastructure
Th. Skordas ☎68908
Directorate D
Policy Strategy & Outreach
L. Boix Alonso (acting) ☎90009
Directorate E
Future Networks
P. O'Donohue ☎91280
Directorate F
Digital Single Market
G. de Graaf ☎68466
Directorate G
Data
G. Kent ☎35160
Directorate H
Digital Society, Trust & Cybersecurity
K. Rouhana (acting) ☎68057
Directorate I
Media Policy
G. Abbamonte ☎93573
Directorate R
Resources & Support
M. Fjalland ☎50021
Principal Adviser
F. Lupescu ☎68538
Principal Adviser
Vacant
A.1: Robotics & Artificial Intelligence
J. Heikkilä ☎35325
B.1: Electronic Communications Policy
C. Reyners Fontana ☎62223
C.1: eInfrastructure & Science Cloud
A. Veispak ☎33266
D.1: Research Strategy & Programme Coordination
T. Kleiner ☎96502
E.1: Future Connectivity Systems
P. Stuckmann
F.1: Digital Policy Development & Coordination
M. Bailey
G.1: Data Policy & Innovation
Y. Volman
H.1: Cybersecurity Technology & Capacity Building
M. González-Sancho ☎52918
I.1: Audiovisual & Media Services Policy
A. Herold ☎58022
R.1: HR Business Correspondent & Budget
I. Mariën-Dusak ☎92376
Adviser for Legal & Legislative Issues
Z. Rahovec ☎88284
A.2: Technologies & Systems for Digitising Industry
K. Gross ☎50385
B.2: Implementation of the Regulatory Framework
V. Terävä ☎92381
C.2: High Performance Computing & Quantum Technology
G. Kalbe ☎32866
D.2: Policy Implementation & Planning
L. Boix Alonso ☎90009
H.2: Cybersecurity & Digital Privacy Policy
J. Boratynski ☎69452
I.2: Copyright
M. Giorello ☎69563
R.2: Administration & Finance **
G. Van Caenegem ☎61895
Adviser for Artificial Intelligence
E. Badique ☎63466
A.3: Competitive Electronics Industry
C. Maloney ☎69082
B.3: Markets
K. Kloc ☎81806
C.3: Future & Emerging Technologies (FET)
V. Peca ☎57843
D.3: Policy Outreach & International Affairs
D. Ringrose ☎93913
H.3: eHealth, Well-Being & Ageing
M. Marsella ☎32750
R.3: Knowledge Management & Innovative Systems
A. Servida ☎58186
A.4: Photonics
Ph. Vannson ☎56921
B.4: Radio Spectrum Policy
A. Geiss ☎59466
C.4: Flagships
J-F Buggenhout ☎95249
D.4: Communication
E. Jelenkowska-Luca ☎93190
N. Isaris (acting) ☎53032
F. Benini ☎66417
M. Farr-David ☎38085
H.4: eGovernment & Trust
N. Sagstetter (acting) ☎35460
I.4: Media Convergence & Social Media
P. Cesarini ☎51286
R.4: Compliance & Planning
K. Engelbosch ☎54693
Adviser for Societal Challenges
I. Iakovidis ☎52329
A.5: Administration & Finance *
J M Bastos ☎68111
B.5: Investment in High-Capacity Networks
F. Accordino ☎98272
H.5: Smart Mobility & Living
E. Hartog ☎90084
R.5: Programme Implementation
E. Lipiatou ☎66286
Adviser for Capacity Building & Cooperation with Third Countries
Ph. Gérard ☎68644
Mirror-Unit INEA.C.5 CEF Telecommunications
H. Dupuy ☎95258
Mirror-Unit EACEA.B.2 Creative Europe: MEDIA
H. Trettenbrein ☎84955
Mirror-Unit REA.C.4 Expert Management and Support
A. Oram ☎97805
EuroHPC Team
H.3: eHealth, Well-Being & Ageing
M. Marsella
☎32750
Reporting lines are:
- R. Viola for Directorate R;
- K. Rouhana for Directorates A, C, E, H;
- C. Bury for Directorates B, D, F, G, I.
Luxembourg;
To be transferred to Luxembourg.
* Shared Administration & Finance Unit for

Need support?



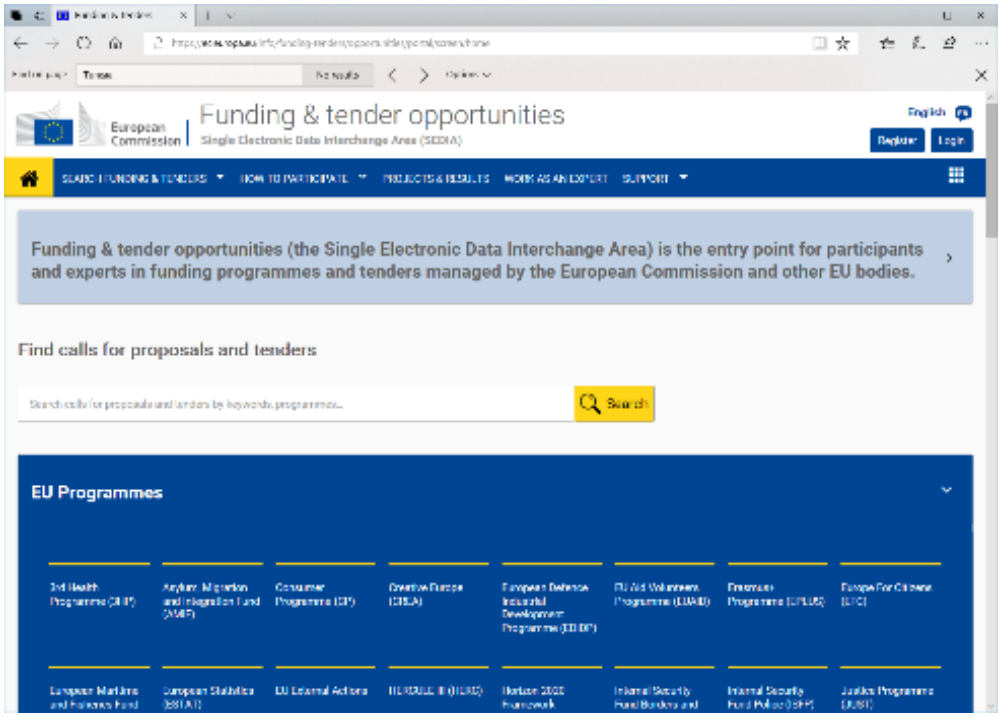
https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/support/ncp

European Network of Health NCP

Funding & Tender Opportunities Portal – one–stop shop

- Call topics
- NCPs
- Expert registration

  Expert names (annual lists)
- Documents
- FAQs
- Rules for participation
- Upload project reports



https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/home

Policy – Digital Health

- **Multidisciplinary technologies** and solutions in health and care with a focus on cybersecurity
- **Secure and user-driven ICT-based solutions** in early risk detection and interventions
- **Aggregation of a variety** of new and existing data sources

FOCUS AREAS

- Digitising and transforming European industry and services
- Boosting the effectiveness of the Security Union

POLICY DRIVERS :

Connected Digital Single Market

Big Data in healthcare

European Data Protection Regulation

H2020 – 3 Pillars

Excellent Science

- **European Research Council**
  - Frontier research by the best individual teams
- **Future and Emerging Technologies**
  - 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**
  - 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)

SC1. HEALTH, DEMOGRAPHIC CHANGE AND WELLBEING

SC1 - Health, demographic change and wellbeing

3 Calls for Proposals

1. Personalised medicine

2. Innovative health and care industry

3. Infectious deseases 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

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

6. Digital transformation in Health and Care

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

7. Trusted digital solutions and Cybersecurity in Health and Care

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

Call 1. Better Health and care, economic growth and sustainable health systems (DG RTD)

		Budget	~Funded projects	Deadline
SC1-BHC-37-2020: Towards the new generation of clinical trials- methodology research	RIA-LS	6M€	1	07.04.2020
SC1-BHC-06-2020: Digital diagnostics – developing tools for supporting clinical decisions by integrating various diagnostic data	RIA	40M€	3-4	07.04.2020
SC1-BHC-11-2020: Advancing the safety assessment of chemicals without the use of animal testing	RIA	60M€	4	07.04.2020
SC1-BHC-17-2020: Global Alliance for Chronic Diseases (GACD) - Prevention and/or early diagnosis of cancer	RIA	20M€	10	07.04.2020
SC1-BHC-20A-2020: Pre-commercial procurement (PCP) for integrated care solutions	PCP	25M€		07.04.2020
SC1-BHC-20B-2020: Public procurement of innovative solutions (PPI) for diagnostics for infectious diseases	PPI			07.04.2020
SC1-BHC-33-2020: Addressing low vaccine uptake	RIA	9M€	3-4	07.04.2020
SC1-BHC-34-2020: New approaches for clinical management and prevention of	RIA	25M€	2	07.04.202
SC1-BHC-35-2020: Creation of a European wide sustainable network for harmonized large-scale clinical research studies for infectious diseases	RIA	30M€	1	07.04.2020

Call 1. Better Health and care, economic growth and sustainable health systems (DG RTD)

		Budget	~Funded projects	Deadline
SC1-BHC-36-2020: Micro- and nano-plastics in our environment: Understanding exposures and impacts on human health	RIA	25M€	5	07.04.2020
SC1-DTH-12-2020: Use of Real-World Data to advance research on the management of complex chronic conditions	RIA	41M€	8	07.04.2020
SC1-HCC-10-2020: Towards a Health research and innovation Cloud: Capitalising on data sharing initiatives in health research	CSA	4M€	1-2	07.04.2020
SC1-HCO-01-2048-2019-2020: Actions in support of the International Consortium for Personalised Medicine - ICPerMed Secretariat	CSA	4 M€	1	07.04.2020
SC1-HCO-03-2020: Bridging the divide in health research and innovation – boosting return on investment	CSA	2M€	1	07.04.2020
SC1-HCO-07-2020: ERA-NET to support the Joint Programming Initiative on Antimicrobial resistance (JPIAMR)	ERA-NET Cofund	5 M€	1	07.04.2020
SC1-HCO-14-2020: ERA-NET: Sustained collaboration of national and regional programmes in cancer research	ERA-NET Cofund	5 M€	1	07.04.2020
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	ERA-NET Cofund	5 M€	1	07.04.2020
SC1-HCO-17-2020: Coordinating and supporting research on the human microbiome in Europe and beyond	CSA	2M€	1	07.04.2020

Call 1. Better Health and care, economic growth and sustainable health systems (DG RTD)

		Budget	~Funded projects	Deadline
SC1-HCO-18-2020: Developing methodological approaches for improved clinical investigation and evaluation of high-risk medical devices	CSA	2 M€	1-2	07.04.2020
SC1-HCO-19-2020: Reliable and accessible information on cell and gene-based therapies	CSA	2 M€	1	07.04.2020
SC1-HCO-20-2020: Coordination of clinical research activities of the European Reference Networks	CSA	2 M€	1	07.04.2020
SC1-BHC-08-2020*: New interventions for Non-Communicable Diseases	RIA	80 M€	16	24.09.2019 07.04.2020
SC1-BHC-24-2020*: Healthcare interventions for the management of the elderly multimorbid patient	RIA	50 M€	10	24.09.2019 07.04.2020
SC1-BHC-29-2020*: Innovative actions for improving urban health and wellbeing - addressing environment, climate and socioeconomic factors	RIA	35 M€	7-8	24.09.2019 07.04.2020
SC1-DTH-13-2020*: Implementation research for scaling up and transfer of innovative solutions involving digital tools for people-centred care	RIA	20M€	5-6	24.09.2019 07.04.2020

Call2. Digital transformation in Health and Care (DG CNECT + DG RTD)

		Budget	~Funded projects	Deadline
SC1-DTH-02-2020: Personalised early risk prediction, prevention and intervention based on Artificial Intelligence and Big Data technologies	RIA	32M€	6-7	22.04.2020
SC1-DTH-04-2020: International cooperation in smart living environments for ageing people	RIA	8M€	2	22.04.2020
SC1-DTH-06-2020: Accelerating the uptake of computer simulations for testing medicines and medical devices	RIA	32M€	4-5	22.04.2020
SC1-DTH-14-2020: Pre-commercial Procurement for Digital Health and Care Solutions	PCP	9M€	2	22.04.2020
SC1-HCC-08-2020: Scaling up innovation for active and healthy ageing	CSA	2M€	1	22.04.2020
SC1-HCC-09-2020: Supporting deployment of eHealth in low and lower middle income countries in Africa for better health outcomes	CSA	2M€	1	22.04.2020

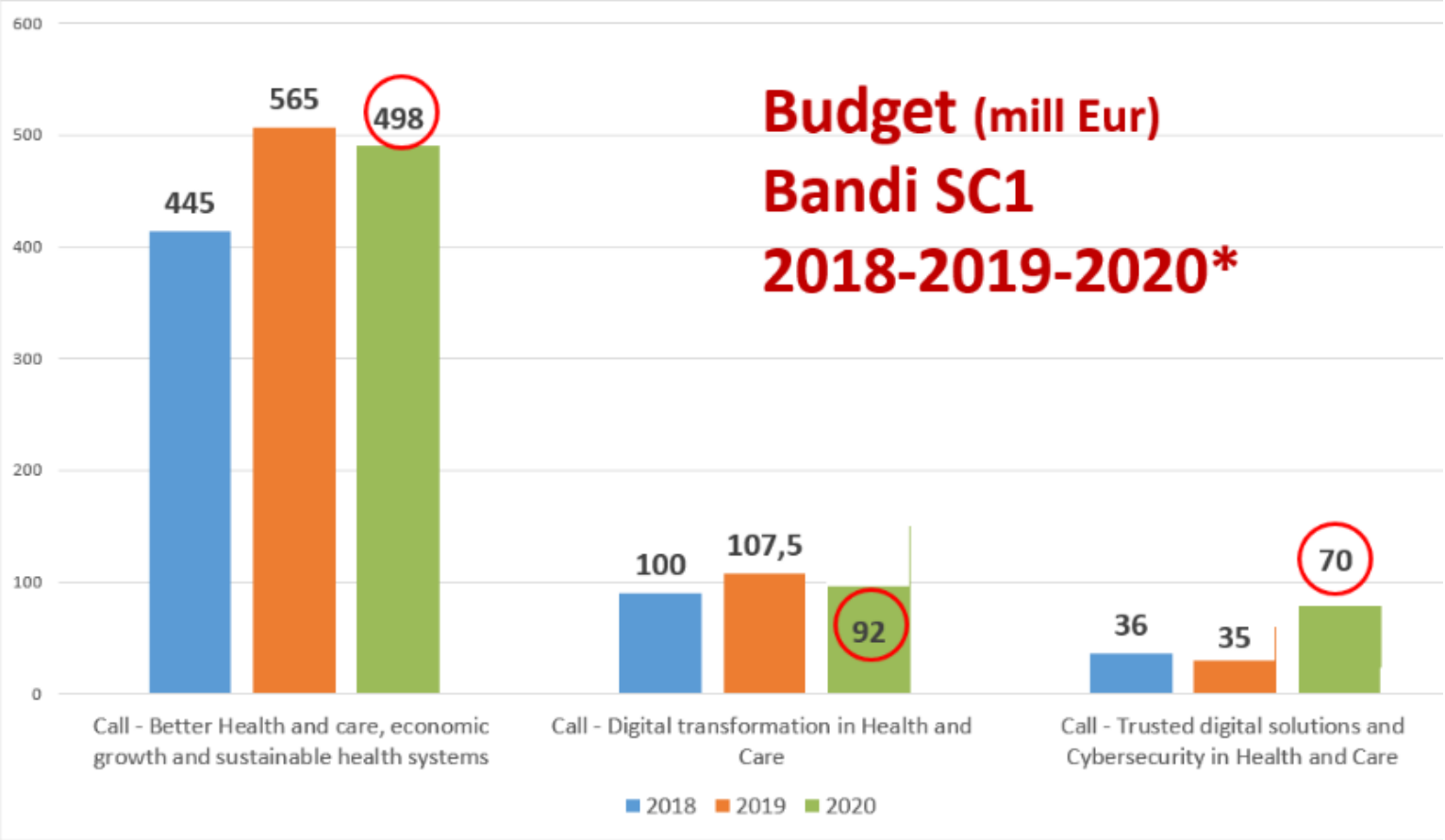
Call 3. Trusted digital solutions and Cybersecurity in Health and Care (DG CNECT)

		Budget	~Funded projects	Deadline
DT-TDS-04-2020: AI for Genomics and Personalised Medicine	RIA	35M€	3-7	22.04.2020

Publication date, deadlines, single / two stages?

- Topics SINGLE STAGE and DOPPIO STAGE* (4 topics)

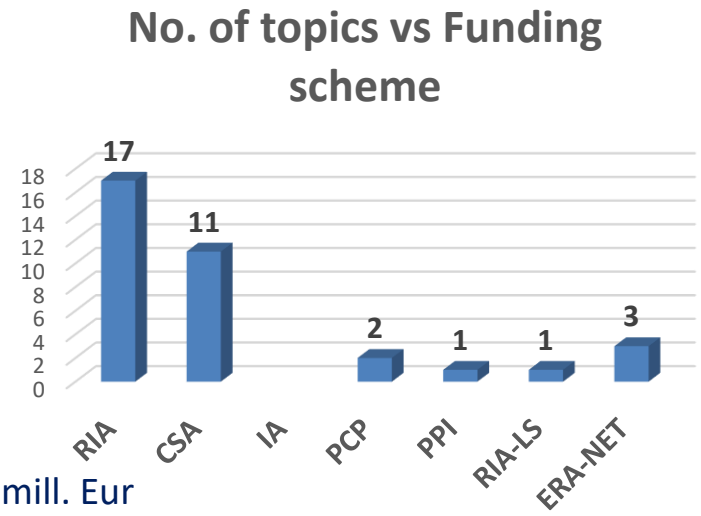
Call	2020	
	Opening	**Deadline**
1 Better Health and care, economic growth and sustainable health systems DG RTD	~~4 Jul 2019~~	~~24 Sept 2019*~~ ~~7 Apr 2020*~~
	4 Jul 2019	7 Apr 2020
2 Digital transformation in Health and Care DG Connect	~~9 Jul 2019~~	~~13 Nov 2019~~
	19 Nov 2019	22 Apr 2020
3 Trusted digital solutions and Cybersecurity in Health and Care DG Connect	~~9 Jul 2019~~	~~13 Nov 2019~~
	19 Nov 2019	22 Apr 2020



The contribution to Focus Areas will be EUR 186.50 million for 'Digitisation' and EUR 71 million for 'Security Union'.

**Other Actions excluded*

- **35 topics ın 2020** –*Other actions*.
- RIA, CSA, PCP, PPI, Era-Net…



- 1,5 3, 6, 10, a 50 mill. Eur
- Internatıonal collaboratıon through Joint Calls (CELAC, Russia, China, Canada…) ın areas lıke
  - *human data on personalized medicine approaches with Canada*
  - *non-communicable diseases CELAC*
  - *HIV, tuberculosis and/or hepatitis C with Russia*
  - *Strategic collaboration on healthcare R&I with China*
  - *Influenza vaccine to protect citizens worldwide – an EU-India collaboration*
  - *E-Health and Personalised Medicine in Africa in 2020*

EU Policy Call SC1 2018 – 2020

• 2030 Agenda for Sustainable Development and its Sustainable Development Goals	*…in particular the SDG3 on 'Good Health and Well-being'. All activities developed in this work programme will support the SDGs*
• COP21 and the Ostrava declaration on environment and health	*…Several actions of this work programme will contribute to the climate action* 2017 topics: air quality, water use, sanitation and hygiene, chemical safety, waste, climate change, sustainable and healthy cities, sustainability of health systems
• Digital Single Market	*The Digital Single Market will support in particular patient-centred integrated care and personalised medicine*
• EU Action Plan on Antimicrobial Resistance and future action Council Conclusions on Personalised Medicine and on Pharmaceuticals.	*See reference in the WP*
• NEW : upcoming Plan on infectious diseases	*New Action plan in Autumn*
• Health Technology Assessment	*See reference in the WP*

#InvestEUresearch

Horizon 2020 Work Programme for Research & Innovation 2018-2020

Open Information Day 'Health, demographic change and wellbeing' challenge

Carmen Laplaza Santos

Deputy Head of Unit eHealth, Wellbeing and Ageing
DG CONNECT, European Commission

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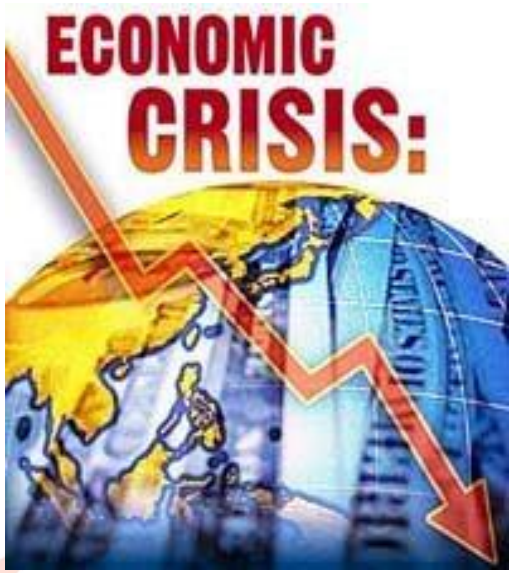
Challenging times

AGEING POPULATION

LACK OF RESOURCES

INCREASED DEMAND FOR HIGH QUALITY OF CARE



Political priorities

Juncker

- Focus on innovation to stimulate investment
- Encourage more SMEs and businesses to join H2020,
- Maximise synergies between H2020 and EU's priorities

Moedas

- Open Science
- Open Innovation
- Openess to the World

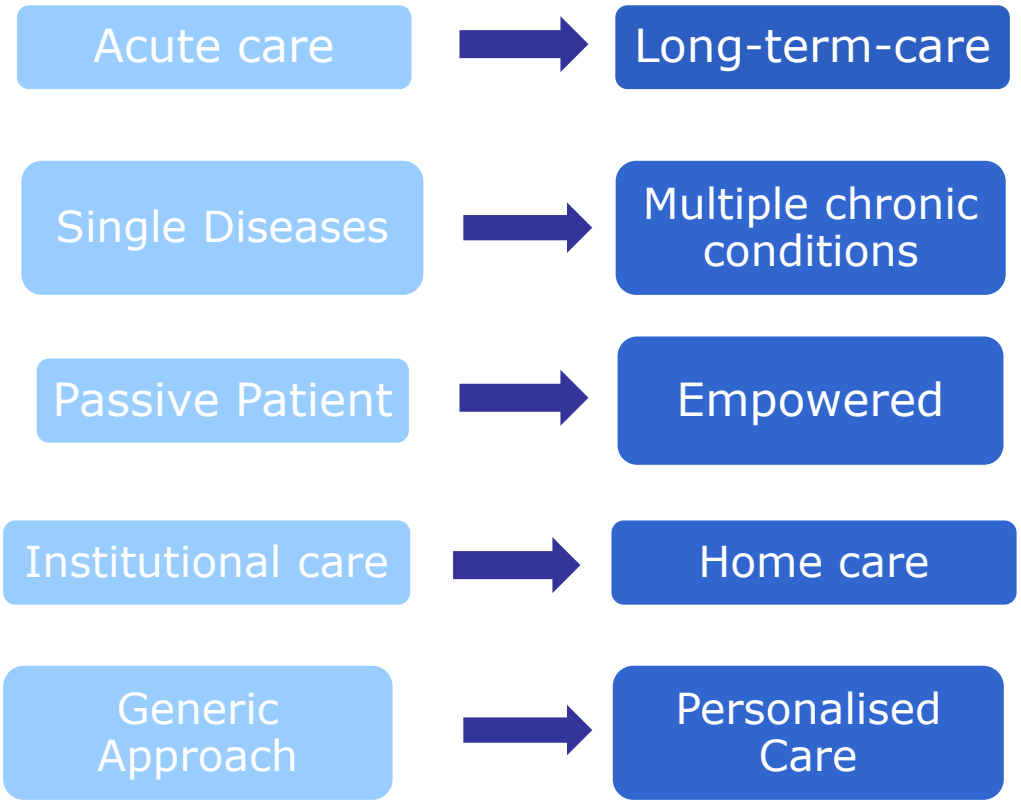
Gabriel

- Digitization of society
- Digital Single Market

Need for changes

Transformation of Health and Care

Multiple Dimensions



Digital Innovation in Health and Care

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

4G/5G

Cloud computing

Internet of Things (IoT)

User in the center

mHealth

Wearables

Telehealth

Healthtech 2030 – the way forward

Sustainable Health and Wellbeing for all European citizens

Bring healthcare back home

- *Homecare is definitely personalised*

The smart hospital

- *Digital, safe and efficient*

The Power of Knowing

- *The new power of digital diagnostic*

Digital Single Market Strategy

- ***Digital health and care transformation was included as part of the Digital Single Market mid-term review*** *(adopted 10 May 2017). The DSM proposal aims to ensure that the digitisation in health and care will benefit EU citizens (providing them with better treatment, prevention and early diagnosis of diseases) and deliver more sustainable health and care systems across the Union.*

Digital Single Market Strategy

Digital Transformation of health and care (3 pillars)

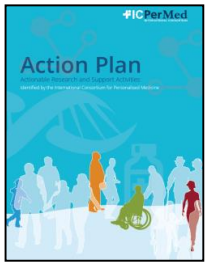
- ***Citizen's secure access to and use of health data***
- ***Advancing research, disease prevention and personalised medicine***
- ***Citizen empowerment and patient-centred care***

The Commission will adopt a Communication in 2017 addressing the need and scope for further measures in the area of digital health and care, in line with legislation on the protection of personal data, patient rights and electronic identification, in particular as regards:

- *citizens´ secure access to electronic health records and the possibility to share it across borders and the use of e-prescriptions.*
- *supporting data infrastructure, to advance research, disease prevention and personalised health and care in key areas including rare, infectious and complex diseases.*
- *facilitating feedback and interaction between patients and healthcare providers, to support prevention and citizen empowerment as well as quality and patient-centred care, focussing on chronic diseases and on a better understanding of the outcomes of healthcare systems.*

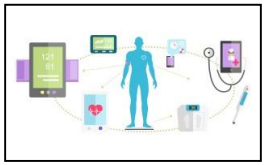
Horizon 2020 – SC1 – WP 2018-2020

Health collaborative research – 7 priorities



Personalised medicine

Innovative health and care industry



Innovative health, and care systems – Integration of care

Decoding the role of the environment for health and well-being

Digital transformation in Health and Care

Trusted Big Data solutions and Cybersecurity for Health and Care

Infectious diseases and improving global health

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CALL– Digital transformation

AIM:

- Better access to healthcare and sustainability of health and care systems
- To empower the participation of citizens and facilitate the transformation of health and care services to more digitised, person-centred and community-based care models
- eHealth and mHealth
- ICT for Active and Healthy Ageing

IMPACT: to maximise the potential of the digital economy in the health and care sectors

POLICY DRIVERS:

Connected Digital Single Market

European Cloud Initiative

European Free Flow of Data initiative

Silver Economy initiative

CALL– Digital transformation

Digital transformation in Health and Care in Work Programme 2018–2020 (I)

- **DTH-03-2018: Adaptive smart working and living environments supporting active and healthy ageing**
- **DTH-07-2018: Exploiting the full potential of in-silico medicine research for personalised diagnostics and therapies in cloud-based environments**
- **DTH-08-2018: Prototyping a European interoperable Electronic Health Record (EHR) exchange**
- DTH-01-2019: Big data and Artificial Intelligence for monitoring health status and quality of life after the cancer treatment
- DTH-05-2019: Large scale implementation of digital innovation for health and care in an ageing society
- DTH-09-2019: Scaling up the univocal Identification of Medicinal Products
- **DTH-10-2019: Digital health and care services**
- DTH-11-2019: Large Scale pilots of personalised & outcome based integrated care

CALL– Digital transformation

Digital transformation in Health and Care in Work Programme 2018–2019 (II)

Coordination and support actions

- HCC-01-2018: Supporting investment in smart living environments for ageing well through certification
- HCC-03-2018: Support to further development of international cooperation in digital transformation of health and care
- HCC-04-2018: Digital health and care services – support for strategy and (early) adoption
- HCC-05-2018: Support to a Digital Health and Care Innovation initiative in the context of Digital Single Market strategy
- HCC-02-2019: Support for the large scale uptake of open service platforms in the Active and Healthy Ageing domain

CALL– Digital transformation

SC1-DTH-03-2018: Adaptive smart working and living environments supporting AHA

Challenge:

- Demographic change and ageing create new challenges for age-friendly living and working environments
- Digital solutions can support older individuals in being and staying actively involved in professional life for longer by designing fit for purpose working environments and by enabling flexible management of job

CALL– Digital transformation

SC1-DTH-03-2018: Adaptive smart working and living environments supporting AHA

Scope:

- Develop and validate digitally enabled adaptive services and solutions leading to smart working and living environments for older adults
- Support older adults to remain actively involved in professional life, helping them to sustain and renew their work and personal life related skills and support independent active and healthy lifestyles while taking into account reduced capabilities due to age-related health risks and conditions
- Unobtrusive and addressing the needs of employees in specific and various sectors and workplaces
- Build on active user engagement and aimed at realistic and verifiable benefits for flexible and sustainable job longevity measures
- Validation should take place in real settings (at workplaces and at home as required)
- Inclusion of the necessary stakeholders to validate all relevant issues
- Attention theft and impeding physical activity by ICT should be avoided

SC1-DTH-03-2018: Adaptive smart working and living environments supporting AHA

Impact:

Proposals should present methodologies and metrics as appropriate for measuring progress with significance towards the expected impact in:

- Independent living, and quality of life of older persons compared to current state of the art, enabling older persons to stay actively involved in work life for longer or return to work after severe disease
- Enhanced health and safety working conditions and quality of life of older persons at work compared to the current situation, enabling older persons to be able to contribute at an appropriate level for a longer period of time
- Evidence of user-centred design and innovation, new intuitive ways of human-computer interaction, and user acceptance;
- Potential cost-effectiveness due to enhanced self-care, life-style, age-friendly and skills conducive work environments and socio-economic benefits
- Competitive advantage for European industry through flexible and sustainable work arrangements for an ageing workforce
- Leadership in ICT

- These objectives implement the EU's commitment at international level and at EU level in particular:
- the 2030 Agenda for Sustainable Development and its Sustainable Development Goals,
- the COP21 and the goals of the Ostrava declaration on environment and health,
- the Digital Single Market (and its relevance for the digital transformation of health and care),
- the new European One Health Action Plan against Antimicrobial Resistance, the cross-border healthcare directive (and its support to the European Reference Networks),
- the Commission Communication on upgrading the single market (and its proposed health technology assessments initiative), and
- the Council Conclusions on Personalised Medicine and on Pharmaceuticals

CALL– Digital transformation

SC1-DTH-03-2018: Adaptive smart working and living environments supporting AHA

Deadline and budgets:

- Submission Deadline: 24 April 2018
- Research and Innovation Action
- Budget: 25M € (expected contribution 4-6M € per proposals)

Strategic Initiatives around HEALTH

Innovative Medicines Initiative 2

www.imi.europa.eu

European Innovation Partnership on Active and Healthy Ageing

https://webgate.ec.europa.eu/eipaha

Active and Assisted Living 2

www.aal-europe.eu

European & Developing Countries Clinical Trials Partnership (EDCTP2)

www.edctp.org

Some best practices in Digital Health

IC-Health
Improving digital health literacy in Europe

Home | The Project | Co-Creation | MOOCs | Results | News | Our Platform | Contact & Get Involved

IC-Health - Improving the digital health literacy of European citizens

IC-Health is a project to develop a series of Massive Open Online Courses (MOOCS) to help improve the digital health literacy of European citizens. MOOCS will be developed in eight languages (English, French, Italian, Danish, German, Swedish, Dutch and Spanish). Countries involved in the pilot are Spain, Italy, Belgium, United Kingdom, Netherlands, Sweden, Germany and Denmark.

IC-Health Final Conference

IC-Health
Improving digital health literacy in Europe

Advancing Proactive Digital Integrated Care

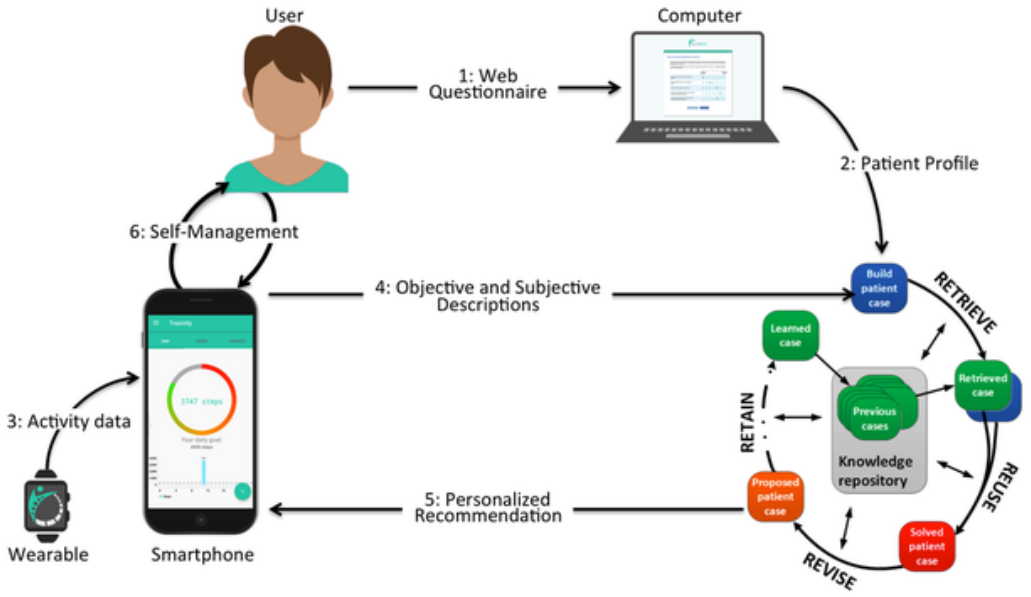
ProACT

ProACT (Integrated Technology Systems for ProACTive Patient Centred Care) is an EU-funded Horizon 2020 project in PHC-25-2015. ProACT targets Europe's 50 million multimorbid patients to proactively self-manage and offset the EU's annual €700 billion cost of chronic disease management. ProACT aims to develop and evaluate an ecosystem to integrate a wide variety of new and existing technologies to improve and advance home-based integrated care for older adults with multimorbidity, including associated co-morbidities.

selfBACK

HOME | ABOUT THE PROJECT | CONSORTIUM | PUBLICATIONS | CONTACT

A decision support system to facilitate, improve and reinforce self-management of non-specific low back pain



Coach Assistant via Projected and Tangible Interface

Fact Sheet | Reporting | Results

Objective

Older adults typically prefer living at their homes as long as possible. However, they often need to be institutionalized due to the age related problems. Homecare can benefit today from a range of existing technologies including smartphones, sensors, etc., however, their effectiveness is limited by the sense of fear and uncomfortableness that many older adults feel. Most current technologies, in fact, are often not designed for older adults, least of all for users with memory impairments. The derivative limitations become a major barrier, severely limiting use of technological assistance in a home environment. CAPTAIN proposes a “transparent” technology designed to turn the home of the older adult into a ubiquitous assistant specifically designed to compensate for their physical and memory impairments during their daily living. To do so, it leverages on a few state of the art technologies, as follows: “Projected augmented reality” to project, through use of micro-projectors, contextualised (directly on walls, floor, tables, etc.) information and instructions on top of the real environment. Real-time 3D sensing technologies to comprehend the “indoor space” (nature and position of objects and actions of the persons) and to allow transforming it into a ubiquitous tangible interface. 3D sensing, together with speech analysis, will allow device-free comprehension of the environment and of the behaviour of the adults (including its changes). Non-invasive physiological and emotional data analysis from facial micro-expressions and human body pose thanks to scalable, robust, and accurate deep learning and artificial intelligence. The coach will leverage on a motivational engine to promote correct nutrition, physical activity, cognitive and physical training, risk avoidance, and social participation. To achieve this CAPTAIN will foster a truly user-centered co-design philosophy -based on constant involvement of older adult in the design, development, and testing stages.

Field of Science

Project information

CAPTAIN

Grant agreement ID: 769830

Project website

Status
Ongoing project

Start date
1 December 2017

End date
30 November 2020

Funded under:
H2020-EU.3.1.4.

Overall budget:
€ 3 990 200

EU contribution
€ 3 990 200

Coordinated by:
ARISTOTELIO PANEPISTIMIO THESSALONIKIS
Greece

The Horizon Dashboard is an intuitive and interactive reporting platform, composed of a set of sheets that allows series of views to discover and filter the Horizon 2020 data.

The aim of the Horizon Dashboard is to facilitate data sharing, providing public access to real-time programme data in an easy, flexible and user-friendly manner.

The Horizon Dashboard offers:

- An accessible, user friendly, open to the public reference for the H2020 implementation data
- Regularly updated data on H2020 proposals, projects and participants
- Fit-for-purpose filter options including thematic, geographical and regional views
- Powerful analytical functions
- Rich and instant data visualisation with multiple attractive maps and graphs which can be extracted for re-use
- Tailor-made statistics according to your needs

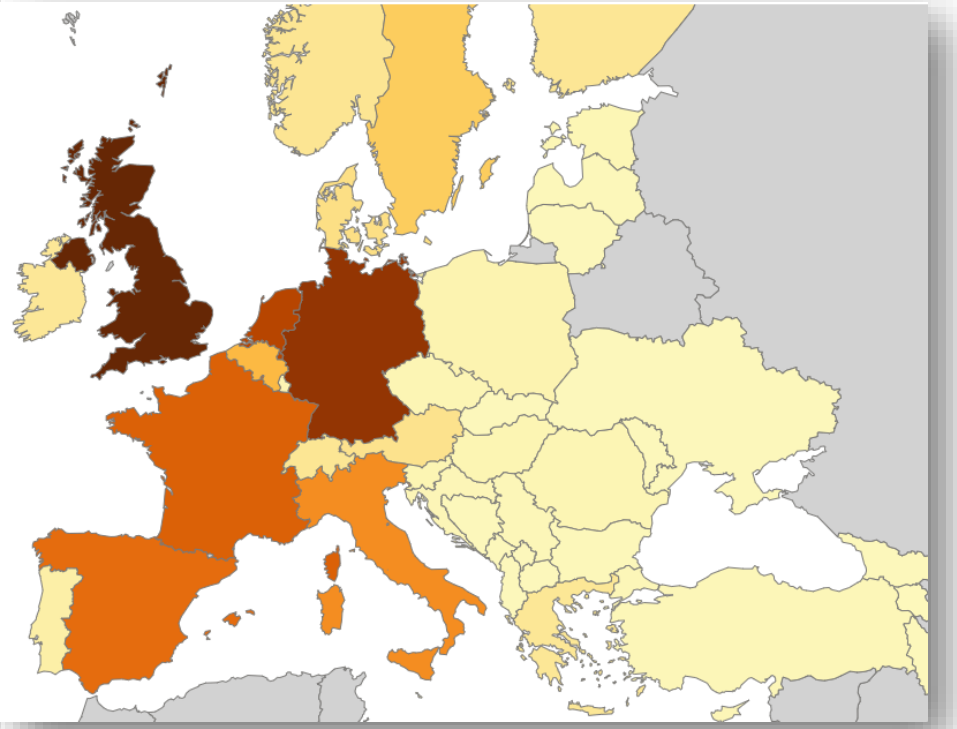
https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/horizon-dashboard

Thematic Priorit...
Health, demographic...

H2020 Participations

Top Participating Countries - Regions

Country	H2020 Participations	%	H2020 Net EU Contribution
Totals	**10.388**	**100,0%**	**€ 4.767.282.370**
United Kingdom	1.328	12,8%	€ 727.673.089
Germany	1.257	12,1%	€ 635.508.599
Netherlands	889	8,6%	€ 560.983.605
France	994	9,6%	€ 469.397.835
Spain	995	9,6%	€ 437.701.408
Italy	855	8,2%	€ 351.144.755
Belgium	594	5,7%	€ 242.477.416
Sweden	365	3,5%	€ 185.539.756
Denmark	280	2,7%	€ 123.148.338
Austria	202	1,9%	€ 110.725.529
Norway	134	1,3%	€ 100.071.315
Ireland	159	1,5%	€ 91.189.213
Switzerland	336	3,2%	€ 98.409.119
Finland	195	1,9%	€ 95.956.990
Greece	244	2,3%	€ 92.562.068
United States	192	1,8%	€ 53.315.824
Israel	121	1,2%	€ 49.693.361
Portugal	159	1,5%	€ 48.892.264
Poland	96	0,9%	€ 26.774.056
Luxembourg	64	0,6%	€ 21.439.352
Hungary	63	0,6%	€ 20.512.832
Slovenia	71	0,7%	€ 19.903.524



Thematic Priorit...
Health, demographic...

H2020 Participations

Top Participants

Legal Name	Country	City	H2020 Participati...	H2020 Net EU Contribution	H2020 EU Contribution	Organisation Profile
Totals			**10.388**	**€ 4.767.282.370**	**€ 4.767.282.370**	
INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE	FR - France	PARIS	116	€ 104.072.835	€ 112.048.549	Organisation Profile
LONDON SCHOOL OF HYGIENE AND TROPICAL MEDICINE ROYAL CHARTER	UK - United Kingdom	LONDON	25	€ 73.499.559	€ 73.499.559	Organisation Profile
THE CHANCELLOR, MASTERS AND SCHOLARS OF THE UNIVERSITY OF OXFORD	UK - United Kingdom	OXFORD	70	€ 67.312.491	€ 67.312.491	Organisation Profile
ERASMUS UNIVERSITAIR MEDISCH CENTRUM ROTTERDAM	NL - Netherlands	ROTTERDAM	67	€ 59.438.288	€ 59.438.288	Organisation Profile
KAROLINSKA INSTITUTET	SE - Sweden	STOCKHOLM	84	€ 51.086.803	€ 53.550.196	Organisation Profile
STICHTING KATHOLIEKE UNIVERSITEIT	NL - Netherlands	NIJMEGEN	49	€ 52.942.045	€ 52.672.099	Organisation Profile
KING'S COLLEGE LONDON	UK - United Kingdom	LONDON	48	€ 49.748.804	€ 49.748.804	Organisation Profile
IMPERIAL COLLEGE OF SCIENCE TECHNOLOGY AND MEDICINE	UK - United Kingdom	LONDON	40	€ 49.334.050	€ 49.334.050	Organisation Profile
UNIVERSITAIR MEDISCH CENTRUM UTRECHT	NL - Netherlands	UTRECHT	48	€ 49.611.762	€ 49.035.096	Organisation Profile
UNIVERSITY COLLEGE LONDON	UK - United Kingdom	LONDON	62	€ 46.333.101	€ 46.333.101	Organisation Profile
KATHOLIEKE UNIVERSITEIT LEUVEN	BE - Belgium	LEUVEN	62	€ 43.067.471	€ 43.052.104	Organisation Profile
ACADEMISCH ZIEKENHUIS LEIDEN	NL - Netherlands	LEIDEN	50	€ 37.596.175	€ 38.378.345	Organisation Profile

Turkey H2020-Health participation – Some figures

H2020 Signed Grants	H2020 EU Contribution	H2020 Total Cost
25 0,09% of H2020	9,28M 0,02% of H2020	16,41M 0,03% of H2020

Average Participation per Project	Average EU Contribution per Pro...	Average Total Cost per Project
1,16	371,3k	656,2k

DASHBOARD:
https://webgate.ec.europa.eu/dashboard/sense/app/93297a69-09fd-4ef5-889f-b83c4e21d33e/sheet/erUXRa/state/analysis

Country: Turkey | Thematic Priorit...: Health, demographic...

H2020 Projects

Top Topics

Topic	Topic Descr	H2020 Signed Grants	H2020 EU Contribution	H2020 Net EU Contribution	Topic description
Totals		**25**	**€ 9.283.462**	**€ 9.548.981**	
SC1-DTH-10-2019-2020	Digital health and care services	1	€ 1.133.505	€ 1.133.505	Topic description
SC1-BHC-04-2018	Rare Disease European Joint Programme Cofund	1	€ 1.098.798	€ 1.098.798	Topic description
SC1-PM-12-2016	PCP - eHealth innovation in empowering the patient	1	€ 923.337	€ 923.337	Topic description
PHC-28-2015	Self management of health and disease and decision support systems based on predictive computer modelling used by	1	€ 640.400	€ 640.400	Topic description
SC1-PM-21-2016	Implementation research for scaling-up of evidence based innovations and good practice in Europe and low- and middle-	1	€ 620.014	€ 620.014	Topic description
PHC-25-2015	Advanced ICT systems and services for integrated care	1	€ 611.250	€ 611.250	Topic description
SC1-DTH-11-2019	Large Scale pilots of personalised & outcome based integrated care	1	€ 569.415	€ 569.415	Topic description
SC1-HCO-07-2017	Global Alliance for Chronic Diseases (GACD) prevention and management of mental disorders	1	€ 406.226	€ 406.226	Topic description
HCO-10-2014	ERA NET rare disease research implementing IRDiRC objectives	1	€ 384.635	€ 384.635	Topic description
HCO-11-2015	ERA NET Collaboration and alignment of national programmes and activities in the area of brain-related diseases and	1	€ 376.613	€ 376.613	Topic description
SC1-DTH-01-2019	Big data and Artificial Intelligence for monitoring health status and quality of life after the cancer treatment	1	€ 356.875	€ 356.875	Topic description

H2020 Participations

Top Participants

Legal Name	Country	City	H2020 Participati...	H2020 Net EU Contribution	H2020 EU Contribution	Organisation Profile
Totals			**29**	**€ 9.548.981**	**€ 9.283.462**	
TURKIYE BILIMSEL VE TEKNOLOJIK ARASTIRMA KURUMU	TR - Turkey	ANKARA	9	€ 3.251.233	€ 3.251.233	Organisation Profile
Turkiye Cumhuriyeti Saglik Bakanligi	TR - Turkey	ANKARA	2	€ 2.056.842	€ 2.056.842	Organisation Profile
SRDC YAZILIM ARASTIRMA VE GELISTIRME VE DANISMANLIK TICARET ANONIM SIRKETI	TR - Turkey	ANKARA	4	€ 1.860.271	€ 1.860.271	Organisation Profile
ISTANBUL SEHIR UNIVERSITESI	TR - Turkey	DRAGOS KARTAL ISTANBUL	2	€ 639.846	€ 639.846	Organisation Profile
MULTECILER VE SIGINMACILAR YARDIMLASMA VE DAYANISMA DERNEGI	TR - Turkey	ISTANBUL	1	€ 386.394	€ 386.394	Organisation Profile
EMODA BILGISAYAR YAZILIM CEVRE DONANIMLARI REKLAMCILIK BEYAZ ESYA	TR - Turkey	IZMIR	1	€ 356.875	€ 356.875	Organisation Profile
ACIBADEM UNIVERSITESI	TR - Turkey	ISTANBUL	1	€ 223.365	€ 223.365	Organisation Profile
SIVAS CUMHURIYET UNIVERSITESI	TR - Turkey	SIVAS	1	€ 140.250	€ 140.250	Organisation Profile
KAFKAS UNIVERSITESI	TR - Turkey	KARS	1	€ 134.375	€ 134.375	Organisation Profile
HACETTEPE UNIVERSITESI	TR - Turkey	CANKAYA ANKARA	2	€ 84.011	€ 84.011	Organisation Profile
KUARTISMED MEDIKAL ARASTIRMA GELISTIRME DANISMANLIK EGITIM SANAYI	TR - Turkey	CANKAYA ANKARA	1	€ 50.000	€ 50.000	Organisation Profile