EU Funding for Health
Horizon 2020
Summary of Work Programme
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Horizon 2020 National Launch
18 October 2017
Horizon 2020 is the biggest EU Research and Innovation programme ever

€80 billion of funding available over 7 years (2014 to 2020)

It promises more breakthroughs, discoveries and world-firsts by taking great ideas from the lab to the market.
Health Results 2014-2017

- **2014 - €16,229,106**
  - 2.75% of the available health budget. A total of 23 projects including 4 R&I coordinators & 5 SME Instrument funded, a large increase in the number of applications from Irish coordinators
  - 56 Irish coordinator applicants during 2014.
  - By comparison, in FP7 the highest number in any one year was 14 (2012)
  - 69 Irish coordinator applicants during the entire seven-year lifetime of FP7

- **2015 - €14,793,900  2.49% of available budget**
  - 25% increase in applications to the first stage of the two-stage call compared to the 2014 two-stage call
  - 12 projects including two R&I coordinators and two SME coordinator have been funded.

- **2016 - €8,937,144**
  - A total of 13 projects including one R&I coordinator and one SME instrument coordinator were funded

- **2017 - €11,272,372** a total of 9 projects including one R&I coordinator and two SME instrument coordinators were funded

Total €51,232,521 - 2.3% of health budget
Health Successes

2014 Coordinators
Two-stage
• Tim O’Brien, NUI Galway (Coordinator) Nephstrom, Novel Stromal Cell Therapy for Diabetic Kidney Disease

ICT Single-stage
• Kieran Moran, School of Health Sciences, DCU (Coordinator), PATHway, Technology enabled behavioural change as a pathway towards better self-management of CVD (ICT for Health call)
• Dympna Casey, School of Nursing, NUI Galway (Coordinator), MARIO, 'Managing active and healthy aging with use of caring service robots (ICT for Health call)

Single-stage
• Frank Barry, REMEDI Galway, (Coordinator), ADIPOA2, Clinical trial of autologous adipose-derived mesenchymal stromal cells (ASC) in the treatment of mild to moderate osteoarthritis (regenerative medicine)

2015 Coordinators
• Mary Murphy, REMEDI, NUI Galway, Development of closed, scalable and AUTOmated robotic systems for therapeutic STEM cell manufacturing: aseptic systems from “Donor-to-Patient”
• John Dinsmore), School of Nursing and Midwifery,TCD. ‘Integrated Technology Ecosystem for ProACTive Patient Centred Care’. IBM Ireland & Phillips UK are partners (ICT for Health call)

2016 Coordinator – Ruairi Brugha, RCSI, SURG-Africa Scaling up Safe Surgery for District and Rural Populations in Africa’

2017 Coordinator – Annette Byrne, RCSI, COLOSSUS Advancing a Precision Medicine Paradigm in metastatic Colorectal Cancer: Systems based stratification solutions
Ireland’s success in the SME instrument

Successes in Health - €20 million

2014
Phase 1: Vitalograph, BlueBridge Technologies, Inform Bio,
Phase 2: Radisens Diagnostics €4.5 million
   Biosensia €0.6 million

2015
Phase 1: Atturos Ltd, Hbergene Diagnostics Ltd
Phase 2: Oncomark €2.7 million
   PMD Solutions €4.26 million

2016 Phase 2: SiriusXT €3 million

2017 Phase 2: Altratech Limited, €3 million, Valitacell Ltd €2

(SME instrument - Work Programme – Towards the next EU Framework Programme for Research & Innovation Council (EIC) Pilot)
Building on the principle of openness – open science, open innovation and open to the world, the societal challenge 1 on 'health, demographic change and well-being' (SC1) aims to deliver solutions for a better health for all by:

- Moving towards the effective integration of personalised medicine approaches into healthcare services and systems to the benefit of patients and citizens;
- Fighting infectious diseases and the growing threat of antimicrobial resistance;
- Addressing the needs of the most vulnerable groups and the global increase of chronic diseases;
- Decoding the role of environment – including climate change and air quality – on health and developing mitigating measures;
- Exploring the digital potential for health innovation and healthcare, including the building of a 'European health research and innovation cloud';
- Stimulating innovation in the European healthcare domain and industry by exploring the application of advanced technologies, improve the health of the workforce and promote regulatory science.
2018-2019 closing dates & budgets

• 1 two-stage call 2018 - 6 Feb 2018 (1st Stage) SC1-BHC-15-2018
  4 Sep 2018 (2nd Stage)
• 6 two-stage calls 2019 - 2 Oct 2018 (1st Stage)
  16 Apr 2019 (2nd Stage)
• Opening date 2018 call 7 Nov 2017 – Single-stage closing, 18 April 2018
  2019 call 26 July 2018 – Single-stage closing, 16 April 2019
• All CNECT calls single stage – closing 24th April 2018 and 2019 (14 Nov 2018)
• Budget 2018 - €621.19M (€536.19M)
  2019 - €686.38M

Council proposed cut to 2018 budget - €85M, €70M RTD, €15M CNECT

Pre-published Work Programme available
2018-2020 Work Programme topics 2018-2019
Better Health and Care, economic growth and sustainable health (BHC)

- **Personalised Medicine**
  - 8 topics
  - 2 CSA’s, 1 ERA NET

- **Innovative Health & Care Industry**
  - 4 topics
  - 1 CSA

- **Infectious diseases & improving global health**
  - 12 topics
  - 5 CSA’s

- **Innovative health & care systems – integrated care**
  - 5 topics
  - 1 CSA

- **Decoding the role of the environment, including climate change for health & wellbeing**
  - 3 topics
  - 1 CSA
2018-2020 Work Programme

topics 2018-2019

• Digital Transformation in Health and Care (DTH) – 13 topics, 5 CSAs

• Trusted digital solutions and Cybersecurity in Health and Care (TDS) 3 topics

• 2 Focus areas
  • Focus area on digitising and transforming European industry and services
  • Focus area on boosting the effectiveness of the security union
Personalised Medicine

- SC1-BHC-01-2019 Understanding causative mechanisms in co- and multimorbidities €4-6M - Total €70M 2 stage, 1st stage 2nd Oct 2018, second stage 16th April 2019
- SC1-BHC-02-2019 Systems approaches for the discovery of combinatorial therapies for complex disorders €4-6M – Total €50M 2 stage, 1st stage 2nd Oct 2018, second stage 16th April 2019
- SC1-BHC-03-2018 Exploiting research results and potential of the human microbiome for personalised prediction, prevention and treatment of disease €10-15M Total €50M Single stage-18th April 2018
- SC1-BHC-04-2018 Rare Disease European Joint Programme Co-fund €45-50M Total €55M Single stage 18th April 2018
Personalised Medicine continued

• SC1-BHC-05-2018 International flagship collaboration with Canada for human data storage, integration and sharing to enable personalised medicine approaches €4-6M Total €40M Single stage 18th April 2018
• SC1-HCO-01-2018-2019-2020 Actions in support of International Consortium for Personalised Medicine €1.5-2M Total €8M Single stage 18th April
• SC1-HCO-02-2018 Data integration and data-driven in-silico models for enabling personalised medicine – a European standardization framework €1.5-2M Total €2M Single stage 18th April 2018
• SC1-HCO-04-2018 ERA-NET to support the Joint Programming in Neurodegenerative Diseases strategic plan (JPND) €4-5M Total €5M Single stage 18th April 2018
Innovative Health and Care Industry

• SC1-BHC0-7-2019 Regenerative medicine: from new insights to new applications €6-8M Total €50M Single stage 18th April 2018
• SC1-BHC-09-2018 Innovative platforms for advanced therapies of the future €12-15M Total €54M Single stage 18th April 2018
• SC1-BHC-10-2019 Innovation Procurement: Next generation sequencing (NGS) for routine diagnosis (PCP) €9-11M Total €40M 16th April 2019
• SC1-HCO-05-2018 Strengthen Regulatory Sciences and support for regulatory Scientific Advice €1.5-2M Total €2M 18th April 2018
Infectious Diseases and Improving Global Health

- SC1-BHC-13-2019 Mining big data for early detection of infectious disease threats driven by climate change and other factors €12-15M Total €30M Single stage 16th April 2019
- SC1-BHC-14-2019 Stratified host-directed approaches to improve prevention, treatment and/or cure of infectious diseases €6-10M Total €95M 2 stage, 1st stage 2nd Oct 2018, second stage 16th April 2019
- SC1-BHC-15-2018 New anti-infective agents for prevention and/or treatment of neglected infectious diseases (NID) €5-10M total €52M 2 stage, 1st stage 6 Feb 2018, second stage 4th Sep 2018
Infectious Diseases and Improving Global Health

• SC1-BHC-16-2018 Global Alliance for Chronic Diseases (GACD) – Scaling-up of evidence-based health interventions at population level for the prevention, detection and management of hypertension and/or diabetes €2-4M Total €20M Single stage 18th April 2018

• SC1-BHC-18-2018 Translational collaborative cancer research between Europe and the Community of Latin America and Caribbean States (CELAC) €2-4M Total €25 Single stage 18th April 2018

• SC1-BHC-19-2019 Implementation research for maternal and child health €2-4M Total €25M 2 stage, 1st stage 2nd Oct 2018, second stage 16th April 2019
Infectious Diseases and Improving Global Health

• SC1-BHC-21-2018 Research on HIV, tuberculosis (TB) and/or hepatitis C (HCV) in patients with mono-, co-infections and/or comorbidities in the context of fostering collaboration with the Russian Federation €2-3M Total €10M Single stage 18th April 2018

• SC1-HCO-06-2018 Establishment of an International Network of Social Sciences Research Centres to help address governance and other challenges in the preparedness for and the response to infectious threats €2-3M Total €3M Single stage 18th April 2018

• SC1-HCO-08-2019 Creation of a European wide sustainable clinical research network for infectious diseases €2-3M Total €3M Single stage 18th April 2018
Infectious Diseases and Improving Global Health

• SC1-HCO-09-2018 Building international efforts on population and patient cohorts €1-2M Total €2M Single stage 18th April 2018

• SC1-HCO-10-2018 Coordinating European brain research and developing global initiatives €1-2M Total €2M Single stage 18th April 2018

• SC1-HCO-11-2018 Strategic collaboration in health research and innovation between EU and China €0.8-1M Total €1M Single stage 18th April 2018
Innovative health and care systems – Integration of care

• SC1-BHC-22-2019 Mental health in the workplace €2-4M Total €30M
  2 stage, 1st stage 2nd Oct 2018, second stage 16th April 2019
• SC1-BHC-23-2018 Novel patient-centred approaches for survivorship, palliation and/or end-of-life care €3-4M Total €44M
  Single stage 18th April 2018
• SC1-BHC-25-2018 Demonstration pilots for implementation of personalised medicine in healthcare €18-20M Total €60M
  2 stage, 1st stage 2nd Oct 2018, second stage 16th April 2019
• SC1-BHC-26-2018 HTA research to support evidence-based healthcare €5-10M Total €10M Single stage 18th April 2018
• SC1-HCO-12-2018 Innovation in healthcare- a CSA towards using pre-commercial procurement and public procurement of innovative solutions in healthcare systems €1.5-2M Total €2M Single stage 18th April 2018
Decoding the role of the environment, including climate change for health and well-being

- SC1-BHC-27-2018 New testing and screening methods to identify endocrine disrupting chemicals €4-6M Total €52M Single stage 18th April 2018
- SC1-BHC-28-2019 The Human Exposome Project: a toolbox for assessing and addressing the impact of environment on health €8-12M Total €50M Single stage 16th April 2019
- SC1-HCO-13-2018 Setting the priorities for a European environment, climate and health research agenda €2-3M Total €3M Single stage 18th April 2018
Digital transformation in Health and Care

- SC1-DTH-01-2019 Big data and artificial Intelligence for monitoring health status and quality of life after cancer treatment €3-5M Total €35 Single stage 24th April 2019
- SC1-DTH-03-2018 Adaptive smart working and living environments supporting active and healthy ageing €3-4M Total €25M Single stage 24th April 2019
- SC1-DTH-05-2019 Large scale implementation of digital innovation for health and care in an ageing society €2-5M Total €10M Single stage 24th April 2019
- SC1-DTH-07-2018 Exploiting the full potential of in-silico medicine research for personalised diagnostics and therapies in cloud-based environments €10-15M Total €35 Single stage 24th April 2018
Digital transformation in Health and Care

- SC1-DTH-08-2018 Prototyping a European interoperable Electronic Health Record (HER) exchange €6-10M Total €30M Single stage 24th April 2018
- SC1-DTH-09-2019 Scaling up the universal univocal Identification of Medicinal Products €5-8M Total €19M Single stage 24th April 2019
- SC1-DTH-10-2019-2020 Digital health and care services (PCP) €5-6M Total €22 Single stage 14th Nov 2018
- SC1-DTH-11-2019 Large scale pilots of personalised & outcome based integrated care €4-6M Total €20M Single stage 24th April 2019
Digital transformation in Health and Care

• SC1-HCC-01-2018 Supporting investment in smart living environments for ageing well through certification  €1M Total €1M Single stage 24th April 2018
• SC1-HCC-02-2019 Support for large scale uptake of open service platforms in the Active and Healthy Ageing domain  €1.5M Total  €1.5M Single stage 24th April 2019
• SC1-HCC-03-2018 Support to further development of international cooperation in digital transformation of health and care  €2M Total €2M Single stage 24th April 2018
• SC1-HCC-04-2018 Digital health and care services – support for strategy and (early) adoption  €3M Total  €3M Single stage 24th April 2018
• SC1-HCC-05-2018 Support to a Digital Health and Care Innovation Initiative in the context of Digital Single Market strategy  €4M Total  €4M Single stage 24th April 2018
Trusted digital solutions and
Cybersecurity in Health and Care

Focus Area on Digitising and transforming European industry and services
• DT-TDS-01-2019 Smart and healthy living at home €15-20M Total €60 Single stage 14th Nov 2018

Focus Area on Boosting the effectiveness of the Security Union
• SU-TDS-02-2018: Toolkit for assessing and reducing cyber risks in hospitals and care centres to protect privacy/data/infrastructures €3-5M Total €35M Single stage 24th April 2018
• SU-TDS-03-2018: Raising awareness and developing training schemes on cybersecurity in hospitals €1M Total €1M Single stage 24th April 2018
Where to Start

- Start preparing early – as soon as draft Work Programme is available
- NCP
- Colleagues in university/ previously funded researchers
- Read Work Programme
- Participant portal – download criteria for call
- Register as soon as call is open
- Check deadlines
Use supports available
Supports

• Horizon 2020 online manual
• Guidance on How to complete your ethics self-assessment/Templates Clinical Trials
• NCPs
• Research Office
• Coordinator Support & Travel Funding EI
  – Academic Coordinator support (€12,500) – application deadline – 10 weeks before call deadline
  – Travel Support – visits by Irish researchers abroad to meet potential partners
  – Application forms are available to download from http://www.horizon2020.ie/who-to-contact/financial-assistance-for-horizon2020/
Events

• 30 October - A general Info-Day with the presence of the Commissioner(s), Brussels

• 7th December – Partnering event: http://www.healthncp.net/news-events/horizon-2020-health-partnering-day-2017-brussels-be registration will open on 8th October until 31st October at the following link https://www.b2match.eu/healthBE2017

• 7th December - Satellite event on Innovation Procurement in health care – registration is open - limited to 80 participants - First come, first served basis http://ec.europa.eu/research/index.cfm?pg=events&lg=en&filter=none&theme=0&period=2017&selectmonth=12

• 8th December - Health Info day Brussels
Health NCPs & ND for Ireland

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