EU Research Funding

Horizon 2020

PMU, February 1, 2018

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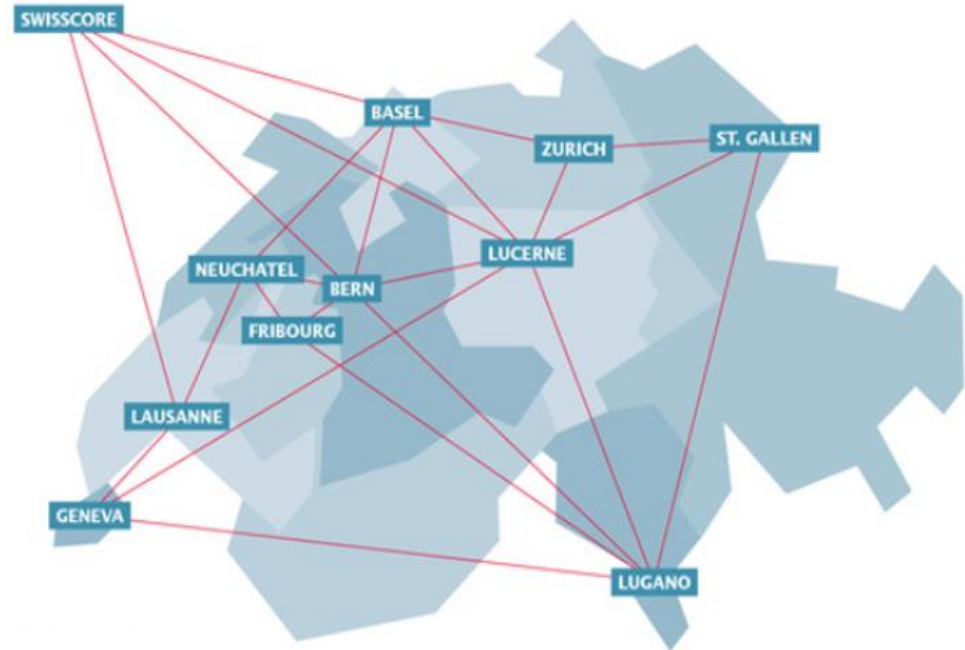
Swiss network funded by the State Secretariat for Education, Research and Innovation (SERI) to provide targeted information, hands-on advice and transnational partnering related to European R&I programmes.

Euresearch services

WE INFORM

- EURESEARCH NEWSLETTER
- E-ALERTS
- PROGRAMME FACTSHEETS
- TOPIC PREVIEW
- UPDATES VIA SOCIAL MEDIA
- BASIC INFORMATION AND TRAINING ON EUROPEAN RDI OPPORTUNITIES

WE ADVISE

- OPPORTUNITY ADVICE
- PROPOSAL PREPARATION
- PROJECT CONTRACT SUPPORT
- PROJECT MANAGEMENT SUPPORT
- INNOVATION & RESULT EXPLOITATION

WE CONNECT

- PARTNER SEARCH SUPPORT
- PARTNERING EVENTS

EURESEARCH EVENTS

- INITIAL INFO AND TRAINING ON EUROPEAN RDI OPPORTUNITIES FOR SMEs
- CALL–RELATED INFO EVENTS
- CALL–RELATED APPLICANT TRAINING
- TRAINING ON SPECIFIC SKILLS
- LEGAL AND FINANCIAL TRAINING
- PARTNERING EVENTS

Profile yourself 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**

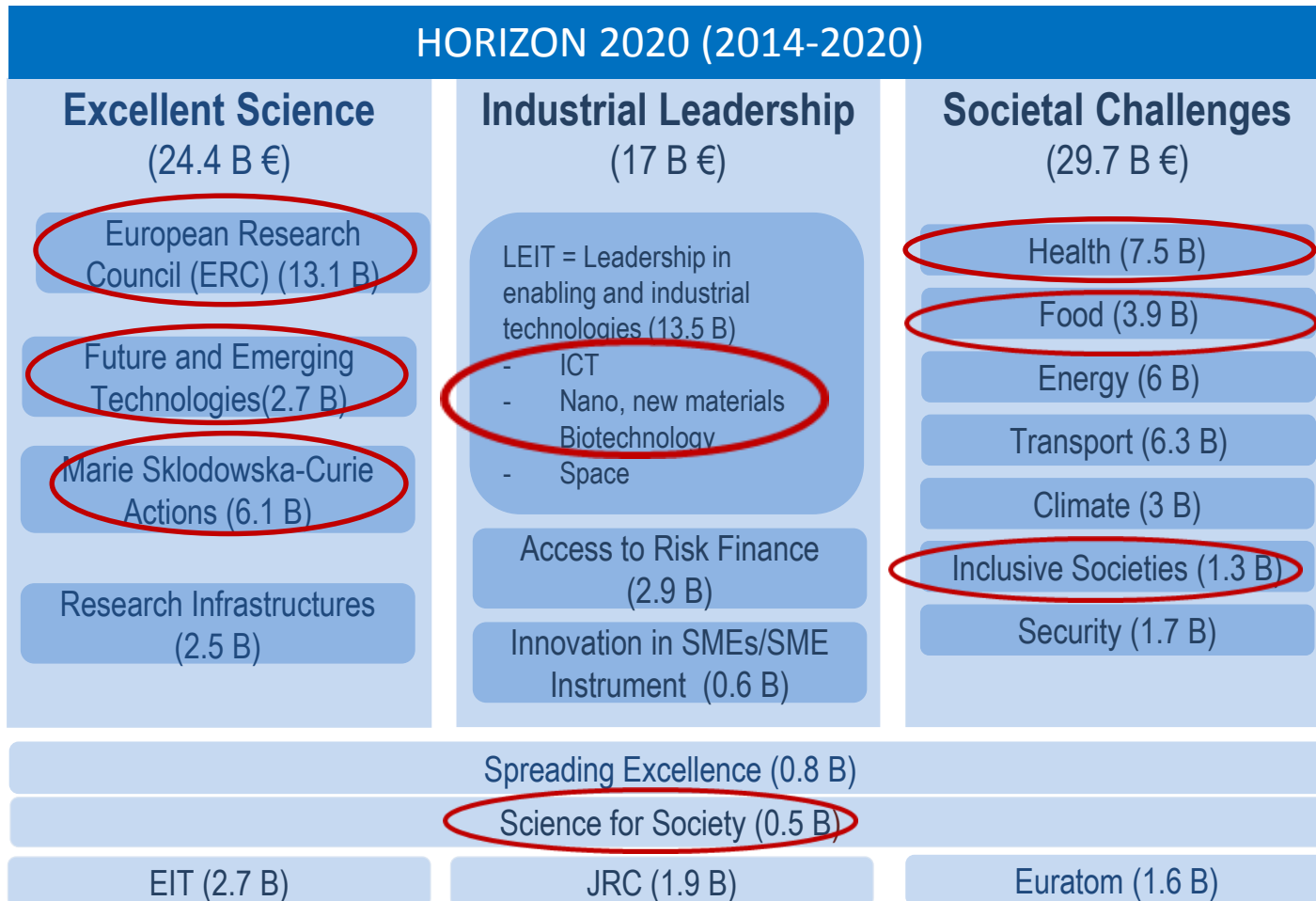**http://ec.europa.eu/research/horizon2020**

Why participate?

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

. A new boost for jobs, growth & investment

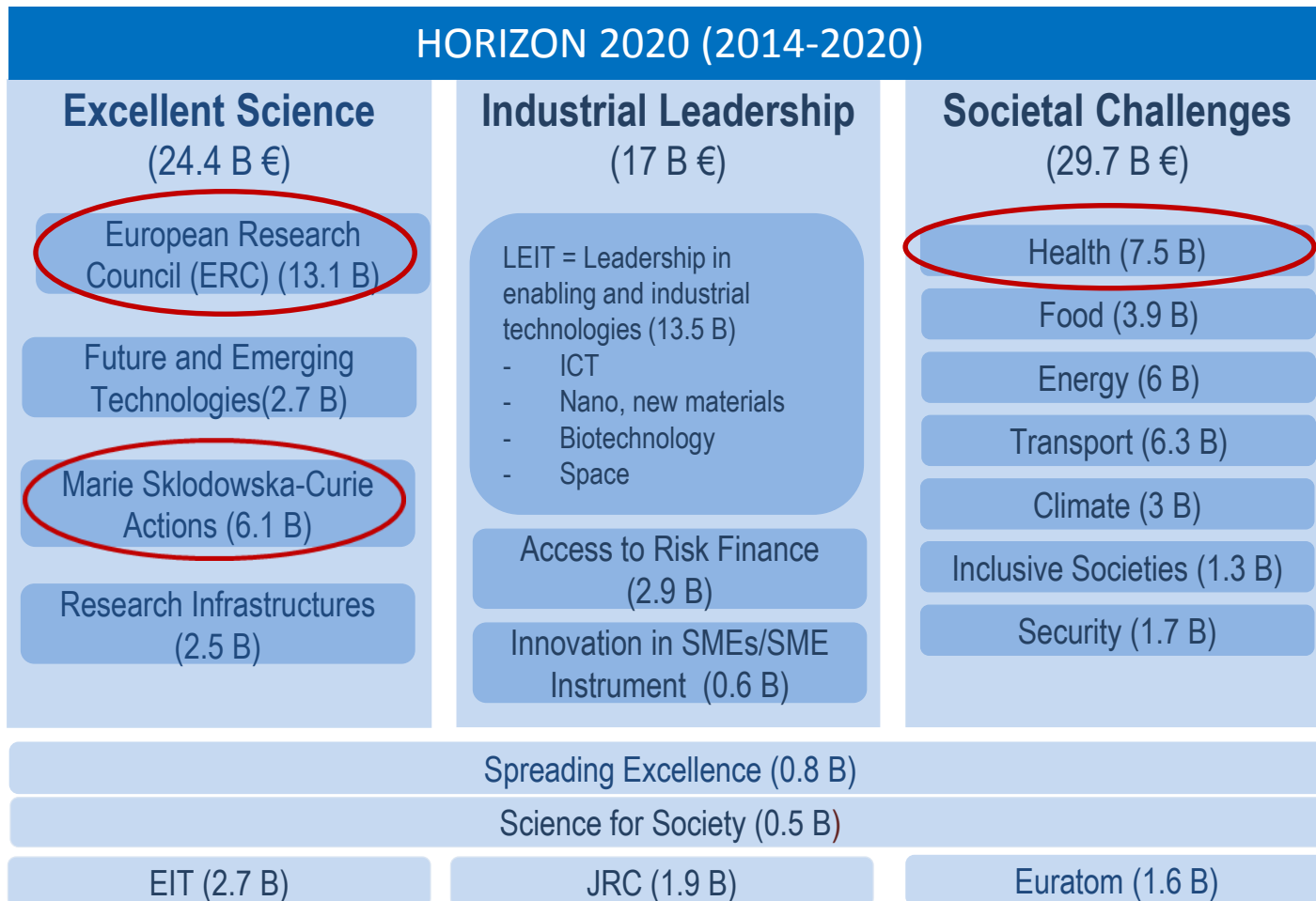*. A connected Digital Single Market*

. EU as a stronger global actor

Health Research in Horizon 2020

Where to find opportunities?

EURESEARCH
Swiss guide to European research & innovation

HORIZON 2020 (2014-2020)

Excellent Science (24.4 B €)

- European Research Council (ERC) (13.1 B)
- Future and Emerging Technologies (2.7 B)
- Marie Sklodowska-Curie Actions (6.1 B)
- Research Infrastructures (2.5 B)

Industrial Leadership (17 B €)

- LEIT = Leadership in enabling and industrial technologies (13.5 B)
  - ICT
  - Nano, new materials Biotechnology
  - Space
- Access to Risk Finance (2.9 B)
- Innovation in SMEs/SME Instrument (0.6 B)

Societal Challenges (29.7 B €)

- Health (7.5 B)
- Food (3.9 B)
- Energy (6 B)
- Transport (6.3 B)
- Climate (3 B)
- Inclusive Societies (1.3 B)
- Security (1.7 B)

Spreading Excellence (0.8 B)

Science for Society (0.5 B)

| EIT (2.7 B) | JRC (1.9 B) | Euratom (1.6 B) |

Full association of Switzerland to H2020 as of 1st January 2017
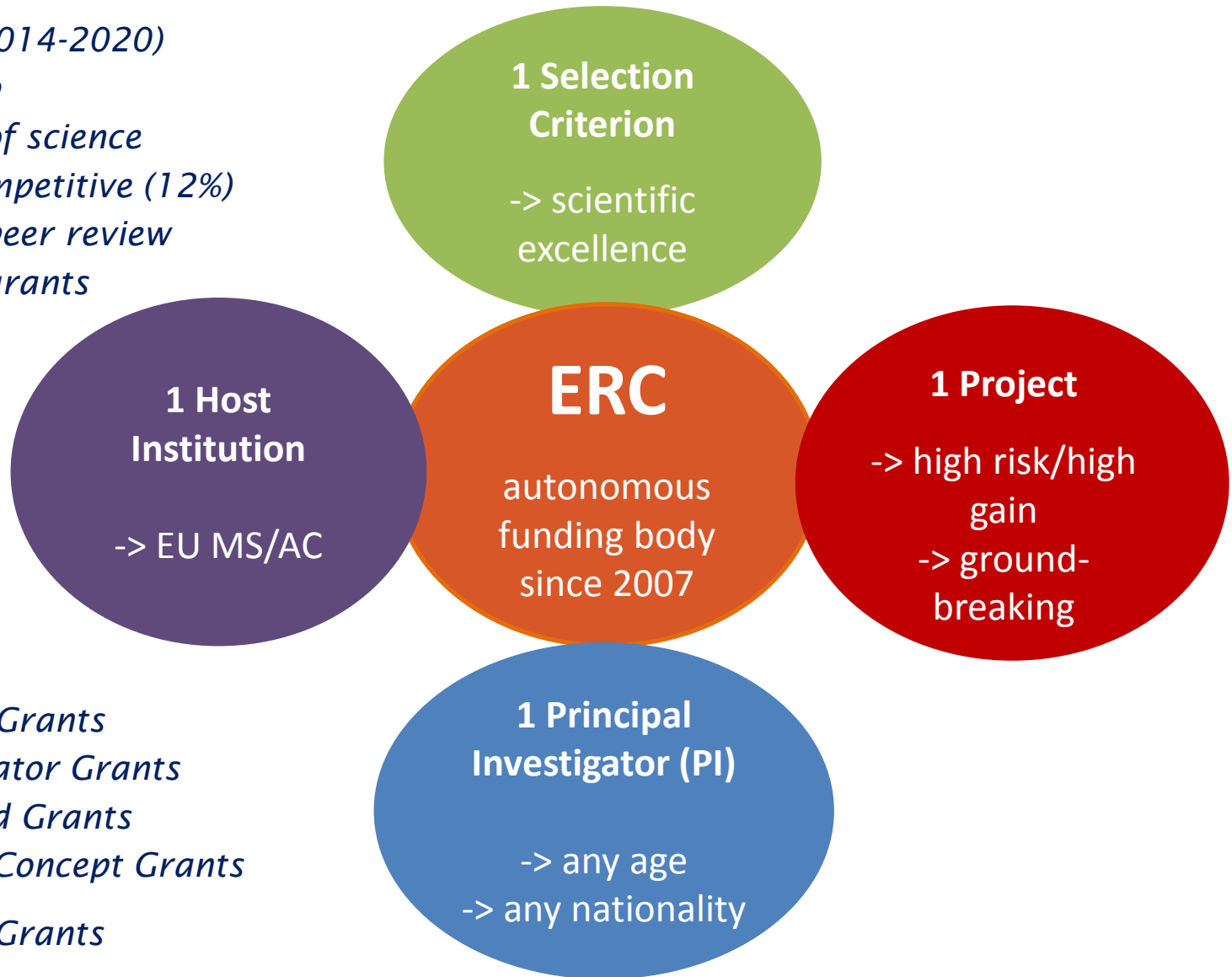
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European Research Council
(ERC)

ERC in a nutshell

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

1 Selection Criterion

-> scientific excellence

1 Host Institution

-> EU MS/AC

ERC

autonomous funding body since 2007

1 Project

-> high risk/high gain
-> ground-breaking

1 Principal Investigator (PI)

-> any age
-> any nationality

➢ *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)

Marie Skłodowska-Curie Actions

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

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
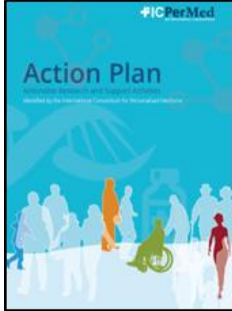
1. **Personalised medicine**

2. **Innovative health and care industry**

3. **Infectious diseases and improving global health**
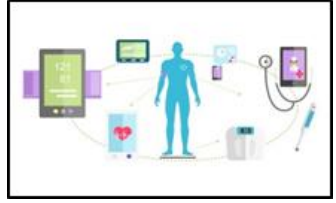
4. **Innovative health, and care systems - Integration of care**

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**

Credit: EC DG RTD

1. PERSONALISED MEDICINE

- *Understanding diseases & disorders*

- *Prevention of diseases*

- *Improved diagnosis*

- *New therapies, combinatorial therapies*

- *Human data storage*

- *Personalised medicine*

POLICY DRIVERS:

CouncilconclusionsonPersonalisedMedicine

InternationalConsortiumonPersonalisedMedicine

European Reference Network

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

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

SC1-BHC-14-2019:
Stratified host-directed approaches to improve prevention, treatment and/or cure of infectious diseases (two-stage)
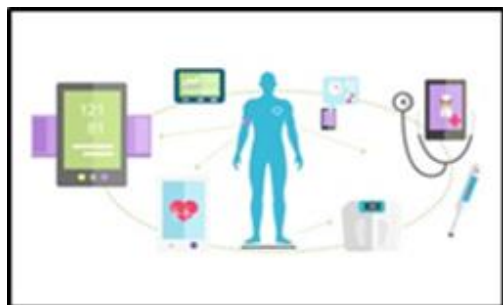
Deadline: 2 October 2018 (1st stage)
16 April 2019 (2nd stage)
EU contribution: 6-10 M€

- Increased Europe's capacity to control infectious diseases

- New product development with potentially more effective, targeted treatments OR preventive measures

- Uptake into clinical practice

- *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

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*

EURESEARCH
Swiss guide to European research & innovation

- *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

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:

Connected Digital
Single Market

#EUdataFF

Silver Economy initiative

European Cloud Initiative

European Free Flow of Data initiative

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

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***.*

Consortia

. 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

EU

Contract

Coordinator

Consortium Agreement

WP1	WP2	WP3	WP4	WP5
UNI 3	UNI 1	SME 1	INT 1	UNI 2
IND 1	SME 2	UNI 1	UNI 2	SME 1
SME 1	INT 1		IND 1	
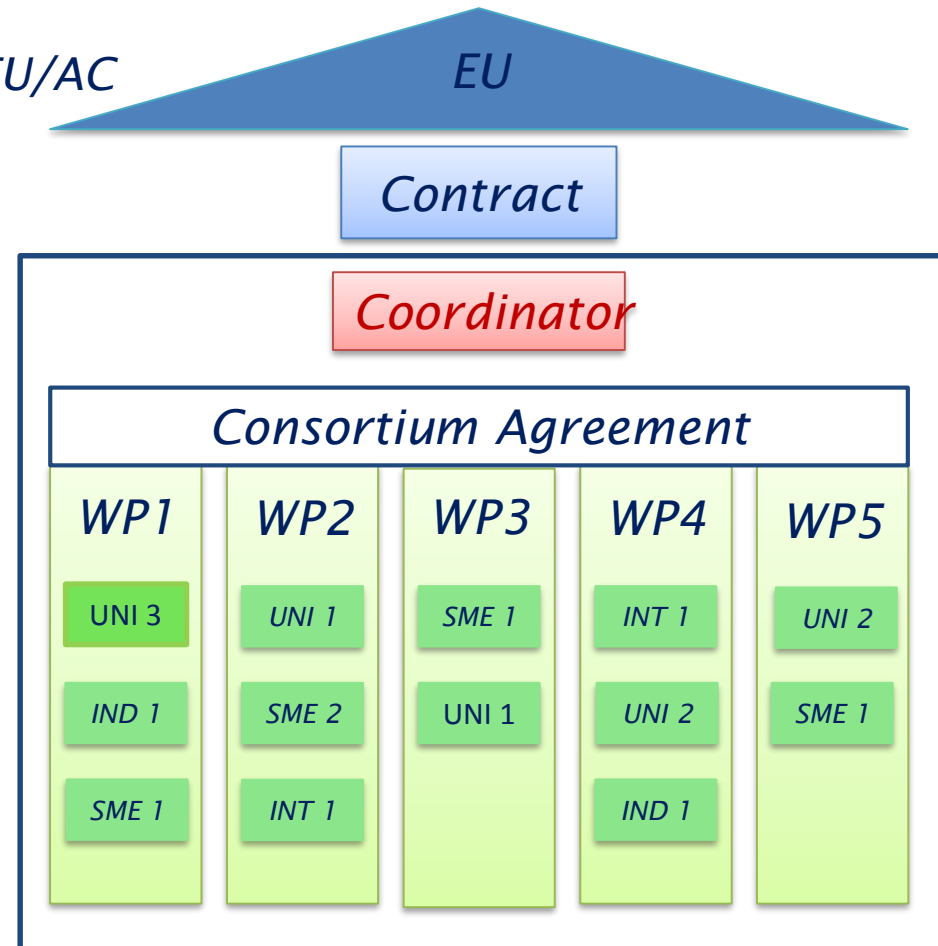
How to find research topics

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	enterprise europe network	www.swisseen.ch/database	*Cooperation for Innovation & Technology Enterprise Europe Network - Switzerland*
Partnering events by HNN2.0 and EEN	HNN 2.0 HEALTH-NCP-NET	http://www.healthncp.net/ https://www.swisseen.ch/en/events	*Partnering events*
ECRIN (European Clinical Research Infrastructure Network)	ECRIN EUROPEAN CLINICAL RESEARCH INFRASTRUCTURE NETWORK	www.ecrin.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*
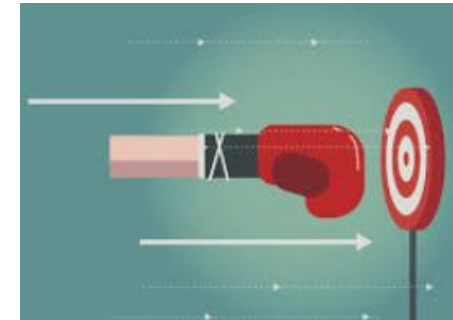
Implementation

- *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*

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Thank you!