

# SC1 Health, demographic change and well-being

Brussel, 4 december 2017

Lieve Apers

# Horizon 2020 – what comes now

- First triennial Work Programme: WP 2018-2020
- The largest budget/year in the history of the EU Framework Programmes – ca. € 700 million/year
- Topics for 2020 in more detail will be published in mid-2018

[Health, demographic change and well-being](#)

# Health Research in Horizon 2020



# Health collaborative research

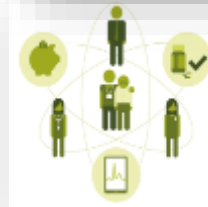
## 7 priorities for 2019-2020



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



Improving global health



Trusted Big Data solutions and Cybersecurity for Health and Care

# 7 priorities implemented via SC1 WP 2018–2020 through 3 Calls for proposals

Call 'Better Health and care, economic growth and sustainable health systems'  
5 main priorities & 32 topics

Call 'Digital transformation in Health and Care'  
13 topics

Call 'Trusted digital solutions and Cybersecurity in Health and Care'  
3 topics

Other Actions 2018–2019  
7 items

approx.  
€ 2 billion

# Priority 1 – Personalised medicine

- Personalised health and care solutions
- Improved health outcomes
- Chronic, rare and communicable diseases, including children, the ageing population and high-risk groups
- Understanding of the economic impact and the potential of personalised medicine to transform health systems

IMPACT: Improved health outcomes for the citizens

POLICY DRIVERS + SUPPORT FOR:

[Council conclusions on Personalised Medicine](#)  
[International Consortium on Personalised Medicine](#)  
[European Reference Networks](#)



# Personalised Medicine (I)

- [BHC-03-2018](#): Exploiting research outcomes and application potential of the human microbiome for personalised prediction, prevention and treatment of disease
- [BHC-04-2018](#): Rare Disease European Joint Programme Cofund
- [BHC-05-2018](#): International flagship collaboration with Canada for human data storage, integration and sharing to enable personalised medicine approaches
- BHC-01-2019: Understanding causative mechanisms in co- and multimorbidities
- BHC-02-2019: Systems approaches for the discovery of combinatorial therapies for complex disorders

# Personalised Medicine (II)

## Coordination and support actions

- [HCO-02-2018:](#) Data integration and data-driven in-silico models for enabling personalised medicine - a European standardization framework
- [HCO-04-2018:](#) ERA-NET to support the Joint Programming in Neurodegenerative Diseases strategic plan (JPND)
- [HCO-01-2018-2019-2020:](#) Actions in support of the International Consortium for Personalised Medicine



# Priority 2 – Innovative health and care industry

- Turning innovative knowledge and technologies into practical applications benefiting citizens, healthcare systems and businesses
- Innovative diagnostics and therapeutics, including advanced therapies
- Clear exploitation potential and socioeconomic benefits for patients and sustainable health systems
- Complementarity with the SME instrument, the Fast Track to Innovation and the Innovative Medicines Initiative (IMI).

IMPACT: To stimulate the healthcare industry

POLICY DRIVERS + SUPPORT FOR:

[Upgrading the single market](#)



# Innovative health and care industry

- [BHC-09-2018](#): Innovation platforms for advanced therapies of the future
- BHC-07-2019: Regenerative medicine: from new insights to new applications
- BHC-10-2019: Innovation Procurement: Next generation sequencing (NGS) for routine diagnosis

Coordination and support actions

- [HCO-05-2018](#): Strengthening regulatory sciences and supporting regulatory scientific advice

# Priority 3 – Infectious diseases and improving global health

- Infectious diseases and the health of vulnerable groups
- 'One Health' approach
- Antimicrobial resistance, emerging and re-emerging infectious diseases and poverty-related and neglected diseases
- Maternal and new born health, global collaboration on non-communicable diseases and on brain research

IMPACT: To prevent, detect and treat of priority diseases worldwide

POLICY DRIVERS + SUPPORT FOR:

**GL**  **PID-R**

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



[European One Health  
Action Plan against  
Antimicrobial  
Resistance](#)



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



[Global Action Plan on  
antimicrobial resistance](#)



[Global Alliance for  
Chronic Diseases](#)

**NCP Flanders**

**fwo** **Fonds Wetenschappelijk Onderzoek  
Vlaanderen**  
Opening new horizons

**AGENTSCHAP  
INNOVEREN &  
ONDERNEMEN**  **Vlaanderen  
is ondernemen**

# Infectious diseases and improving global health (I)

- [BHC-15-2018: New anti-infective agents for prevention and/or treatment of neglected infectious diseases \(NID\)](#)
- [BHC-16-2018: Global Alliance for Chronic Diseases \(GACD\) - Scaling-up of evidence-based health interventions at population level for the prevention and management of hypertension and/or diabetes](#)
- [BHC-18-2018: Translational collaborative cancer research between Europe and the Community of Latin American and Caribbean States \(CELAC\)](#)
- [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](#)

# Infectious diseases and improving global health (II)

- BHC-13-2019: Mining big data for early detection of infectious disease threats driven by climate change and other factors
- BHC-14-2019: Stratified host-directed approaches to improve prevention, treatment and/or cure of infectious diseases
- BHC-19-2019: Implementation research for maternal and child health

# Infectious diseases and improving global health (III)

Coordination and support actions

- [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
- [HCO-08-2018](#): Creation of a European wide sustainable clinical research network for infectious diseases
- [HCO-09-2018](#): Building international efforts on population and patient cohorts
- [HCO-10-2018](#): Coordinating European brain research and developing global initiatives
- [HCO-11-2018](#): Strategic collaboration in health research and innovation between EU and China

# Priority 4 – Innovative health and care systems – Integration of care

- Personalised medicine, management of chronic diseases and health promotion
- Effective, accessible and sustainable health interventions and integrated care systems
- Development of Health technology assessment methods
- Development of sustainable and resilient health systems

IMPACT: better evidence for the development of more sustainable and resilient health systems, resulting in increased access to quality care for everyone and better health promotion.

POLICY DRIVERS + SUPPORT FOR:

[Upgrading the single market](#)



[Cross-border healthcare Directive](#)



# Innovative health and care systems

## Integration of care

- [BHC-23-2018](#): Novel patient-centred approaches for survivorship, palliation and/or end-of-life care
- [BHC-26-2018](#): HTA research to support evidence-based healthcare
- BHC-22-2019: Mental health in the workplace
- BHC-25-2019: Demonstration pilots for implementation of personalised medicine in healthcare

Coordination and support actions

- [HCO-12-2018](#): Innovation in healthcare – a CSA towards using pre-commercial procurement and public procurement of innovative solutions in healthcare systems



# Priority 5 – Decoding the role of the environment, including climate change, for health and well-being

- Assessment of the impact of environment on health and well-being, and the related socio-economic impacts
- New testing and screening methods to identify endocrine disrupting chemicals
- The 'human exposome'
- European environment and health research agenda for the future

IMPACT: Improved risk assessment and mitigation measures

POLICY DRIVERS + SUPPORT FOR:



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



[Sustainable Development Goals](#)



[The UNFCCC Paris Agreement](#)



[World Health Organization](#)  
REGIONAL OFFICE FOR Europe

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



# Decoding the role of the environment, including climate change, for health and well-being

- [BHC-27-2018](#): New testing and screening methods to identify endocrine disrupting chemicals
- BHC-28-2019: The Human Exposome Project: a toolbox for assessing and addressing the impact of environment on health

Coordination and support actions

- [HCO-13-2018](#): Setting the priorities for a European environment, climate and health research agenda

# Priority 6 – Digital transformation in Health and

## Care

Enable 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 Health Ageing

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

POLICY DRIVERS + SUPPORT FOR:



[Connected Digital Single Market](#)



[European Cloud Initiative](#)



[European Free Flow of Data initiative](#)



[Silver Economy initiative](#)

# Digital transformation in Health and Care (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-10-2019-2020: Digital health and care services
- DTH-11-2019: Large Scale pilots of personalised & outcome based integrated care

# Digital transformation in Health and Care (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

# Priority 7 - Trusted digital solutions and Cybersecurity in Health and Care

- 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 + SUPPORT FOR:



[Connected Digital Single Market](#)



Big Data in healthcare



[European Data Protection Regulation](#)

# Trusted digital solutions and Cybersecurity in Health and Care

- [SU-TDS-02-2018](#): Toolkit for assessing and reducing cyber risks in hospitals and care centres to protect privacy/data/infrastructures
- [SU-TDS-03-2018](#): Raising awareness and developing training schemes on cybersecurity in hospitals
- DT-TDS-01-2019: Smart and healthy living at home

# Other actions for 2018–2019

- Subscription fee: Human Frontier Science Programme Organisation
- Studies, activities of the Scientific Panel for Health, conferences, events and outreach activities
- External expertise
- Grant to the Global Alliance for Chronic Diseases
- Expert group for the impact assessment of the planned Commission communication on infectious diseases
- Subscription fee: World RePORT international health research database
- Mobilisation of research funds in case of Public Health Emergencies



# Lump Sum Pilot (SC1-BHC-15-2018)

Simplification:

- no financial reporting
- no time sheets
- no financial audit

Payment exclusively based on completion of activity

Pilot scheme to evaluate results – view to FP9

# Lump Sum Pilot: 2-stage Submission

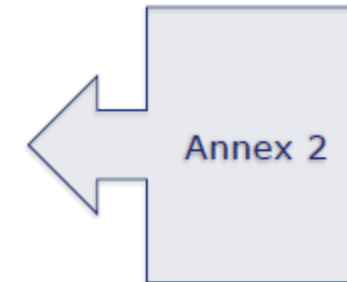
- 1st-stage:  
Open date: 07 November 2017  
Deadline: 06 February 2018  
Excellence  
Impact
- 2nd-stage:  
Open date: May 2018  
Deadline: September 2018  
+  
Quality and Efficiency of  
implementation  
Evaluation of resources/costs  
estimates

Detailed Budget Table → Estimated costs per WP

# Lump Sum Pilot

Sum of the share of the lump sum allocated to Work Packages fully completed in the reporting period

|               | WP1            | WP2            | WP3            | WP4            | WP5            |
|---------------|----------------|----------------|----------------|----------------|----------------|
| Beneficiary A | 250.000        |                |                | 50.000         | 300.000        |
| Beneficiary B |                | 250.000        | 350.000        | 50.000         |                |
| Beneficiary C | 100.000        | 100.000        |                | 50.000         |                |
| Beneficiary D |                | 120.000        |                | 50.000         |                |
| <b>Total</b>  | <b>350.000</b> | <b>470.000</b> | <b>350.000</b> | <b>200.000</b> | <b>300.000</b> |

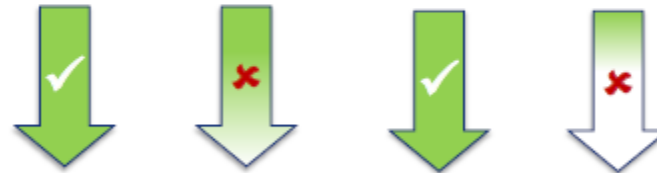


|               | WP1       | WP2           | WP3       | WP4           | WP5       |
|---------------|-----------|---------------|-----------|---------------|-----------|
| Beneficiary A | Completed |               |           | Initiated     | Initiated |
| Beneficiary B |           | Completed     | Completed | Not initiated |           |
| Beneficiary C | Completed | Not initiated |           | Not initiated |           |
| Beneficiary D |           | Completed     |           | Completed     |           |



# Lump Sum Pilot

|               | WP1            | WP2            | WP3            | WP4            | WP5            |
|---------------|----------------|----------------|----------------|----------------|----------------|
| Beneficiary A | 250.000        |                |                | 50.000         | 300.000        |
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| Beneficiary C | 100.000        | 100.000        |                | 50.000         |                |
| Beneficiary D |                | 120.000        |                | 50.000         |                |
| <b>Total</b>  | <b>350.000</b> | <b>470.000</b> | <b>350.000</b> | <b>200.000</b> | <b>300.000</b> |



$$\text{Payment} = 350\ 000 + 0 + 350\ 000 + 0 = 700\ 000\ \text{€}$$



Limited to 90 % of the total grant

# Lump Sum Pilot ex post controls

You **need**



- Technical documents
- Publications, prototypes, deliverables
- Who did what?
- ...any document proving that the work was done as detailed in Annex 1

You **don't need**



- Time-sheets
- Pay-slips or contracts
- Depreciation policy
- Travel invoices
- ....actual costs

# Partner search

E.E.N. – B2Match



Home Participants Programme Venue Matchmaking Contact Login

Filter profiles by...

12 results, 12 profiles in total

Participants Profiles

**★ Quick Find**  
Enter keywords, names, countries...  
Apply Filter Clear

**★ Organisation Type**  
 University (12)  
Apply Filter Clear

**★ Areas of Activity**

**★ Profile Type**  
 Offer (12)  
 Request (2)  
Apply Filter Clear

**★ Countries**

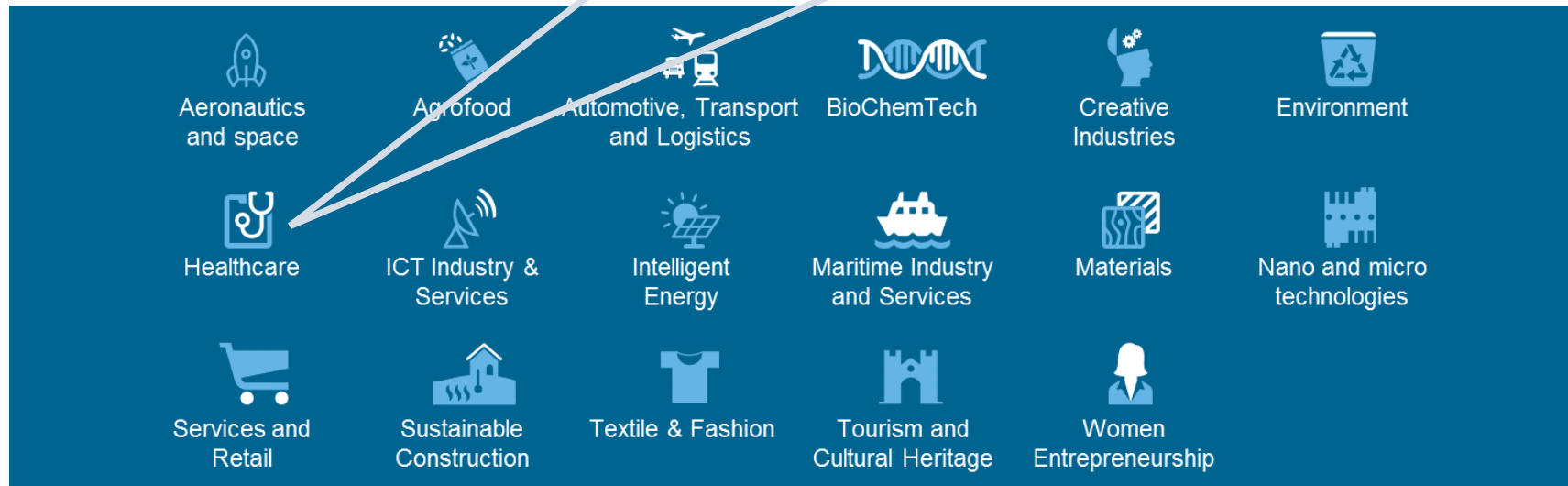
**EGAMI - Antwerp University**  
Belgium-Flanders  
Wouter Van Putte, Research & Innovation Manager (starting 01/01/2018)  
Show Profile  
offer projects related to imaging and image processing (fluorescence and electron microscopy, MRI, PET/S...

**Ghent University**  
Belgium-Flanders, Ghent  
Maaike Perneel, Business developer  
Show Profile  
Request sustainable agriculture. Developing alternatives to chemical crop protection products and fertilizers...  
offer SFS-04-2019-2020: Integrated health approaches and alternatives to pesticide use. CropFit is a resear...  
offer SFS-05-2018-2019-2020: New and emerging risks to plant health. CropFit is a research network of 35...  
offer SFS-16-2018: Towards healthier and sustainable food. CropFit is a research network of professors wit...  
offer LC-SFS-19-2018-2019: Climate-smart and resilient farming. CropFit is a research network of professor...

**Ghent University**  
Belgium-Flanders  
Siegfried Segers,  
Show Profile  
offer Energy Efficient Buildings & Renewables at consumer level. Ghent University (Belgium) - EnerGentC L...  
offer Renewable Energy at system level (Ocean & Wind & biofuels). Ghent University (Belgium) - EnerGentC...  
offer Energy Systems (grids & energy management). Ghent University (Belgium) - EnerGentC is the Interdis...  
offer Energy Efficiency in Industry & Renewables at Industry level. Ghent University (Belgium) - EnerGentC...

# Partner search

E.E.N. – 17 Sector Groups



[een.ec.europa.eu/about/sector-groups/healthcare](https://een.ec.europa.eu/about/sector-groups/healthcare)

[www.enterpriseuropevlaanderen.be](https://www.enterpriseuropevlaanderen.be)

# Participant Portal

## Partner search new features

Release in stages

Stage 1: organisation can launch a request for partners related to a call topic including details about the expertise sought or offered (December 2017)

Stage 2: individual can launch a request for partners related to a call topic including details about the expertise sought or offered (July 2018)

Stage 3: automatic matching of requests for partners with profiles (December 2018)





- My Organisation(s)
- My Proposal(s)
- My Project(s)
- My Notification(s) **6**
- My Formal Notification(s)
- My Expert Area

- EU Programmes 2014-2020
- Search Topics
  - Updates
  - calls
  - H2020
  - 3rd Health Programme
  - Asylum, Migration and Integration Fund
  - Consumer Programme
  - COSME
  - Hercule III Programme
  - Internal Security Fund - Borders
  - Internal Security Fund - Police
  - Justice Programme
  - Pilot Projects & Preparatory Actions
  - Promotion of Agricultural Products
  - Research Fund for Coal & Steel
  - Rights, Equality and Citizenship Programme
  - Union Civil Protection Mechanism

**TOPIC : Valorisation of liquid and solid side streams from bio-based operations into high added-value products to create new feedstock for bio-based products**

Topic identifier: BBI.2017.01  
 Publication date: 11 April 2017

Type of action: BBI-1A-DEMO Bio-based Industries Innovation action - Demonstration  
 DeadlineModel: single-stage  
 Opening date: 11 April 2017      **Deadline:** 07 September 2017 17:00:00  
 Time Zone : (Brussels time)

Horizon 2020 [Call budget overview](#)

**Topic Description** [+ More](#)

**Specific Challenge:**  
 Fully developed and sustainable biorefineries at an industrial scale require optimal valorisation of side streams generated during the different process steps. However, current practice is to divert these

**Topic conditions and documents** [+ More](#)

Please read carefully all provisions below before the preparation of your application.

1. **List of countries and applicable rules for funding:** described in [part A of the General Annexes](#)

**4** Organizations are looking for collaborating partners for this topic [VIEW ORGANISATIONS](#)

**Submission Service**

To access the Electronic Submission Service of the topic, please select the **type of action** that is most relevant to your proposal from the list below and click on the **'Start Submission'** button. You will then be asked to confirm your choice of the type of action and topic, as these cannot be changed in the submission system. Upon confirmation you will be linked to the correct entry point.



# RESEARCH & INNOVATION

European Commission

## Participant Portal

European Commission > Research & Innovation > Participant Portal > Active Request For Partners

MY AREA

HOME

FUNDING OPPORTUNITIES

HOW TO PARTICIPATE

EXPERTS

SUPPORT

Search



TOMASZ KAMINSKI

My Organisation(s)

My Proposal(s)

My Project(s)

My Notification(s) **6**

My Formal Notification(s)

My Expert Area

Reference Documents

Beneficiary Register

Partner Search

Financial Viability Self-Check

SME Participation

### Active requests for partners

**Topic :** Valorisation of liquid and solid side streams from bio-based operations into high added-value products to create new feedstock for bio-based products (BBI.2017.D1)



If interested in collaborating, please contact the organisation via their profile : CONTACT ORGANISATION leads you to the administrative contacts of the organisation and CONTACT PROJECT (CP) next to the project titles to the given projects experts in the organisation.

ADD

| REQUEST DATE   | ORGANISATION NAME  | ORGANISATION TYPE                           | COUNTRY   |
|--|--|---|---|
| 1 September 2017   | <a href="#">CONSIGLIO NAZIONALE DELLE RICERCHE</a>         | Research Organisation                       | Italy   |
| <b>i</b> We are looking for the specialist in bio-based products. <span style="float: right;">⌆</span> |  |   |   |
| 2 September 2017   | <a href="#">KATHOLIEKE UNIVERSITEIT LEUVEN</a>             | Higher or secondary education establishment | Belgium <span style="float: right;">⌵</span>        |
| 3 September 2017   | <a href="#">EUROPEAN ORGANIZATION FOR NUCLEAR RESEARCH</a> | International Organisation                  | Switzerland <span style="float: right;">⌵</span>    |
| 4 September 2017   | <a href="#">FENIX TNT SRO</a>                              | Small or medium-size enterprise             | Czech Republic <span style="float: right;">⌵</span> |

# International cooperation in Health

Main features of SC1 WP 2018-2020

- General opening: all topics open to international cooperation!
- Topics targeting specific countries or regions, e.g.: CELAC, Russian Federation, Canada
- Specific strategic initiatives to address challenges at European or global level

# International cooperation in Health

## General opening

- All SC1 topics are open to international cooperation: Always remind!
- EC contribution: 28 MS, 16 AC and 124 Third countries (General Annexes A.) + USA
- For some other TC: co-funding mechanism (CFM)
- Australia, Brazil, Canada, China, Hong Kong & Macau, India, Japan, Republic of Korea, Mexico, Russia, Taiwan

# International cooperation in Health

Topics with mandatory participation of third Countries

- Lower overall participation of TC in WPs 2014-2016 if compared to FP7
- Need to get higher and more visible participation of TC in the last WP
- Stimulate cooperation on targeted areas that represent a burden for EU and TC (e.g. cancer for CELAC)
- Give a politically visible 'sign' of cooperation (science diplomacy)

# International cooperation in Health

Canada: SC1-BHC-05-2018

CELAC and China: SC1-HCO-01-2018-2019-2020

- International flagship collaboration with Canada for human data storage, integration and sharing to enable personalised medicine approaches
  - Topic elaborated with the Canadian Institutes of Health Research
  - At least one Canadian participant (to be co-funded by CIHR)
  - RIA of € 4-6 million
- Actions in support of the International Consortium for Personalised Medicine
  - Topic aimed at building links with third countries on collaboration in personalised medicine
  - At least one CELAC in 2018 and at least one Chinese participant in 2019 (EU funding or country co-funding according to general rules)
  - CSA of € 1,5-2 million

# International cooperation in Health

Disease endemic countries: SC1-BHC-15-2018

- New anti-infective agents for prevention and/or treatment of neglected infectious diseases (NID)
- The nature of the topic implies the participation of disease endemic countries
- At least one disease endemic country
- EU funding or country co-funding according to general rules
- RIA of € 5-10 million
- **NB: lump sum funding pilot scheme!**

CELAC: SC1-BHC-18-2018

- Translational collaborative cancer research between Europe and the Community of Latin American and Caribbean States (CELAC)
- Discussion with CELAC representatives: some of the topics discussed within EU-LAC Health (FP7 CSA) used as input
- At least 2 different CELAC countries
- EU funding or country co-funding according to general rules
- RIA of € 2-4 million

# International cooperation in Health

Russian Federation: 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
- Co-developed with the Ministry of Education and Science of the Russian Federation
- At least one participant from Russian Federation (to be co-funded by Russia)
- RIA of € 2-3 million

International participation, in particular US, Canada, Japan, South Korea, China: SC1-HCC-03

- Support to further development of international cooperation in digital transformation of health and care
- At least one third country (i.e. non-MS, non-AC) participant, in particular US, Canada, Japan, South Korea, China
- EU-funding or country co-funding according to general rules
- CSA of up to € 2 million



# International cooperation in Health

Topics with potential participation of third countries

- SC1-BHC-16-2018: Global Alliance for Chronic Diseases (GACD) - Scaling-up of evidence-based health interventions at population level for the prevention and management of hypertension and/or diabetes
- SC1-HCO-11-2018: Strategic collaboration in health research and innovation between EU and China
- 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
- SC1-HCO-09-2018: Building international efforts on population and patient cohorts
- SC1-HCO-10-2018: Coordinating European brain research and developing global initiatives

# International cooperation in Health - Multi-lateral health research activities





# Contact

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