

EU Research Funding Horizon 2020

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Research Success Story



Project title:	EbolaVac
Research area:	Clinical Trial
Partners:	GSK (coordinator), University of Oxford, BNITM, CHUV
Duration:	3 years (7.10.2014 – 7.10.2017)
Project cost:	€19.86 M
Project funding:	€19.86 M
Programme:	Horizon 2020 Societal Challenge: “Health, demographic change and well-being”
Information:	http://ebolavac.eu

Content

- *What is Euresearch ?*
- *Our services*
- *Funding opportunities for Health research in Horizon2020:*
 - . *European Research Council (ERC)*
 - . *Marie Skłodowska-Curie Actions (MSCA)*
 - . *Societal Challenge «Health»*

The Euresearch network

- **Network Office** *in Bern*
(NCPs)

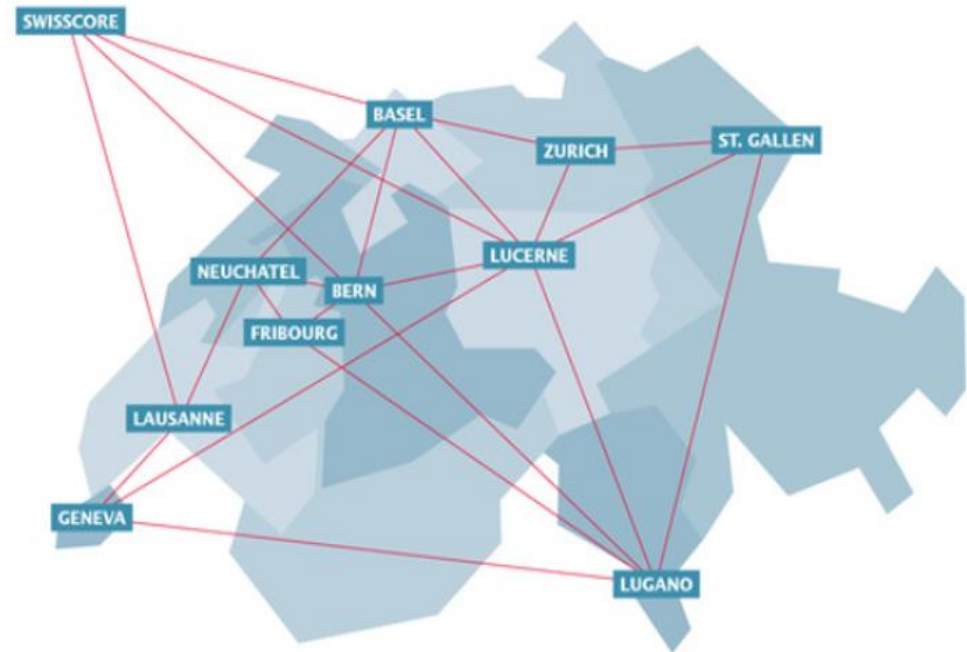
- **10 Offices** *in the regions*

1. *Basel*
2. *Bern*
3. *Freiburg*
4. *Geneva*
5. **Lausanne**
6. *Lugano*
7. *Luzern*
8. *Neuchatel*
9. *St. Gallen*
10. *Zurich*

- **3 UAS** *Contact Points*

- **SME** *Contact Points*

- + **Swisscore** *in Brussels*



Swiss network funded by the State Secretariat for Education, Research and Innovation (SERI) to provide targeted information, hands-on advice and transnational partnering related to European R&I programmes.



[Profile yourself](https://www.euresearch.ch) to get information on EU R&I opportunities

<https://www.euresearch.ch>

What's Horizon2020?



**EU's 2014-2020 programme
for R&I (~€80 bn)**

**Core part of Europe 2020,
Innovation Union & European
Research Area**

- Responding to the economic crisis to invest in future jobs and growth
- Addressing people's concerns about their livelihoods, safety and environment
- Strengthening the EU's global position in research, innovation and technology

<http://ec.europa.eu/research/horizon2020>

Why participate?



-> Whatever your reasons, your project has to fit the expectations of the European Commission.

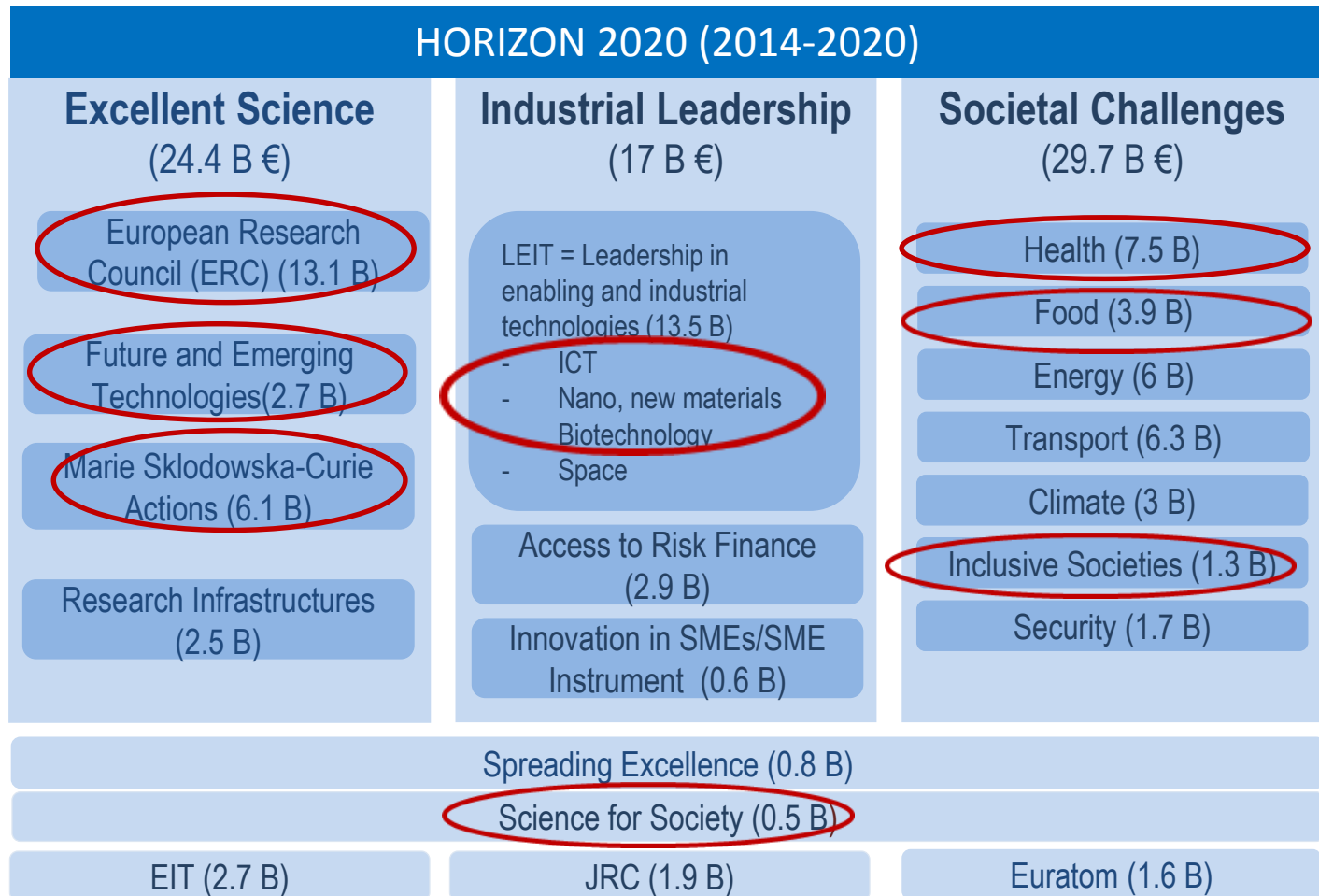
- . *A new boost for jobs, growth & investment*
- . *A connected Digital Single Market*
- . *EU as a stronger global actor*



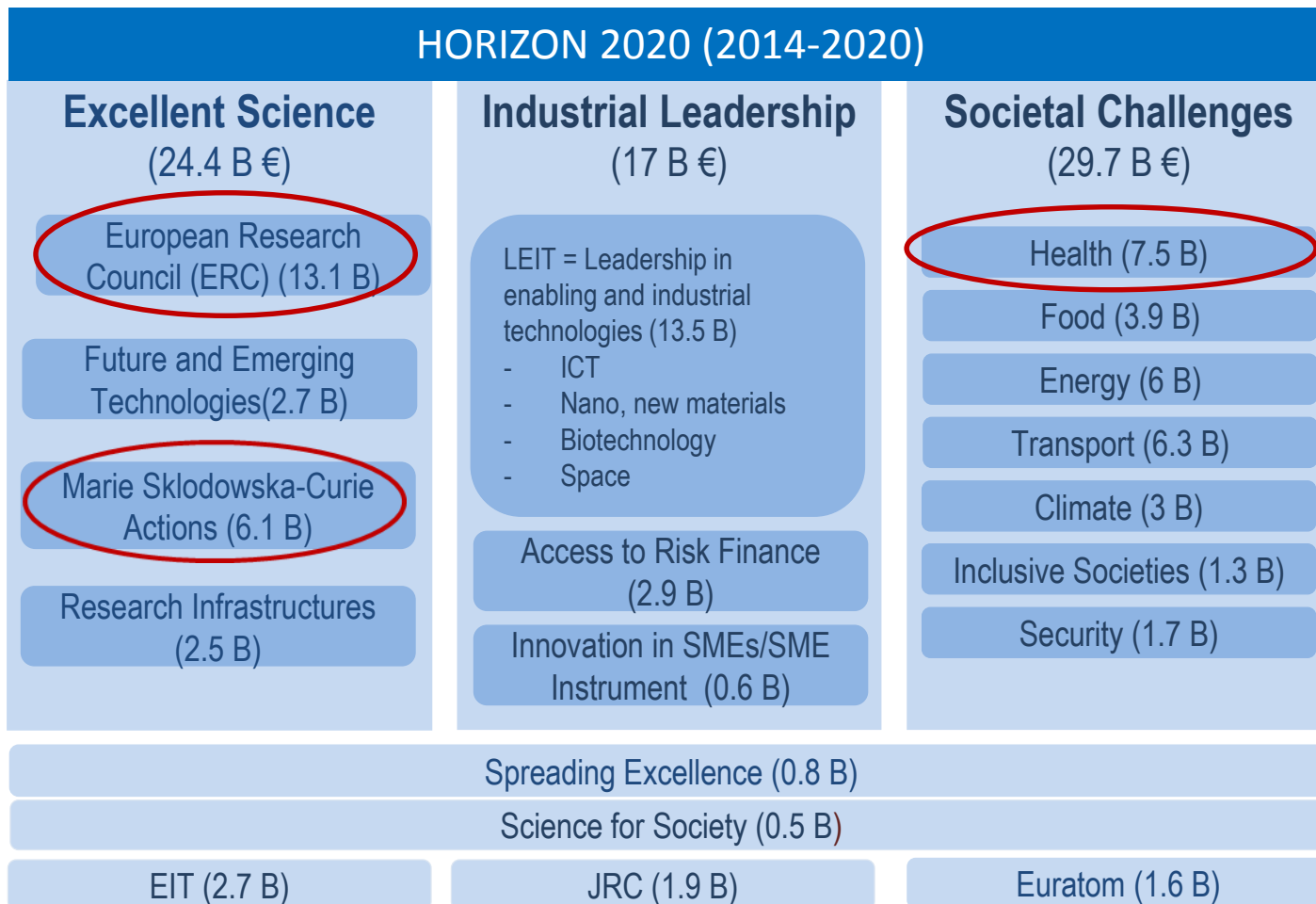
Health Research in Horizon 2020



Where to find opportunities?



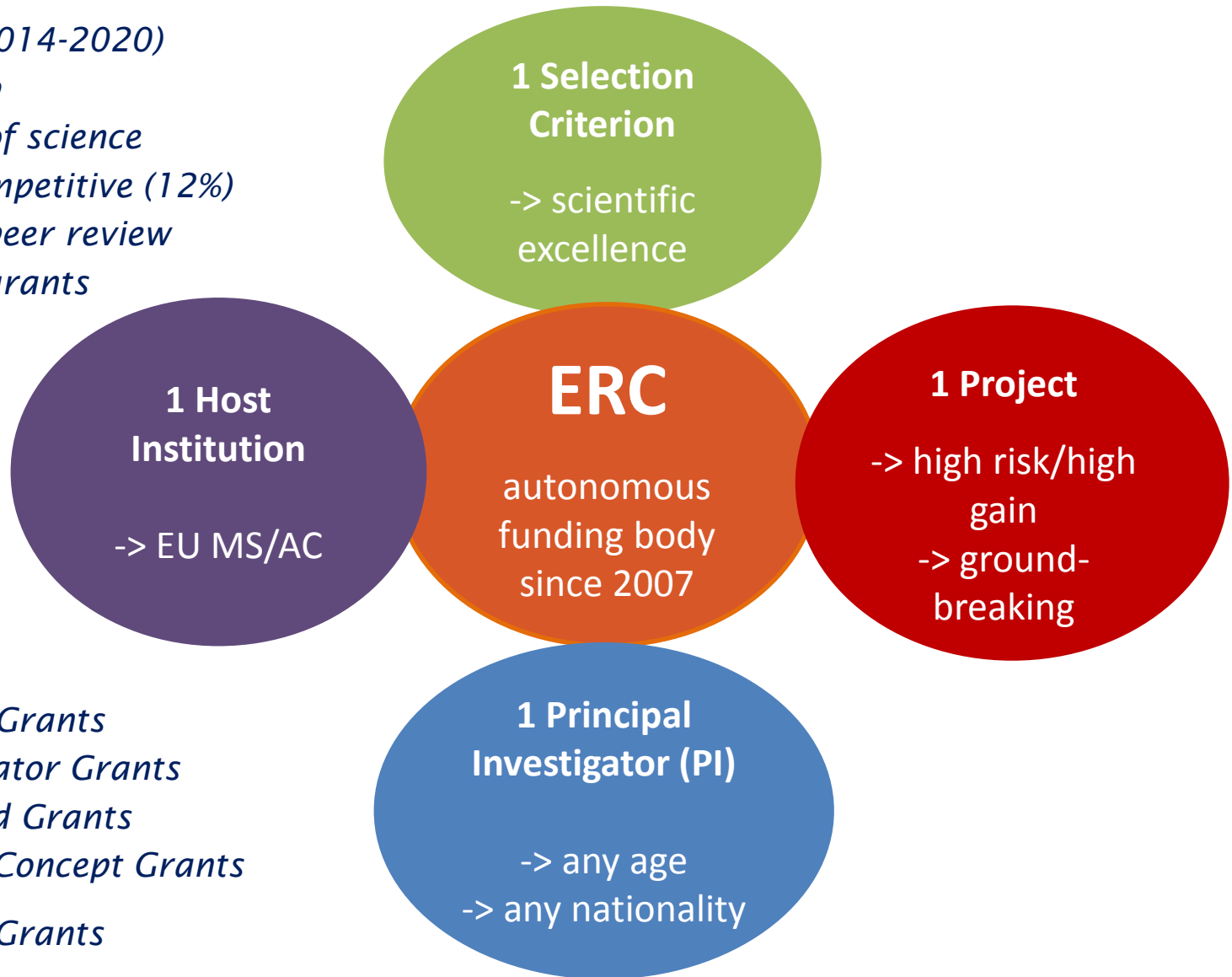
Full association of Switzerland to H2020 as of 1st January 2017



European Research Council (ERC)

ERC in a nutshell

- > €13 bn (2014-2020)
- > *bottom-up*
- > *all fields of science*
- > *highly competitive (12%)*
- > *top level peer review*
- > *portable grants*



- *Starting Grants*
- *Consolidator Grants*
- *Advanced Grants*
- *Proof of Concept Grants*
- *Synergy Grants*

ERC funding schemes

Starting Grant (ERC-2019-StG)

*First PhD awarded
> 2 and ≤ 7 years
prior to 1/1/19
(+2y for MD)*

Max. €1.5M / 5-y project

Deadline: mid-Oct. 18

*Time commitment of
the PI: min. 50%*

Consolidator Grant

(ERC-2018-CoG)

*First PhD awarded
> 7 and ≤ 12 years
prior to 1/1/18
(+2y for MD)*

*Call budget: €550M
(287 grants)*

Max €2 M / 5-y project

Deadline : 15/02/2018

*Commitment of the PI: min.
40%*

Advanced Grant (ERC-2018-AdG)

*Budget: €450M
(194 grants)*

Max. € 2.5 M/ 5-y project

Deadline: 30/08/2018

**Commitment of the PI:
min. 30%**

Synergy Grant (ERC-2019-SyG)

2-4 PIs / up to 6 year projects / up to €10 M

Deadline: mid-Nov. 18

Proof of Concept Grant (ERC-2019-PoC)

ERC grantees only

€150 000 for 18 months

3 cut-off dates/year

■ StG

-> *for talented early-career scientists who have already produced excellent supervised work, are ready to work independently and show potential to be research leaders.*

■ CoG

-> *for scientists who want to consolidate their independence by establishing or strengthen an excellent research team.*

■ AdG

-> *for research leaders who have a track-record of outstanding research achievements in the last 10 years.*

-> Information, docs & submission on the [Participant Portal](#)

Marie Skłodowska-Curie Actions (MSCA)



Key features

- *Entirely bottom-up*
- *Mobility as the key requirement*
- *Open to all domains of R&I*
- *Support for researchers at all stages of their career*
- *No age limit*
- *Open to researchers/staff of any nationality*



Types of MSC Actions

Action	Acronym	Aim
Individual Fellowships Individual driven action	IF	Support for experienced researchers undertaking international and inter-sector mobility (European Fellowship / Global Fellowship)
Innovative Training Networks	ITN	Doctoral and initial training
Research and Innovation Staff Exchange Host-driven actions	RISE	International and inter-sector cooperation through the exchange of staff
Co-funding of <u>programmes</u>	COFUND	Co-funding of regional, national and international <u>programmes: doctoral and fellowship programmes</u>

Next deadlines:

RISE: 18.04.18

IF: 12.09.18

COFUND: 27.09.18

ITN: 16.01.19

The Societal Challenge

«Health, demographic change and well-being»



Political goals of the “Societal Challenges”

- *Tackle global and societal challenges & concerns of citizens & society*
- *Address political priorities of the EU*
- *Inter-sectorial and multidisciplinary collaborative R&I*
- *Impact: European solutions for the European society / European consumers / patients (1/3 evaluation criteria)*

Health challenges

- *Rising health & care costs (ageing, chronic diseases, increasing societal demands)*
- *Effects on health of environmental factors including climate change*
- *Threats of infectious diseases*
- *Health inequalities, access to health & care*

>65 years: increase from 92 million (2013) to 148 (2060)

Chronic disease → cause for 77 % of all deaths in Europe

Public spending on health 7 % of GDP (2013) to 10 % in 2050

Objective

- *Improve the lifelong health and wellbeing for all -children, adults, elderly.*
- *Develop high-quality and economically sustainable health and care systems, and opportunities for new jobs and growth.*

-> major contribution to Europe 2020

Basic participation rules

- *Collaborative projects: at least 3 institutions of 3 different EU-Member States or EU-Associated Countries*
- *SMEs are especially welcome to participate*
- *US partners can participate and get funding from the EU*

Health objectives for 2018-2020

7 priorities / 3 calls

Call 1

Better health and care, economic growth and sustainable health systems

(5 main priorities & 32 topics)

Call 2

Digital transformation in health and care

(13 topics)

Call 3

Trusted digital solutions and cybersecurity in health and care

(3 topics)

**~ €1.5
billion**

Health 2018-2020: 7 priorities



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 for health and well-being



6. Digital transformation in health and care



7. Trusted big data solutions and cybersecurity for health and care

1. PERSONALISED MEDICINE



- *Understanding diseases & disorders*
- *Prevention of diseases*
- *Improved diagnosis*
- *New therapies, combinatorial therapies*
- *Human data storage*
- *Personalised medicine*

POLICY DRIVERS:

[Council conclusions on Personalised Medicine](#)

[International Consortium on Personalised Medicine](#)

[European Reference Network](#)



EXAMPLE

SC1-BHC-01-2019: **Understanding causative mechanisms in co- and multimorbidities (two-stage)**

Deadline: *2 October 2018 (1st stage)*
16 April 2019 (2nd stage)

EU contribution: *4-6 M€*

- *From bench to bed of patient*
- *Clinical research*
- *Improved prevention & diagnosis*

2. INNOVATIVE HEALTH AND CARE INDUSTRY



- *Regenerative medicine*
- *New & advanced therapies*
- *Efficacy and regulatory science of technologies*
- *Development of health technology assessment methods (HTA)*

POLICY DRIVERS:

[Upgrading the single market](#)





EXAMPLE

SC1-BHC-09-2018:

Innovative platforms for advanced therapies of the future

Deadline: *18 April 2018*

EU contribution: *12-15 M€*

- Create knowledge, testing & exploitation platforms around innovative concepts for advanced therapies
- Gene delivery, immunogenicity, cell tracking...
- Technological progress in the advanced therapy field

3. INFECTIOUS DISEASES & IMPROVING GLOBAL HEALTH



- *Maternal & child health*
- *Population & patient cohorts*
- *Global brain research*
- *Infectious diseases, earlier detection, improved prevention & treatment*
- *Prevention and management of hypertension and/or diabetes*
- *Cancer research between Europe and Latin America and the Caribbean States*
- *HIV, TB & HCV in patients in collaboration with Russia*

POLICY DRIVERS:

[Global Research Collaboration for Infectious Disease Preparedness](#)

[Global Alliance for Chronic Diseases](#) (GACD)
[A European One Health Action Plan against Antimicrobial Resistance](#)

[European & Developing Countries Clinical Trials Partnership](#) (EDCTP)

[Global Action Plan on antimicrobial resistance](#)



EXAMPLE

SC1-BHC-14-2019:

Stratified host-directed approaches to improve prevention, treatment and/or cure of infectious diseases (two-stage)

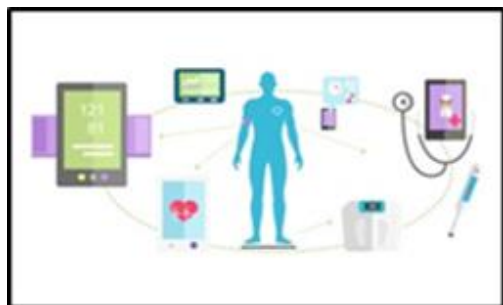
Deadline: 2 October 2018 (1st stage)

16 April 2019 (2nd stage)

EU contribution: 6-10 M€

- Increased Europe's capacity to control infectious diseases
- New product development with potentially more effective, targeted treatments OR preventive measures
- Uptake into clinical practice

4. INNOVATIVE HEALTH AND CARE SYSTEMS – INTEGRATION OF CARE



- *Mental health in the workplace*
- *Novel approaches for palliation/ end-of-life care*
- *Personalised medicine in health care*
- *HTA*
- *Innovation in health care*

POLICY DRIVERS:

[Upgrading the single market](#)

[Cross-border healthcare Directive](#)



EXAMPLE



SC1-BHC-22-2019:
Mental health in the workplace (two-stage)

Deadlines: 2 October 2018 (1st stage)
16 April 2019 (2nd stage)

EU contribution: 2-4 M€

- *Improved mental health and reduced sickness absence in the EU working population*
- *Positive impact on productivity and economic results of workplaces by improved policies and action to promote mental health*
- *Improved policies on mental health in the workplace based on the broader evidence base of effective interventions*

5. DECODING THE ROLE OF ENVIRONMENT INCLUDING CLIMATE CHANGE, FOR HEALTH AND WELL-BEING



- *New testing & screening methods to identify endocrine disrupting chemicals*
- *Impact of the environment on health (Human Exposome Project)*
- *Priorities for a European environment, climate and health research agenda*

POLICY DRIVERS:

[The 7th Environment Action Programme \(EAP\)](#)

[Sustainable Development Goals](#)

[The UNFCCC Paris Agreement](#)

[WHO Environment and Health Process \(since 1989\)](#)

[REACH and EU related policies](#)

EXAMPLE



SC1-BHC-27-2018:

New testing and screening methods to identify endocrine disrupting chemicals

Deadline: 18 April 2018

EU contribution: 4-6 M€

- New tools, methods or models to improve & harmonize screening & testing protocols for risk & hazard assessments
- Enhanced international cooperation & support for the OECD work on testing and assessing chemicals for ED activity
- Focus on regulatory needs

6. DIGITAL TRANSFORMATION IN HEALTH AND CARE



- *Open service platforms for the active and ageing*
- *Digital transformation for the ageing*
- *Digital health and care services*
- *Big data for monitoring health status after cancer*
- *Personalised early risk prediction, prevention & intervention*
- *In silico medicine research for personalised diagnostics & therapies in cloud-based environments*
- *Personalised outcome based integrated care eHealth*

POLICY DRIVERS:



European Cloud Initiative

Connected Digital
Single Market



European Free Flow of Data initiative



Silver Economy initiative

EXAMPLE



SC1-DTH-01-2019:

Big data & artificial intelligence for monitoring health status & quality of life after the cancer treatment

Deadline: 24 April 2019

EU contribution: 3-5 M€

- Mapped comprehensive big data in a manageable way by applying principles for sharing & reusability
- Create a network of knowledge
- Monitoring health status after cancer treatment
- Advanced simulation methods to study causal mechanisms
- Use patient reported outcome

7. TRUSTED DIGITAL SOLUTIONS AND CYBERSECURITY IN HEALTH AND CARE



- *Smart hospitals of the future*
- *Digital security & privacy*
- *Safe, smart & healthy living at home*
- *Cybersecurity in hospitals and care centres*
- *Cyber threats to critical infrastructures in Europe*

POLICY DRIVERS:



[Connected Digital Single Market](#)



[Big Data in healthcare](#)



[European Data Protection Regulation](#)



EXAMPLE

SU-TDS-02-2018:

**Toolkit for assessing and reducing
cyber risks in hospitals and care
centres to protect
privacy/data/infrastructures**

Deadline: *24 April 2018*

EU contribution: *3-5 M€*

- Increased patient trust & safety
- Less risk of data privacy breaches caused by cyberattacks
- Improved security of Health & Care services, data & infrastructures

H2020 project types (pillar 3)

1) Research & Innovation Action (RIA: 100% funding)

-> **collaborative research projects** *with clearly defined scientific & technological objectives*

2) Innovation Action (IA: 100 % funding for non-profit organizations:)

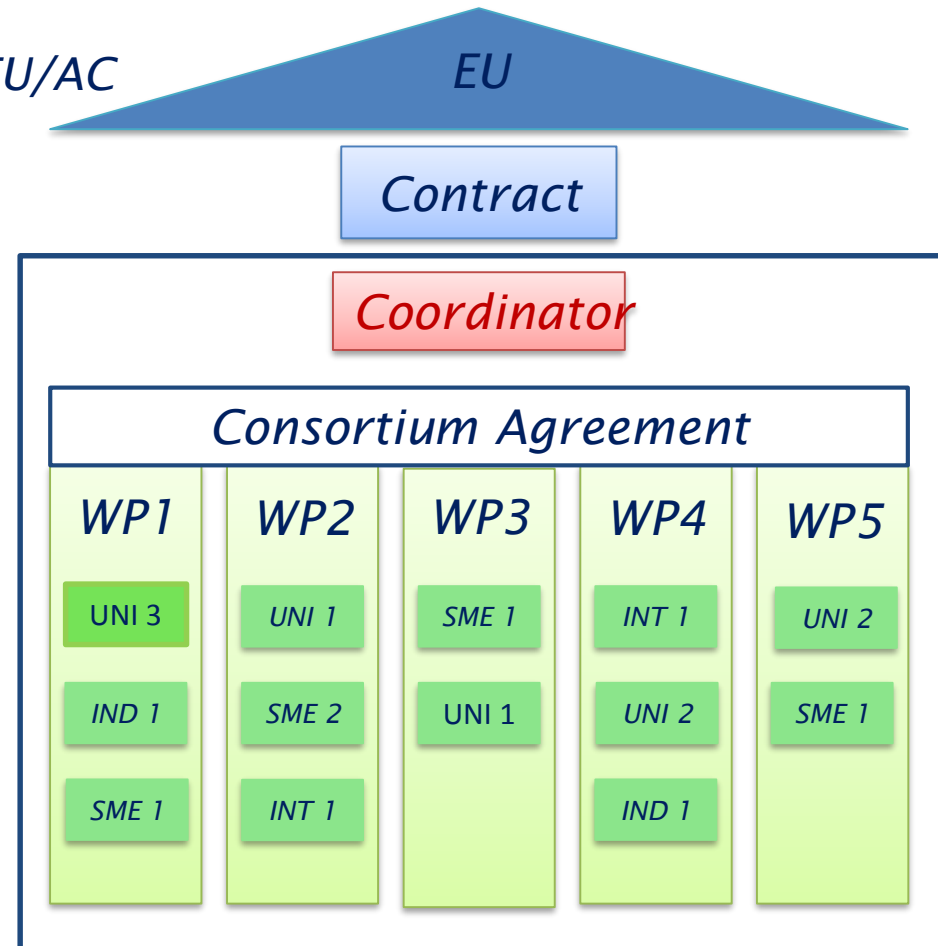
-> **collaborative research projects** *closer to the market (prototyping, testing, demonstrating, piloting, ...).*

3) Coordination and Support action (CSA: 100% funding)


Minimum 1 legal entity required, typical duration 12-20 months

Scope: standardization, dissemination, policy dialogues, networking activities, etc. No research.

- . At least 3 legal entities from different EU/AC
- . 1 coordinating organization
- . Academia, industries, SMEs, NGOs, etc.
- . European diversity
- . Gender aspects
- . Integration of SSH
- . Ethics (personal data, dual use, etc.)
- . IPR, dissemination, exploitation
- . Management



How to find research topics



RESEARCH & INNOVATION

Participant Portal

European Commission > Research & Innovation > Participant Portal > Calls

HOME **FUNDING OPPORTUNITIES** HOW TO PARTICIPATE PROJECTS & RESULTS EXPERTS SUPPORT

LOGIN REGISTER

EU Programmes 2014-2020

Search Topics

Updates

Calls

H2020

3rd Health Programme

Asylum, Migration and Integration Fund

Consumer Programme

COSME

European Statistics Programme

Hercule III Programme

Internal Security Fund - Borders

Internal Security Fund - Police

2 Results

Keyword Search: immunology

SEARCH

If you don't find your topic, you can also use the [free text search](#).

Select the Programme

Hold the 'CTRL' key to select several programmes.

H2020

STATUS

☒ Forthcoming ☒ Open ☐ Closed

SORT BY

☐ (Planned) opening date ☐ Deadline ☐ Topic title ☒ Topic identifier

Topic: **IMI2-2017-13-02: Genome-Environment Interactions in Inflammatory Skin Disease**

Open

Publication date: 30 November 2017

Types of action: IMI2-RIA Research and Innovation action

DeadlineModel: two-stage

Opening date: 30 November 2017

Deadline: 28 February 2018 17:00:00

2nd stage Deadline: 06 September 2018 17:00:00

Time Zone : (Brussels time)

Participant Portal

How to find partners

Name of the platform	Icon	Lin k	Details
Embedded Participant Portal Partner Search		http://ec.europa.eu/research/participants/portal/desktop/en/organisations/partner_search.html	Partner Search (Find and contact entities who have been involved in EU projects before)
H2020 Dashboard		http://ec.europa.eu/research/participants/portal/desktop/en/projectresults/index.html	Statistics on H2020 proposals, success rates, funded projects and participants.
Enterprise Europe Network		www.swisseen.ch/database	Cooperation for Innovation & Technology Enterprise Europe Network - Switzerland
Partnering events by HNN2.0 and EEN		http://www.healthncp.net/ https://www.swisseen.ch/en/events	Partnering events
ECRIN (European Clinical Research Infrastructure Network)		www.ecriin.org	Preferred partner for clinical trials
Ideal-IST		http://www.ideal-ist.eu/partner-search/pssearch	Worldwide ICT Support Network

Evaluation of H2020 proposals (pillar 3)

3 evaluation criteria

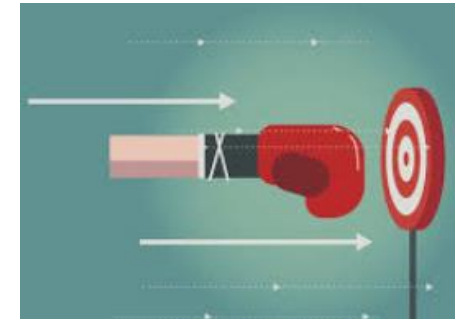
Excellence

- *Complete description of the state-of-the-art*
- *Clear demonstration of innovation*
- *Interdisciplinarity*



Impact

- *Must answer each impact point mentioned in the workprogramme*
- *New market opportunities*
- *Strengthening of competitiveness and growth of companies*
- *Important benefits for society*
- *Dissemination of results*
- *Communication*



Implementation

- *Quality and effectiveness of the work plan*
- *Appropriateness of the management structures*
- *Risk and innovation management*
- *Complementarity of the partners*
- *Appropriateness of the allocation of tasks*



More information?

HEALTH

- . [2018-2020 Workprogramme](#)
- . [Health detailed topic preview](#)
- . *Health newcomers guide (the first 10 steps)*
- . [Clinical studies](#)

MSCA (factsheets)

- . [European Fellowships](#) (EF)
- . [Global Fellowships](#) (GF)
- . *Innovative Training Networks (ITN): [European Training Networks](#)*
- . [RISE](#)

ERC

- . [Self-assessment checklist](#) (StG / CoG)
- . [BREXIT](#)

Contacts

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Thank you!