Horizon 2020 Work Programme for Research & Innovation 2018-2020

The societal challenge 'Health, demographic change and well-being'

This presentation is based on a draft WP which is still to be formally adopted by the Commission. Only the adopted work programme will have legal value
Almost 80 bn € in the period 2014-2020
Health R&D in Europe and in US

Total public funding for health research & development (source: Research!America, 2012; GBAORD, Eurostat 2014) - (in billion euro per year)

- US - Health R&D = 30% of Civil public R&D
- EU – Health R&D = 8% of Civil public R&D
- H2020 – Health (SC1) = 10% of H2020 total

- H2020 SC1 Health: 12,5% of EU total
- EU total: 31,1% of US total
Health Research in Horizon 2020

Collaborative R&I projects
Public-Private Partnership with big Pharma
Grants for small businesses
InnoFin
Loans for small & large companies
Horizon Prize
Prizes
Education – R&D – Innovation

Public-Public Partnerships with EU Member States & beyond

Horizon 2020
Work Programme 2018-20 – Health (SC1)

- Pre-published draft work programme (99% of final):
- 2018-19 firm, 2020 indicative topics
- 7 priorities, 42 call topics ('18-'19) with €1.4 billion funding available
- Average budget per call topic €33 million
- Individual project sizes: €3 – 50 million
- Opening: 7 Nov 2017 – first deadline 6 Feb 2018
**Type of Action:** Research and Innovation action

**SC1-BHC-02-2019:** Systems approaches for the discovery of combinatorial therapies for complex disorders

**Specific Challenge:** Many complex disorders pose a challenge to identify the most effective […]

**Scope:** Proposals should identify and validate […] proposals requesting a contribution from the EU of between EUR 4 and 6 million would allow this specific challenge to be addressed appropriately. Nonetheless, this does not preclude submission and selection of proposals requesting other amounts.

**Expected Impact:**

- New directions for clinical research to improve […]
Health collaborative research 2018–2020

Personalised medicine

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

Improving global health

Innovative health and care industry

Innovative health, and care systems - Integration of care

Digital transformation in Health and Care

Trusted Big Data solutions and Cybersecurity for Health and Care
Call topic examples

• BHC-04-2018: Rare Disease European Joint Programme Cofund
  **Budget: €55 million**
  **Project size: €50-55 million**

• 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
  **Budget: €10 million**
  **Project size: €2-3 million**
Call topic examples

• BHC-28-2019: The Human Exposome Project: a toolbox for assessing and addressing the impact of environment on health
  
  **Budget: €50 million**
  
  **Project size: €8-12 million**

• BHC-25-2019: Demonstration pilots for implementation of personalised medicine in healthcare
  
  **Budget: €60 million**
  
  **Project size: €18-20 million**
The Widening Package under H2020

Measures in Horizon 2020 under Spreading Excellence and Widening Participation:

- Teaming (institution building)
- Twinning (institutional networking)
- ERA Chairs (bringing excellence to institutions)

Total Budget in H2020 ~ €800 million

"Low RDI Performing" or "Widening" Countries:

**MS:** Bulgaria, Croatia, Cyprus, Czech Republic, Estonia, Hungary, Latvia, Lithuania, Luxembourg, Malta, Poland, Portugal, Romania, Slovakia and Slovenia

**AC:** Albania, (Armenia), Bosnia and Herzegovina, Faroe Islands, Former Yugoslav Republic of Macedon, Georgia, Moldova, Montenegro, Serbia, Tunisia, Turkey and Ukraine
Teaming

- Creation of new (or significant upgrade of existing) Centres of Excellence in low R&I performing or "Widening" countries

The Partnership: 2 parties in each Teaming project
- (1) the COORDINATOR from a "Widening" country
- (2) a university or res. organisation with an international reputation in R&I excellence (from all EU28 or AC)

- **Phase 1 – € 400k**
- **Phase 2 – up to € 15m**
ERA chairs

• Bring high quality researchers and managers (the ERA Chair and his/her team) to universities and other research organisations with the potential for research excellence.

• Institutions should implement structural changes to achieve excellence on a sustainable basis.

• One beneficiary

• Funding: up to €2.5 million
**Twinning**

• Strengthen a **defined field of research** in a university or research organisation from a Widening country by linking it with at least two internationally-leading research institutions.

• **short term staff exchanges; expert visits and training courses; workshops; conference attendance; dissemination and outreach activities.**

• **Funding:** up to **€1 million**, infrastructure, equipment & research costs will NOT be funded.
Alliance4Life - Closing the Research and Innovation Divide in the European Union

• 10 leading life science institutes from 9 CEE (widening) countries
• Coordinated by CEITEC
• Joining forces and share good practice
  • To raise institutional profiles
  • Attract and retain international talents
  • Improve research management and governance
  • Increase participation in EU funded research programmes
• Starts on 1 January 2018 - 2 years duration, €1 million
Thank you!

@EUScienceInnov
#InvestEUresearch
#EUHealthResearch

http://ec.europa.eu/research/health
http://ec.europa.eu/research/participants/portal