This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 826092.

IDIH WEEK 2021
Info Day

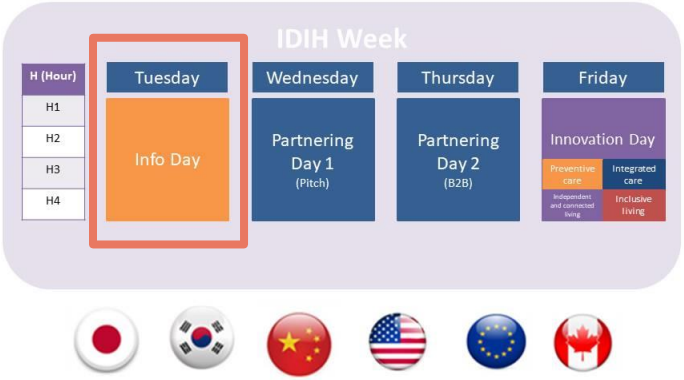
June 1, 2021

online

Join at:
https://agenziapromozionericercaeuropea.webex.com/agenziapromozionericercaeuropea/onstage/g.php?MTID=e82afd24fe8f8251a9c4d47e3ddae50b4

Agenda 1/2

Please consider Central European Summer Time (CEST)

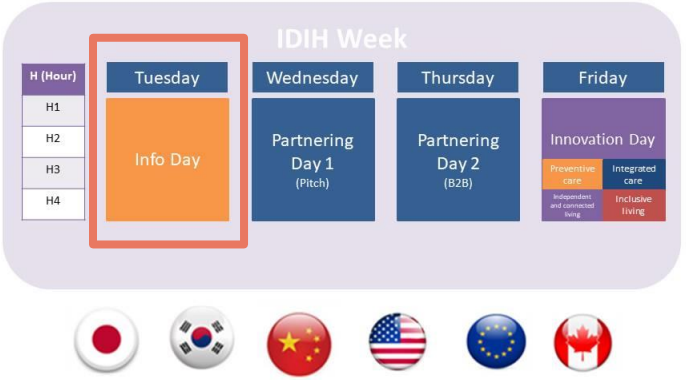


12.00 – 12.15	Registration and welcome
12.15 – 12.30	Introduction to the IDIH Week and the IDIH project IDIH Team (Hicham Abghay, IDIH Coordinator, Senior Project Manager, Steinbeis 2i GmbH & Martina De Sole, Head of International Cooperation, APRE)
12.30 – 12.45	Digital Health & AHA*. Presentation of the *IDIH Guidebooks* on funding opportunities supporting international cooperation IDIH Team (Mathilde De Bonis, Project Manager, APRE)
12.45 – 13.00	Futurium. A new EU platform to support Active and Healthy Living in the Digital World Irina Kalderon Libal, Policy Officer, Directorate-General Communications Networks, Content and Technology, European Commission
13.00 – 13.30	EU Policies and Programmes supporting international cooperation for Digital Health & AHA IDIH Team (Martina De Sole, Head of International Cooperation & Mathilde De Bonis, Project Manager, APRE)
13.30 – 13.45	**Break**

**Active and Healthy Ageing*

Agenda 2/2

Please consider Central European Summer Time (CEST)



13.45 – 14.00	China. Policies and Programmes supporting international cooperation for Digital Health & AHA Dr. Jie Wang, Vice President, Smart Health Care and Home Care Branch of China Association of Gerontology and Geriatrics (S2HC-CAGG)
14.00 – 14.15	Japan. Policies and Programmes supporting international cooperation for Digital Health & AHA IDIH Team (Sakon Yamamoto, CEO, SAWARABI GROUP)
14.15 – 14.30	South Korea. Policies and Programmes supporting international cooperation for Digital Health & AHA IDIH Team (Mathilde De Bonis, Project Manager, APRE)
14.30 – 15.00	Canada. Policies and Programmes supporting international cooperation for Digital Health & AHA IDIH Team (Martina De Sole, Head of International Cooperation, APRE)
15.00 – 15.30	USA. Policies and Programmes supporting international cooperation for Digital Health & AHA IDIH Team (Matthew Holt, General Manager, Catalyst)
15.30 – 15.45	The international policy dialogue on Digital Health for AHA* started with IDIH IDIH Team (Martina De Sole, Head of International Cooperation, APRE)
15.45 – 16.00	Closing remarks

**Active and Healthy Ageing*

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IDIH WEEK 2021
Introduction to the IDIH Week and the IDIH project

Hicham Abghay

Senior Project Manager & Coordinator IDIH Project,
Steinbeis 2i GmbH

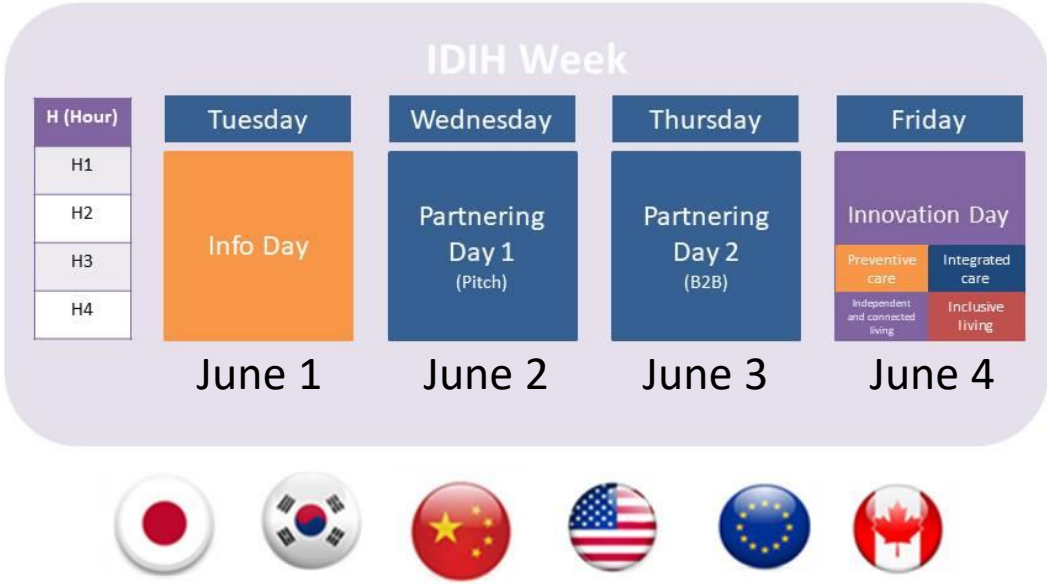
IDIH

INTERNATIONAL COLLABORATION
DIGITAL TRANSFORMATION
HEALTHY AGEING

IDIH WEEK 2021

A **4 days online event** dedicated to researchers, innovators, care providers and users associations dealing with **Digital Health for Active and Healthy Ageing (AHA).**

Information, Networking&Matchmaking, and Co-creation sessions among all the key-stakeholders of digital solutions for AHA in Europe, Canada, China, Japan, South Korea and USA.



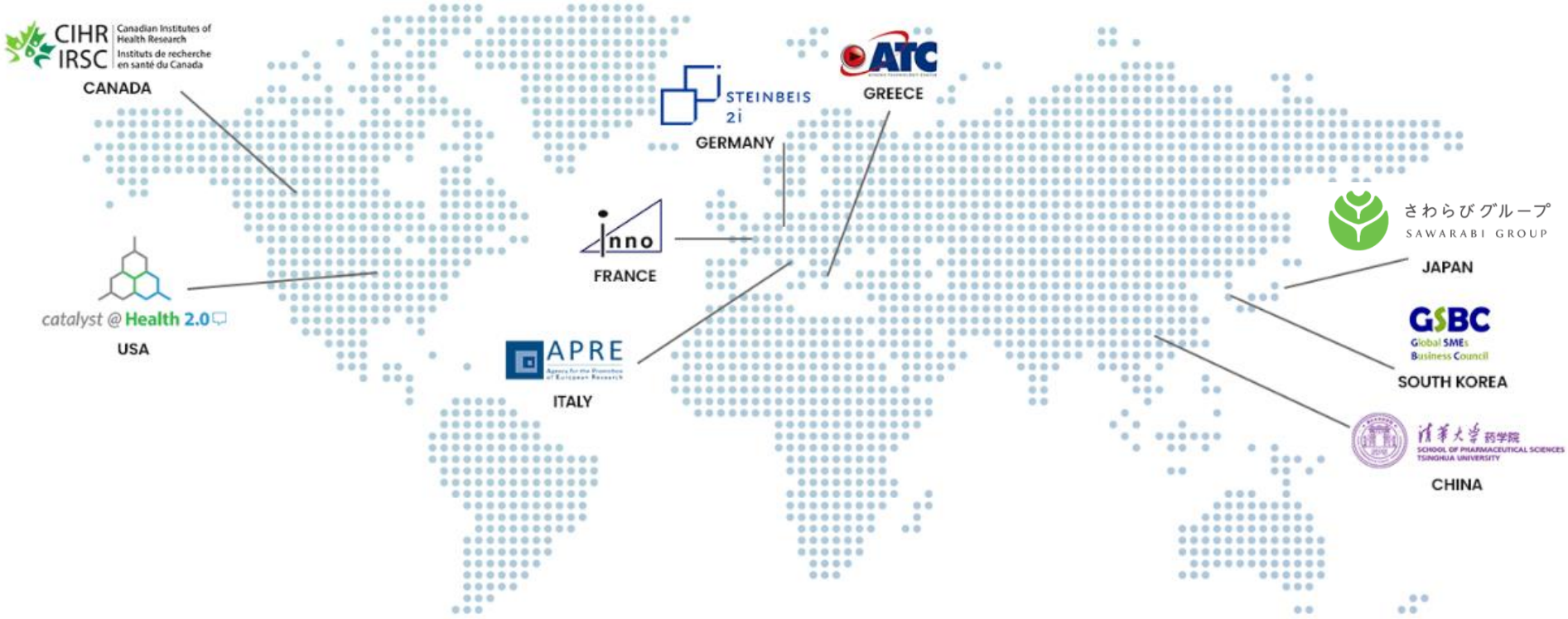
IDIH Short Fact Sheet

- **Full Title:** International Digital Health Cooperation for Preventive, Integrated, Independent and Inclusive Living
- **Start Date:** 1st May 2019
- **Aim:** **Promote and increase international collaboration** to **advance digital health** in the EU and key Strategic Partner Countries to **support active and healthy ageing (AHA) through innovation**

9	4	5	36	2.4
Partners	EU Countries	Strategic Partner Countries	months (May 2019 - April 2022)	million € (including partners' own contribution)

Project Partners

9 partners – 4 from the EU and 5 from the Strategic Partner Countries:
From research to industry through to governmental support organisations and networking platforms



Background

The **population is rapidly ageing** in industrialised and emerging economies. Health risks need prevention, treatment of health issues needs assistance, as well as access to innovations not only for the elderly but also for other patient groups.

Health systems around the world should learn from each other. Sharing experiences, innovative approaches and best practices will be key to accelerating the progress of individual regions.

Joint efforts and mutual learning for the benefit of the society and industry on a global level is vital.

IDIH Aim

Supporting the further development of international cooperation in the digital transformation of health care for Active and Healthy Ageing (AHA)

- IDIH will operate as a catalyst for the international dialogue in digital health for AHA.
- By **identifying key opportunities and shared priorities** for global cooperation in digital health, IDIH will set up a **Digital Health Transformation [for AHA] Forum** to foster collaboration between the EU and five Strategic Partner Countries.

Four Targeted Objectives

1

To support the **definition of common priorities** to enhance strategic international cooperation in digital health.

2

To provide specific contributions to the **international dialogue in digital health** with the creation of a **Digital Health Transformation Forum**.

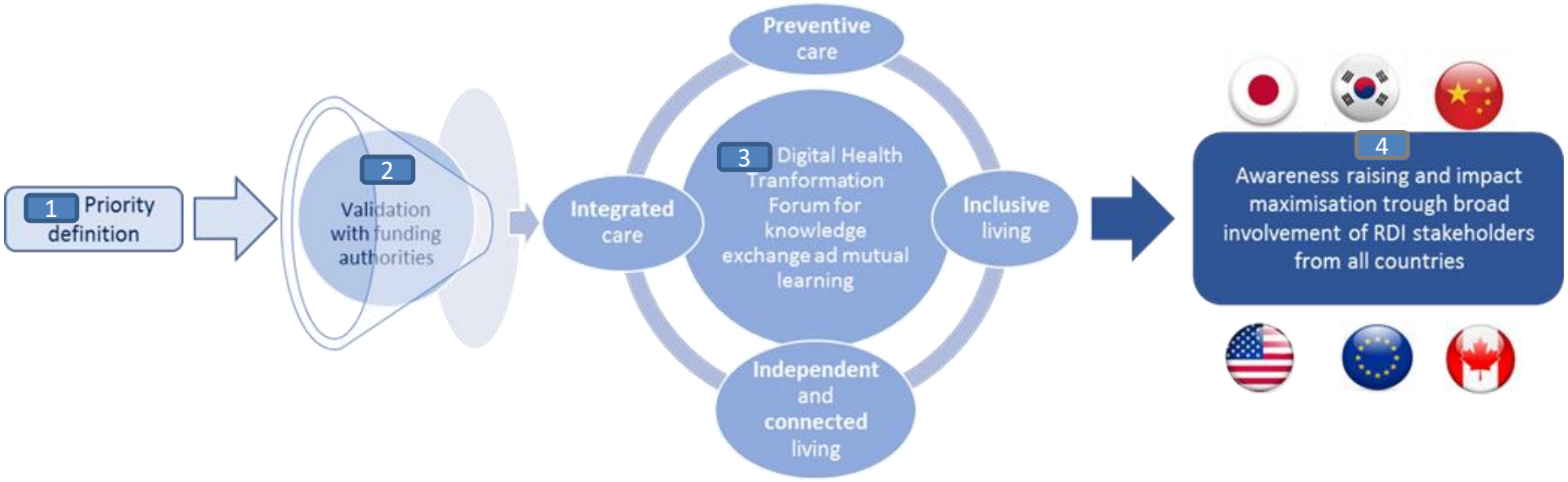
3

To **facilitate the exchanges** between RTI stakeholders from the EU and the Strategic Partner Countries in digital health.

4

To **foster international collaboration** for digital solutions in health care benefitting the society.

Concept and outcomes



The "**Report Towards an international collaboration in digital health [for AHA]**" will result from the operation of the Digital Health Transformation [for AHA] Forum, mainly addressing policy makers and Funding Agencies of all engaged countries and regions.

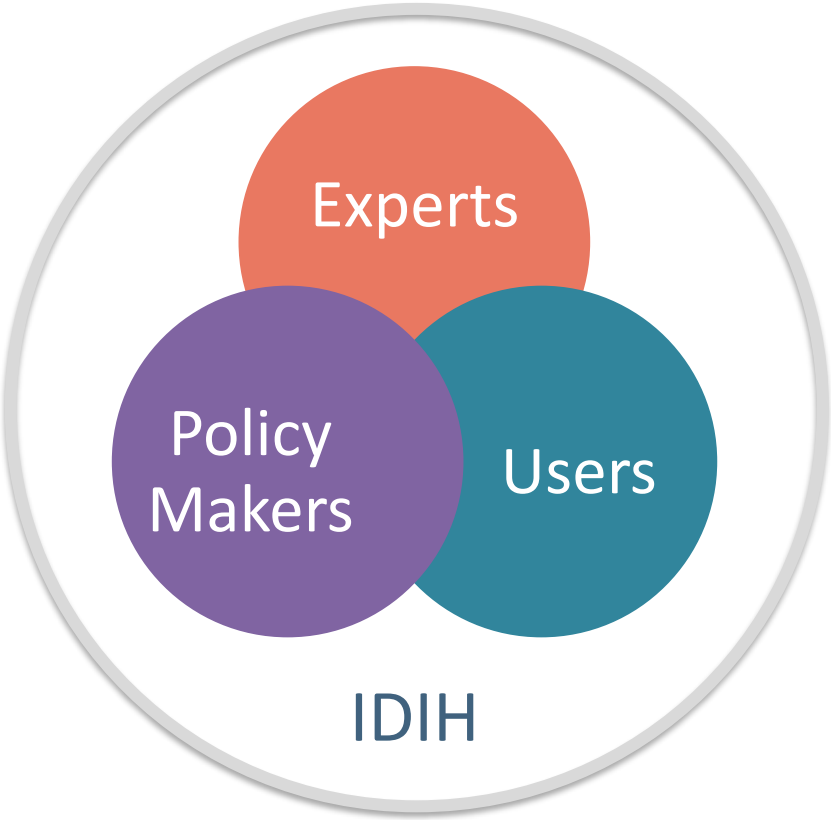
To be meant as a ***roadmap*** **to enhance international cooperation in priority areas**, the Report will also point to **suitable potential funding schemes**, **between the EU and the five Strategic Countries**, providing clear suggestions per topic of interest.

Approach

An **expert-driven approach** will ensure the **involvement of RTI and policy stakeholders, as well as user associations**.

- The project will take the context of **society, technology and industry**, but also the **policy framework** into account for the development of international cooperation activities in the digital transformation of health and care.

- The IDIH Experts Forum is expected to become **a long-lasting mechanism for an international dialogue.**



The IDIH Experts Forum

- The Forum consists of **4 Expert Groups (EGs)**:
  - Preventive Care
  - Integrated Care
  - Independent and Connected Living
  - Inclusive Living
- The EGs have **at least 6 members each,** coming from **research, technology, industry, advocacy groups**, etc.
- The scientific exchange is managed by an **Expert Group Chair**
- The IDIH Experts Forum is expected to become a **long-lasting mechanism for an international dialogue.**

Four Strategic Topics

Preventive care

Focus: Early diagnosis and detection

Active and healthy aging begins with a prolonged health regimen. Tech-enabled solutions that engage users in health and wellness techniques will allow active and meaningful senior lifestyles.

Integrated care

Focus: Using new technologies to redesign, coordinate and integrate health and social services and place citizens, patients and seniors at the centre of health systems.

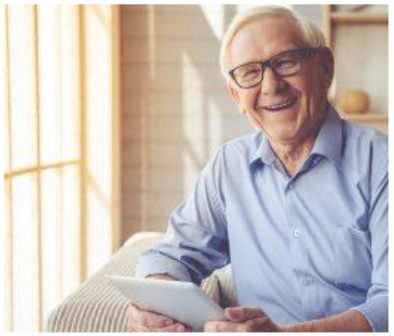
Technology in the integrated care domain is intended to provide support at the point of care, anytime and anywhere.

Independent and connected living

Focus: Tele-monitoring via smart home and living technologies

Connected living is made possible through smart sensors and buildings, mHealth solutions, mobility aids, secure data, robotics, and e-health.

Inclusive living



Focus: Helping the elderly to feel socially more connected

Healthy environments equal healthy individuals. In the aging population, a component of healthy living is inclusivity, promoting positive social engagement, and ensuring a rewarding social aspect to age.

Health A PEOPLE-CENTRED APPROACH **Wellbeing**

The IDIH Users Consultation Group

USERS ENGAGEMENT

- Keeping the most relevant representatives of **'end users' of the digital transformation of health and care in the field of AHA** at the centre of the Roadmap development process, implemented by the IDIH Experts, through the creation of a **'Users Consultation Group' (UCG)** to be involved in the IDIH Experts Forum.

- **UCG will guide the experts** of the Forum to adopt a **users-centered perspective** in the development of the *Roadmap*: Report Towards an international collaboration in digital health

Achievements

- UCG created
- 1° UCG meeting held on May 26, 2020
- D2.2 *Report on first Users Consultation Group meeting*

AGE Platform Europe
Ilenia Gheno, Research Project Manager

EUPHA
EUROPEAN PUBLIC HEALTH ASSOCIATION
Anna Odone, President of the Digital Health section

EUROPEAN INSTITUTE OF WOMEN'S HEALTH
EIWH
Peggy Maguire, Director General

AGING 2.0
Stephen Johnston, co-funder

中国老年学和老年医学学会智慧医养分会
SMART HEALTH CARE AND HOME CARE BRANCH OF CHINA ASSOCIATION OF GERONTOLOGY AND GERIATRICS
Jie Wang, Vice President

Expected Impact

Increased awareness of relevant research and innovation initiatives by stakeholders.

Improved competitiveness of European industry by opening up to international innovation possibilities and gaining access to future markets.

More networking between European and international stakeholders interested in international cooperation in the field.

Increased international cooperation in ICT research and innovation for AHA through a roadmap of priority areas and potential funding schemes.

Contact Details

Thank you for your attention!

Project coordinator

Steinbeis 2i GmbH
For enquiries, please contact:

IDIHglobal@steinbeis-europa.de

@IDIHglobal

IDIH Global

https://idih-global.eu/

IDIH Partners

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 826092.

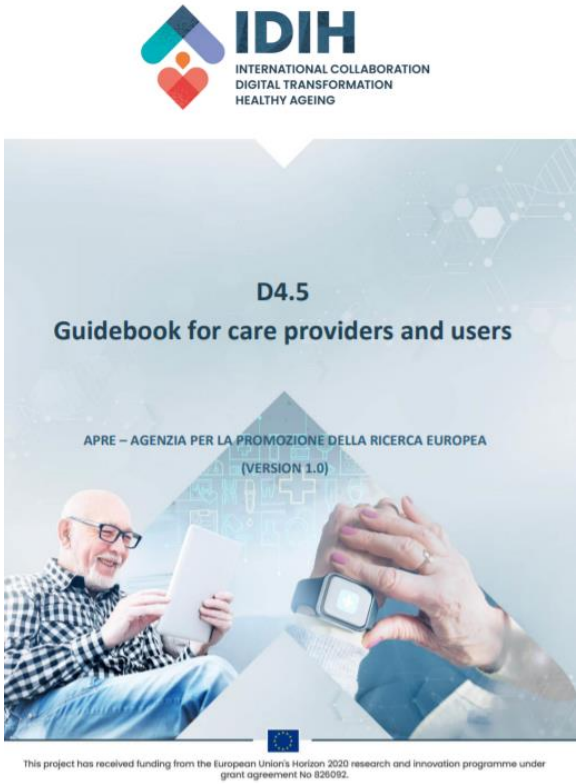
IDIH WEEK 2021

Digital Health & AHA. Presentation of the IDIH Guidebooks on funding opportunities supporting international cooperation

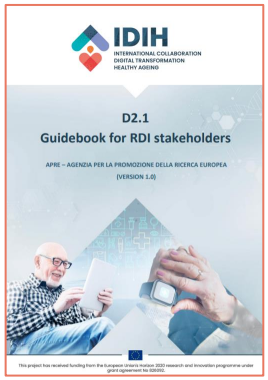
Mathilde De Bonis

Project Manager, APRE

Funding opportunities supporting international cooperation in the field of Digital Health & Active and Healthy Ageing



- RDI stakeholders
- Care Providers and Users (organizations)
- 6 countries/regions
- Policies and programmes



Funding opportunities supporting **international cooperation** in the field of Digital Health & Active and Healthy Ageing

Opportunities for researchers and innovators from IDIH Strategic Partner Countries under **EU Funding Programmes**

Opportunities for EU researchers and innovators under the **Funding Programmes of IDIH Strategic Cooperation Countries**

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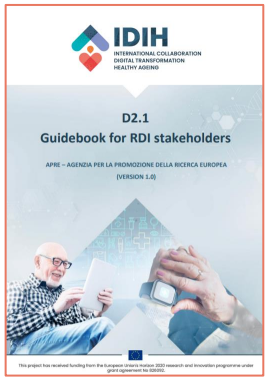

Funding opportunities supporting **international cooperation** in the field of Digital Health & Active and Healthy Ageing

Opportunities for researchers and innovators from IDIH Strategic Partner Countries under **EU Funding Programmes**

- Understanding the landscape for Research and Innovation in the EU

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with new financing raised on the financial markets for 2021-2024;

2. A reinforced long-term budget of the EU: for 2021-2027 (€ 1 100 billion)

In order to invest in a green, digital and resilient Europe, the NextGenerationEU will be rolled out under three pillars:

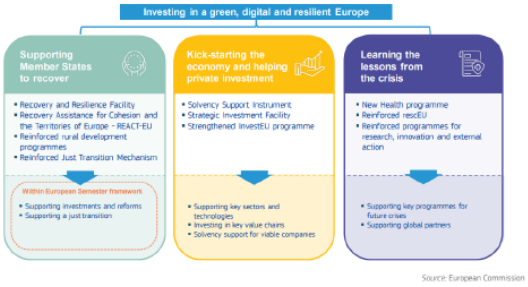


Figure 1: NextGenerationEU: three pillars to recovery and build a more sustainable and resilient Europe

The proposal of the EC of May 26, 2020 needs the agreement and approval of the Council of the Union and the European Parliament. To stay up to date, visit here.

The European Green Deal is the EU roadmap to build a sustainable economy, to be achieved by transforming climate and environmental challenges into opportunities in all policy areas and making the transition fair and inclusive for all.

37% of NextGenerationEU will be spent directly on the European Green Deal objectives addressing the challenge of Climate Change with the mission to become the first climate-neutral continent by 2050 and to increase the 2030 target for emission reduction to at least 55%, pulling the EU to fully embrace a circular economy.

Moreover, a real Data Economy capable to orient the Digital Transformation in the sense of increased connectivity, skills and digital public services - in a

- **May 2020**
  Commission proposal for the revised Multiannual Financial Framework 2014-2020 & 2021-2027 and Own Resources Decision + sectoral legislation
- **By July 2020**
  European Council: Political agreement on Multiannual Financial Framework 2014-2020 & 2021-2027 and Own Resources Decision
- **By summer 2020**
  European Parliament's consultation on Own Resources Decision
- **Early autumn 2020**
  Adoption of the revised Multiannual Financial Framework 2014-2020 + corresponding sectoral legislation
- **October 2020**
  European Council
- **December 2020**
  Adoption of the revised Multiannual Financial Framework 2021-2027 (European Parliament's consent)
  Adoption of the Own Resources Decision (Ratification by all Member States in line with their constitutional requirements)
- **January 2021**
  Multiannual Financial Framework 2021-2027 implementation starts

Figure 2: Timeline towards the implementation of the Multiannual Financial Framework 2021 - 2027

framework of fully respect of t
great opportunity for Europe, th
speed of change.

Digitisation | it is a major driver

Investing, producing and using
amounting to an increase of 3
remains fundamental in the EU,

Major and global new markets ir
developed in the last decades,
internet. These market-creating
growing and often new compan

Research and innovation remair
and industrial competitiveness,
into rapid benefits for society.

"Innovation in all its forms i

The EU objective of investing 3
turning the EU into the most c
2010. The ambition was reset ir
and private investment in R&D

With 2.19% of its GDP invested i
that, nevertheless, has proven t
set their own national targets.

Even if, in some EU countries, k
stimulated through foreign dire
expenditure now accounts for
represented – at EU level - by th
is the European Commission's f
80 billion euros to scientific rese

[6] A European cloud is also part
infrastructure for Europe.
[7] Extract from the *Proposal for a D*
Horizon Europe - the Framework Pr
[8] From the Proposal for a DECISIO
Horizon Europe - the Framework P

some groups of countries: while several Mediterranean and eastern European countries like Estonia, Greece, Hungary, Italy, Slovenia and Spain have managed to raise their scientific output compared to 2000, a decline has been noted for Iceland, Israel, Malta and Turkey since 2007.

As a measure of the impact of EU R&D on Society as a whole, the EU accounts for about one fifth of the world's R&D publications and patents. However, it still perceives the need to better communicating its excellent science and innovation, in order to improve the public awareness on science and technology, as well as to contribute to a stronger *EU identity* on the global scene[15].

Moreover, new global developments, such as the UK's exit from the EU[16], the emerging leadership of China, digitalisation, and a new focus on sustainability are impacting the EU's scientific performance, which is now mainly oriented to food/bioeconomy and climate/environment sectors with high-quality scientific publications[17].

Under the Horizon 2020 Framework Programme, more than 80% of investments has addressed specific SDGs, with the 54% investment to climate action and 53% to good health and well-being.

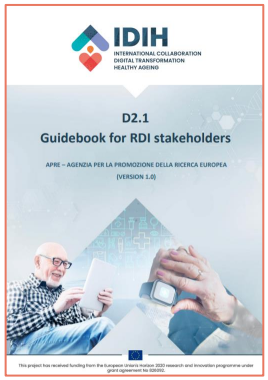
Beyond these specific destinations of EU investment, all areas of research have become data intensive, increasingly relying upon and generating big data, offering us the measure of how much digitalisation has definitely transformed science. The expansion of ICT has produced, indeed, the digital revolution contributing to the EU growth not only in terms of increased productivity but also through more sustainable solutions for the benefits of citizens.

However, even if almost more than 1 in 10 enterprises in the EU performed big data analyses as part of their work, and the share of employment in the EU's ICT sector has risen over the last decade, the role of ICT has remained relatively stable over time in the EU, representing around 4% of GDP.

In short, the ICT diffusion and integration across sectors, firms and individuals in the EU need to be further improved, in order to better compete at global level with other major economies.

ICT in the EU | In the EU, the R&D intensity of the ICT sector was the highest in Finland, Austria and Sweden. *Innovation leaders*, namely Finland, Sweden and Denmark, and *strong innovators*, such as Austria and France, rank highest in terms of their ICT industries' R&D intensity in 2018. At the lower end of the spectrum are Latvia, Luxembourg, Croatia, Lithuania and Romania, but the digital divide between the most-advanced and least-digitally advanced nations seems to be closing. Norway stands out an H2020 associated country with a very high R&D intensity in the ICT sector (for which data are available), close to that of Finland. Source: *Science, Research and Innovation Performance of the EU 2020. A fair, green and digital Europe*. European Commission, DG RTD, 2020.].

[15] See *Innovation output and knowledge valorisation*, in *Science, Research and Innovation Performance of the EU 2020. A fair, green and digital Europe*. European Commission, DG RTD, 2020.
[16] The UK became a third country on 1 February 2020 on the basis of a Withdrawal Agreement that came into force on the same day. The agreement provides for a transition period until 31 December 2020 during which Union law continues to apply to and in the UK.
[17] Compared to China, the EU only appears stronger in health challenge, where its share of scientific publications is 34% higher (2014-2018). See *Science, Research and Innovation Performance of the EU 2020. A fair, green and digital Europe*. European Commission, DG RTD, 2020.



Funding opportunities supporting **international cooperation** in the field of Digital Health & Active and Healthy Ageing

Opportunities for researchers and innovators from IDIH Strategic Partner Countries under **EU Funding Programmes**

- Digital Health for AHA: EU policy priorities and R&I opportunities

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should focus its efforts". It requested the Director-General also to provide normative guidance in digital health, including "through the promotion of evidence-based digital health interventions".

- **WHO: a global strategy and action plan on ageing and health:** To ensure adults live not only longer but healthier lives, a Global strategy and action plan on ageing and health was adopted in May 2016 by the World Health Assembly. This Strategy focuses on five strategic objectives and is a significant step forward in establishing a framework to achieve Healthy Ageing for all. It includes a call for countries to commit to action and develop age-friendly environments. It also outlines the need to align health systems to the needs of older people, and the development of sustainable and equitable systems of long-term care. It emphasises the importance of improved data, measurement, and research, and involving older people in all decisions that concern them.

What is Digital Health? | The term digital health is rooted in eHealth, which is defined as "the use of information and communications technology in support of health and health-related fields". Mobile health (mHealth) is a subset of eHealth and is defined as "the use of mobile wireless technologies for health". More recently, the term digital health was introduced as *"a broad umbrella term encompassing eHealth (which includes mHealth), as well as emerging areas, such as the use of advanced computing sciences in 'big data', genomics and artificial intelligence"* [Source: WHO]

What is Healthy Ageing? | Healthy Ageing is defined by the World report on ageing and health as the process of developing and maintaining the functional ability that enables *well-being in older age*. [Source: WHO]

What is AHA? | The broad concept of AHA was proposed by the WHO as the process of optimizing opportunities for health to enhance *quality of life as people age*. It applies to individuals and population groups. A universal (and operational) definition of AHA is still not available[21].

What is AAI? | Active Ageing Index is a tool to measure the untapped potential of older people for active and healthy ageing across countries. It measures the level to which older people live independent lives, participate in paid employment and social activities, and their capacity to age actively. The AAI is a product of a joint project undertaken in 2012 by the UNECE Population Unit together with the European Commission Directorate General for Employment, Social Affairs and Inclusion and the European Centre for Social Welfare Policy and Research in Vienna. Click here to access the *Guidelines for Active Ageing Index (AAI) in non-EU countries and at subnational level.*

Digital Health and AHA | Relevant EU policies

[21] See Operational definition of active and Healthy Ageing: a conceptual framework: https://ec.europa.eu/eip/ageing/sites/eipaha/files/results_attachments/bousquet.pdf

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 826092.

of the European Commission policy on transformation of health care in the Digital Single Market. It was published together with the Communication and Staff Working Document on this topic.

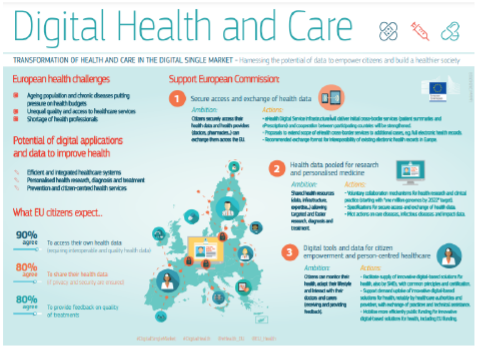

Figure 7: Transformation of Health and Care in the Digital Single Market. Infographics by EC.

- The Commission's Communication on the Transformation of Digital Health and Care of April 2018[25] identified three pillars to build activities around, in order to enhance the digitisation of the health and care sectors:
  - PILLAR 1 - Secure data access and sharing
  - PILLAR 2 - Connecting and sharing health data for research, faster diagnosis and improved health
  - PILLAR 3 - Strengthening citizen empowerment and individual care through digital services
- EU Policies and initiatives supporting Mental Health: policies and services addressing mental health are the responsibility of individual EU countries. However, the need to include mental health among the priorities of the public health agenda has resulted in a renewed focus at EU level[26].

[25] Communication from the Commission to the European Parliament, the Council, the European Economic and Social Committee and the Committee of the Regions on *enabling the digital transformation of health and care in the Digital Single Market; empowering citizens and building a healthier society* (COM/2018/233)
[26] In 2005, the Commission published a Green Paper – Promoting the Mental Health of the Population as a first response to the World Health Organization's Mental Health Declaration for Europe.

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 826092.

- The Joint Action Mental Health and Well-be
  in the European Framework for Action on
  countries to review their policies and sha
  effectiveness. The Joint Action focused, a
  approaches and developing of community-

Digital Health and AHA | R&I at EU level

The last Horizon 2020 Work Programme 2018-202
change and wellbeing gathered 50% of the availab
challenge. The SC1 Work Programme set – at EU le
the aging of population and, in particular, the "risi
costs, mainly due to the increasing prevalence of ch

In the 2014-2020 programming period, Health R&I h
including neuroscience, digitalization, cancer, and s
and international initiatives have been realized, such
and Healthy Ageing, the Global Alliance for Chronic
Years. Better Lives - the Challenges and Opport
Programming on Neurodegenerative Diseases Rese

In this framework, digital health solutions have cre
care services and to address other emerging issues
been developed to diagnose, treat and facilitate pati
diseases. Digital technologies are also increasingly
patients and other healthcare consumers to ac
advantage should be taken of these progresses
protection.

Health research and innovation have played a signifi
in the health and care industry. However, the E
persisting challenges that are threatening citizens
care and social protection systems, as well as the
Among these [27], the demographic change and the
that have a significant socio-economic impact in th
costs for European health care systems.

Indeed, health challenges are complex, interlinked
technical and non-technical, cross-sectorial and tra
period 2021-2027, research and innovation will fos
level in order to pool the expertise, capacities ar

[27] See the Proposal for a DECISION OF THE COUNCIL
Horizon Europe - the Framework Programme for Re
[Interinstitutional File: 2018/0225(COD)].

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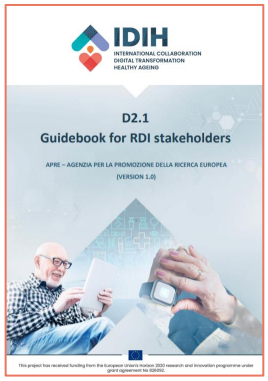

Funding opportunities supporting **international cooperation** in the field of Digital Health & Active and Healthy Ageing

Opportunities for researchers and innovators from IDIH Strategic Partner Countries under **EU Funding Programmes**

- EU Funding Programmes supporting International Cooperation in the field Digital Health for AHA

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EUROPEAN COMMISSION

DG RTD - Research and Innovation

DG CONNECT Communications Networks, Content and Technology

Horizon Europe

CLUSTER 1- HEALTH

1. Health throughout the life course
2. Non-communicable and rare diseases
3. Tools, technologies and digital solutions for health and care, including personalised medicine
4. Environmental and social health determinants
5. Infectious diseases, including poverty-related and neglected disease
6. Health care systems

CLUSTER 4 – DIGITAL, INDUSTRY and SPACE

1. Manufacturing technologies
2. Digital technologies
3. Advanced materials
4. Artificial intelligence and robotics
5. Next generation internet
6. High performance computing and Big Data
7. Circular industries
8. Low carbon and clean industry
9. Space

Areas of intervention

DG SANTE

EU4HEALTH : TOWARDS A HEALTHIER AND SAFER UNION 2021-2027

1. Tackling cross-border health threats
2. Making medicines available and affordable
3. Strengthening health systems

DG REGIO Regional and Urban Policy

European Union
European Social Fund

European Union
European Regional Development Fund

Interreg Europe

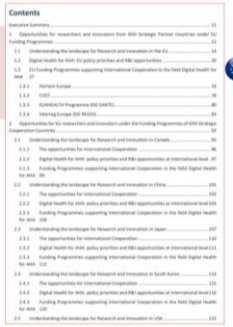
cost PARTNERSHIP

cost
EUROPEAN COOPERATION IN SCIENCE & TECHNOLOGY

COST is **bottom up**, this means that researchers can create a network – based on their own research interests and ideas – by submitting a proposal to the COST Open Call. The proposal can be in any science field.

Funding opportunities supporting international cooperation in the field of Digital Health & Active and Healthy Ageing

Opportunities for researchers and innovators from IDIH Strategic Partner Countries under **EU Funding Programmes**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- EU Funding Programmes supporting International Cooperation in the field Digital Health for AHA

APRE Agenzia per la Promozione della Ricerca Europea

Info Day – June 1, 2021 online

IDIH INTERNATIONAL COLLABORATION DIGITAL TRANSFORMATION HEALTHY AGEING

IDIH WEEK 2021

	Any type of legal entity, including universities, research centres and undertakings can host the PI and his/her team. Legally the Host Institution must be based in one of the EU Member States, or one of the Associated Countries. (!) The PI does not necessarily need to be working at the Host Institution at the time when the proposal is submitted. However, a mutual agreement and the Host Institution's commitment on how the relationship will be established are necessary, should the proposal be successful. ▪ *Team*: ERC grants support projects carried out by an individual researcher who can employ researchers of any nationality as team members. It is also possible to have one or more team members located in a non-European country. Vacancies for team members interested in joining an ERC led research project, can be published on the Euraxess-Jobs portal. Initiatives, under the form of 'Implementing Arrangements', exist for ERC-funded teams in Europe to host non-European talented scientists. Find out more about the agreements.
Grant	Up to € 2 million for a period of 5 years.
Official Sources	https://erc.europa.eu/funding/consolidator-grants

Table 6: ERC Consolidator Grant (main features)

Title	**3 | Advanced Grants (ERC-2021-AdG)**
Deadline	Next tentative deadline: August 31, 2021 (to be open on May 20, 2021)
Target	Established, leading principal investigator who need long-term funding to pursue a ground-breaking, high-risk project
Eligibility criteria	▪ Applicants for the ERC Advanced Grants - called Principal Investigators (PI) - are expected to be active researchers who have a track-record of significant research achievements in the last 10 years. ▪ The Principal Investigators should be exceptional leaders in terms of originality and significance of their research contributions. No specific eligibility criteria with respect to the academic requirements are foreseen.
Eligibility criteria for EU/Third Countries	Any nationality
Type of action	▪ *Criteria*: Applications can be made in any field of research. The ERC's grants operate on a 'bottom-up' basis without predetermined priorities. ▪ *Location*: Research must be conducted in a public or private research organisation (known as a Host Institution/HI). It could be the HI where the applicant already works, or any other HI located in one of the EU Member States or Associated Countries ▪ *Host Institution*: Applications for an ERC grant must be submitted by a single Principal Investigator (PI) in conjunction with and on behalf of their Host Institution, called the applicant legal entity. Grants are awarded to the Host Institution with the explicit commitment that this institution offers appropriate conditions for the Principal Investigator

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	independently to direct the research and manage its funding for the duration of the project. Any type of legal entity, including universities, research centres and undertakings can host the PI and his/her team. Legally the Host Institution must be based in one of the EU Member States, or one of the Associated Countries. The PI does not necessarily need to be working at the Host Institution at the time when the proposal is submitted. However, a mutual agreement and the Host Institution's commitment on how the relationship will be established are necessary, should the proposal be successful. ERC grants support projects carried out by an individual researcher who can employ researchers of any nationality as team members. It is also possible to have one or more team members located in a non-European country. Vacancies for team members interested in joining an ERC led research project, can be published on theEuraxess-Jobs portal. Initiatives, under the form of 'Implementing Arrangements', exist for ERC-funded teams in Europe to host non-European talented scientists. Find out more about the agreements.
Grant	Up to € 2.5 million for a period of 5 years.
Official Sources	https://erc.europa.eu/funding/advanced-grants

Table 7: ERC Advanced Grant (main features)

Title	**4 | Synergy Grants**
Target	Researcher that wants to address a research problem so ambitious, that cannot be dealt with you and your team alone.
Eligibility criteria	▪ A group of two to maximum four Principal Investigators (PIs) – of which one will be designated as the corresponding PI (cPI)[39] – working together and bringing different skills and resources to tackle ambitious research problems. ▪ PIs must present an early achievement track-record or a ten-year track-record, whichever is most appropriate. No specific eligibility criteria regarding the academic training are foreseen for ERC Synergy Grants. ▪ Proposals will be evaluated on the sole criterion of scientific excellence which, in the case the ERC Synergy Grants, takes on the additional meaning of outstanding intrinsic synergetic effect.
Eligibility criteria for EU/Third Countries	Any nationality
Type of action	▪ *Criteria*: Applications can be made in any field of research. The ERC's grants operate o priorities. In the case of th demonstrate that the pro PI working alone.

[39] One of the PIs will act as corresponding PI (cPI), thu

This project has received funding
and innovation program

- Tables of key-info

FUNDING PROGRAMME/SCHEME

- Title
- Deadline
- Eligibility criteria (for EU/Third Countries)
- Type of action
- Grant
- Official Sources

Efforts for national coordination	National coordination includes all activities for ensuring: ▪ the mobilisation of relevant stakeholders at country level, local/national promotion of the project calls; ▪ strengthening impact creation and implementation of results at national/regional/local level; ▪ alignment with national and regional strategies and priorities.

Table 21: EU PARTNERSHIP | Transforming Health and Care Systems

1.3.1.4 More to know (e.g. Projects/Best Practices database/Partner Search services, NCPs, etc.)

[!] DO NOT FORGET | **CROSS-CUTTING ISSUES**

A number of key specific issues will be taken into account in the implementation of Horizon Europe 2021-2024 and, thus, in the evaluation of project proposals. These are transversal aspects creating a sound foundation for the pursuit of the key strategic orientations (Figure 23).

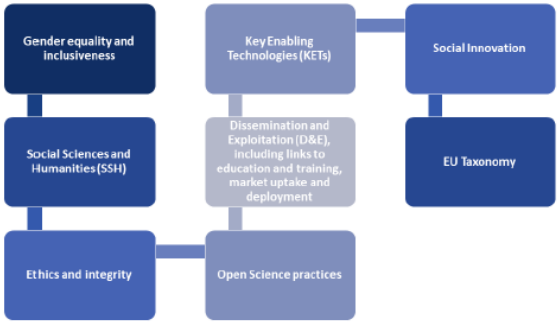

Figure 23: Transversal aspects in the Horizon Europe implementation

In particular, here some highlights:

- Gender equality and inclusiveness: activities should aim at eliminating gender, inequality and intersecting socio-economic inequalities throughout research and innovation systems, including by addressing unconscious bias and systemic structural barriers. The integration of the gender dimension will be, therefore, a requirement by default in research and innovation content across the whole programme.

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- EU Taxonomy: The adoption of the EU Taxonomy Regulation in June 2020[48] creates the world's first-ever "green list" – a clear and common classification system defining which economic activities can be considered as sustainable – a common language that investors, industry and researchers can use to target projects and economic activities that have a substantial positive impact on the environment. The EU Taxonomy can also be used to ensure the 'do no harm' fundamental principle of public recovery investments related to the European Green Deal. More generally the EU Taxonomy should guide all investments in Europe's recovery to ensure they are in line with our long-term ambitions.

These aspects should be considered as part of the three main evaluation criteria followed to date for the current Framework Programme.

EFP | Evaluation Criteria

When a proposal is admissible and eligible, independent experts will:

- advise the Commission if applicants have the sufficient operational capacity with respect to their role and tasks in the proposed action. This assessment will be based on the competence and experience of the applicants, including operational resources (human, technical and other) and, if applicable, exceptionally the concrete measures proposed to obtain it by the time of the implementation of the tasks.
- Evaluate and score proposals against a set of selection and award criteria[49]: *Excellence*, *Impact*, and *Quality and efficiency of implementation*. In order to be considered for funding, a proposal must score above a certain threshold for each criterion, and above an overall threshold. Thresholds may vary according to the work programme.

[!] BE INSPIRED | **Check EU funded projects**

CORDIS

The Community Research and Development Information Service (CORDIS) is the European Commission's primary source of results from the projects funded by the EU's framework programmes for research and innovation (FP1 to Horizon 2020).

[48] See: https://ec.europa.eu/info/business-econo
taxonomy-sustainable-activities_en
[49] These criteria are generally applied to the whole
instrument in H2020).

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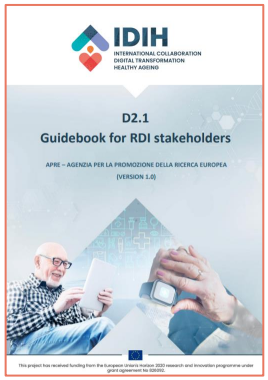
and innovation programme

- More to know

[!] DO NOT FORGET
[!] BE INSPIRED
[!] FIND ASSISTANCE
[!] FIND PARTNERS



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Opportunities for EU researchers and innovators under the **Funding Programmes of IDIH Strategic Cooperation Countries**

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CANADA

CIHR IRSC

Project Grant program

Health-related fundamental or applied knowledge, health research, health care, health systems, and/or health outcomes

Internation al Stream

international collaborations and position Canada and Canadian researchers as strategic partners at the international level

CHINA

CBTC China Belgium Technology Center

Life science, information communication, intelligent manufacturing

JAPAN

JSPS

Free ideas from basic to applied research in all fields

JST

Fundamentally basic research focused on life science

AMED

Integrated research and development in the field of medicine, from basic research to clinical trials

SOUTH KOREA

KIAT Korea Institute for Advancement of Technology

Joint R&D, international cooperation, industrial technology

NRF National Research Foundation of Korea

Research, exchange, human resources, R&D network, joint seminars, universities, research institutions, sciences and technology

USA

NIH National Institute on Aging NIA

- **Understanding** the interpersonal and societal factors of aging
- **Creating effective interventions** for age-related diseases, disorders, and disabilities
- **Addressing Alzheimer's and dementia,** as well as caregiver burden

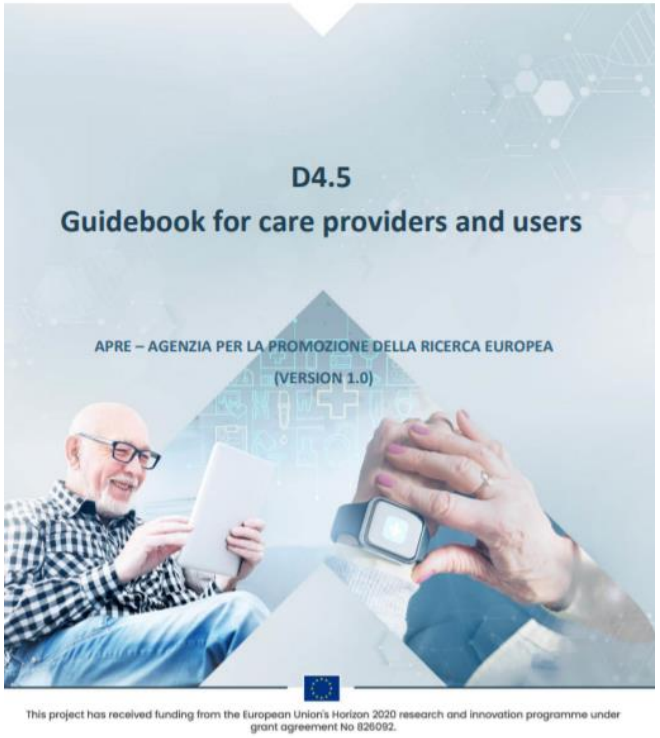
AARP

AARP Foundation seeks projects that advance economic opportunity among low-income older adults:

- **Direct Service projects**
- **Education, Outreach**
- **Field-Building projects**

Funding opportunities supporting international cooperation in the field of Digital Health & Active and Healthy Ageing

IDIH
INTERNATIONAL COLLABORATION
DIGITAL TRANSFORMATION
HEALTHY AGEING



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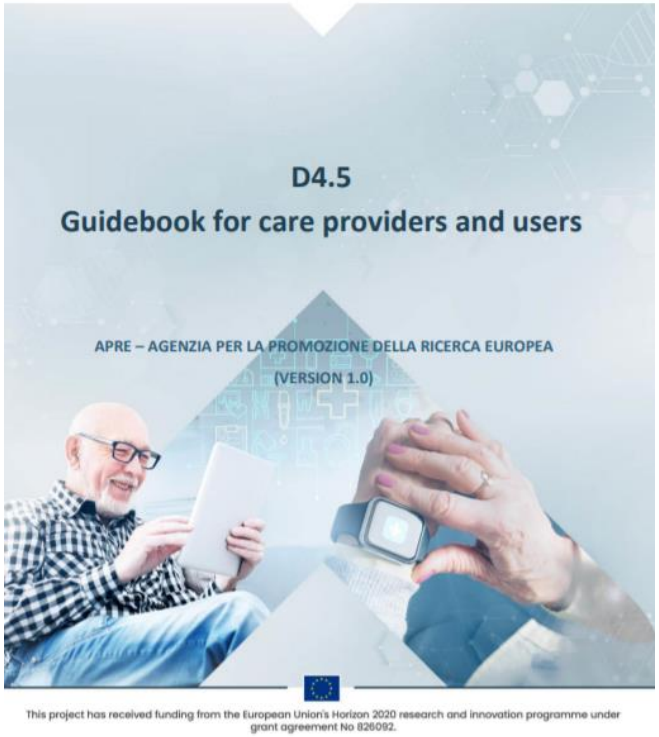

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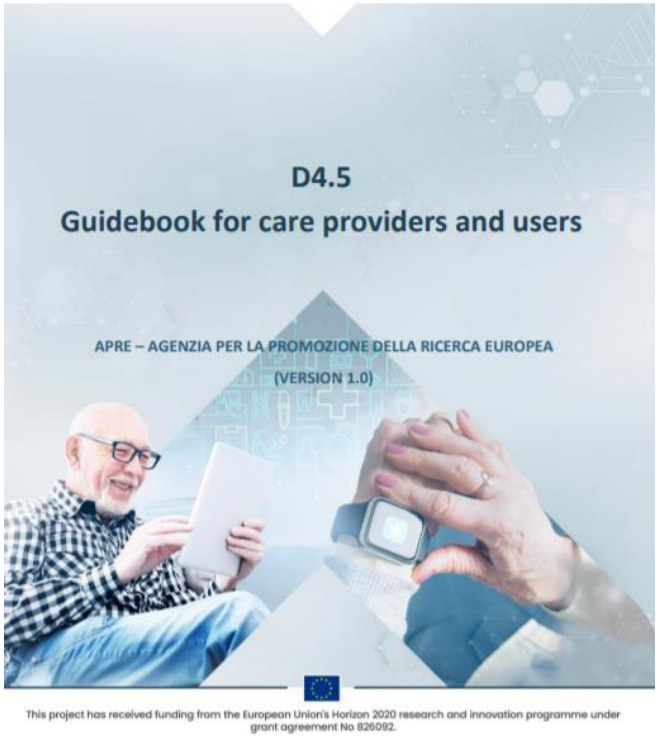


This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 826092.

About this Guidebook and how to consult it

This Guidebook is an information product resulted from the activities of the European project IDIH - *International Digital Health Cooperation for Preventive, Integrated, Independent and Inclusive Living*. IDIH pursues to foster collaboration in the field of digital health for Active and Healthy Ageing (AHA) between the European Union and five Strategic Partner Countries (USA, Canada, China, Japan and South Korea).

IDIH - funded under the European Union Horizon 2020 Research and Innovation Programme – focuses on four key areas that embrace common priorities of all countries/regions involved: Preventive care, Integrated care, Independent and connected living, Inclusive living.

This Guidebook aims to introduce - to care providers and users associations in the EU and in 5 Strategic Partner Countries (Canada, China, Japan, South Korea, and USA) - the funding schemes that are supporting international cooperation in Digital Health and AHA (Active and Healthy Ageing), for the time being and for the next future.

WHO is this Guidebook for?

Care Providers | Private or public organizations that play a central and critical role in ensuring access and quality health care for the aged population, by providing services that prevent diseases and deliver in-hospital/residential/home care services and assistance to individuals and/or families.

Users associations | Organizations that represent the users of the digital solutions for AHA, namely the elderly (and/or their families) and the patients suffering diseases related to Ageing.

From the EU and 5 Strategic Countries | Care providers and users associations that may benefit from this Guidebook are based in the EU and in the 5 Strategic Partner Countries of the IDIH project (Canada, China, Japan, South Korea, and USA).

WHY should you be interested?

Care Providers | The opportunities offered by the collaborative projects that can be funded under the Programmes here presented may allow Care Providers to share good (care) practices at international level and replicate/adapt successful care models at national level. Moreover, by building international cooperation partnerships, Care Providers may widen their networking and attract new strategic stakeholders (namely policy makers, reserachers, innovators and users), which may enable them to further improve their services and create fruitful synergies .

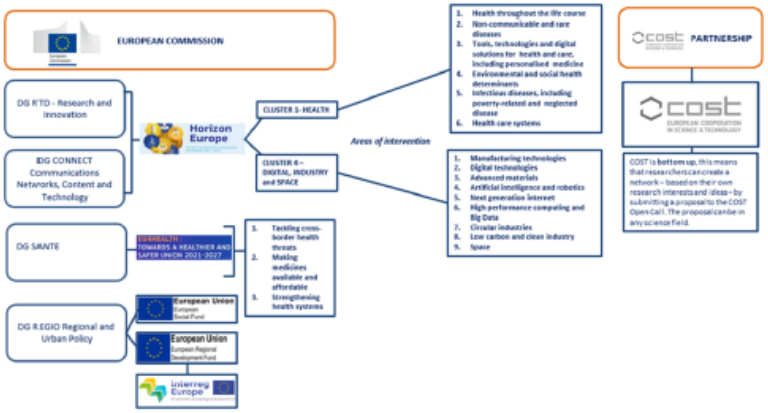
Users associations | As representatives of the needs and expectations of users and patients in the field of Digital Health for AHA, Users associations will benefit from the information here provided discovering new opportunities to cooperate at an international level with other or similar organizations or with researchers and innovators operating in countries that are consideres as strategic for the enhancement of digital innovation for AHA. This could enable them to share good practices at international level and replicate/adapt successful operational models in their respective country/region. Moreover, by building international cooperation partnerships and widening their networking, Users associations may further enlarge their membership and attract new strategic stakeholders (namely policy makers, reserachers, innovators and care providers), which may enable them to better advocate for the interests of the elderly and their families, as well as to create fruitful synergies .

WHAT you will find in this Guidebook

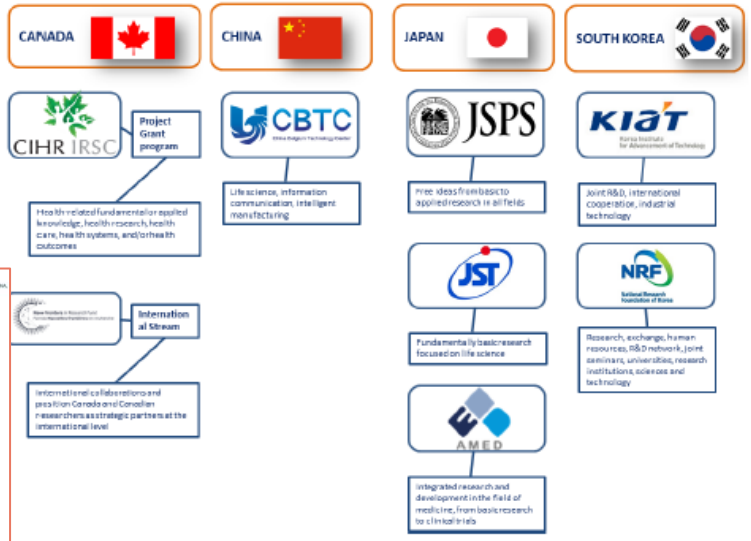
As part of the IDIH project, the Guidebook at hand introduces to Care Providers and Users associations coming from the EU and the IDIH Strategic Countries valuable resources and potential opportunities for international cooperation that are currently offered by the programmes and policies in the fields of Digital Health and AHA in the respective countries/regions.

For what concerns the Funding Agencies and current Programs that deal with Digital Health for AHA in Europe, and may represent untapped opportunities for international cooperation for Care Providers and Users associations from the 5 IDIH Strategic Countries, we included a non-comprehensive but most relevant list of schemes that will be staged in this Guidebook. At EU level, these include primarily the following:

DIGITAL HEALTH FOR AHA. GUIDEBOOK FOR CARE PROVIDERS AND USERS ON FUNDING OPPORTUNITIES IN EU, CANADA, CHINA, JAPAN, SOUTH KOREA, AND USA



At the transnational level, we focus in the framework of the IDIH project those Funding Agencies and current Programs that deal with Digital Health for AHA in the 5 IDIH Strategic Countries. These are visualised below and will be tackled each including highlighted opportunities for international cooperation, specifically where possible special attention for European Care Providers and Users Associations.



HOW to use this Guidebook

The information included in this Guidebook is organized in three sections.

While the Section Funding Programmes present content that is of interest to a larger group of stakeholders, made easily identifiable through *icons and colour codes*, the introductory section Facts & Figures provides relevant data on participation and success rates in R&I programmes (*Section*: Facts & Figures) and testimonies of organizations who experienced international cooperation (*Section*: Stories). Boxes and graphic highlights help to better orient care providers and users and bring to their attention some key-aspects that may allow them to find the most suitable opportunity for international cooperation.

- **Users Icones**

Icons identify the users of this Guidebook and highlight contents pontentially of interest for them

Care Providers Users associations

- **Contents sections**

Contents Sections identify different contents visually in a coordinated and constant manner (by function)

[useful] DEFINITIONS

What is Digital Health? | The term digital health is rooted in eHealth, which is defined as "the use of information and communications technology in support of health and health-related fields". Mobile health (mHealth) is a subset of eHealth and is defined as "the use of mobile wireless technologies for health". More recently, the term digital health was introduced as *"a broad umbrella term encompassing eHealth (which includes mHealth), as well as emerging areas, such as the use of advanced computing sciences in 'big data', genomics and artificial intelligence"* [Source: WHO]

What is Healthy Ageing? | Healthy Ageing is def
process of developing and maintaining the fun
[Source: WHO]

What is AHA? | The broad concept of AHA was
opportunities for health to enhance *quality*
population groups. A universal (and operational)

[1] See Operational definition of active a
https://ec.europa.eu/eip/ageing/sites/eipaha/files/r

What is AAI? | Active Ageing Index is a tool to measure the untapped potential of older people for active and healthy ageing across countries. It measures the level to which older people live independent lives, participate in paid employment and social activities, and their capacity to age actively. The AAI is a product of a joint project undertaken in 2012 by the UNECE Population Unit together with the European Commission Directorate General for Employment, Social Affairs and Inclusion and the European Centre for Social Welfare Policy and Research in Vienna. Click here to access the *Guidelines for Active Ageing Index (AAI)*.

E-health glossary:

- **Patient summaries**
  Patient summaries collect main essential health data of each patient. They will be accessible to health professionals in the EU, facilitating tailored care for EU citizens even when accessing services in other EU countries.
- **e-prescriptions and e-dispensations**
  Patients abroad can receive similar medication to that of their home countries through e-prescriptions and e-dispensations.
  e-prescribing permits the electronic transmission of a prescription to a pharmacy while e-dispensing refers to the electronic retrieval of a prescription and supply of the medicine to the patient.
- **Electronic Health Records (EHRs)**
  EHRs refer to the comprehensive medical records of an individual that are accessible in electronic form.

Figure 1: E-health glossary of the European Commission: https://ec.europa.eu/health/ehealth/home_en

International cooperation opportunities for Care Providers and Users associations

In times of Covid-19 pandemic, research and innovation are becoming more and more crucial. COVID-19 has shown the vulnerability of our societies, especially impacting on the economy and on the health and care systems, that are now called to become more *resilient*. Collaboration at research and policy level has increased as never happened in the last 50 years, working with and for the citizens, who progressively changed their perception towards science in society and now seem to trust researchers more.

Many initiatives have been put in place by the European Commission to facilitate research activities through dedicated funding opportunities, the sharing of research data in the framework of the "ERAvs Corona Action Plan", and a huge Pan-EU Hackaton to mobilize European Innovators and civil society.

We are currently witnessing an extraordinary coordination effect, and a fast reaction from the Member States of the EU, that was very much necessary at the time of such an unextepected pandemic, and now is needed again to recover and build a better future around a *well performing* R&I landscape, based on international cooperation and, therefore, capable of facing global challenges.

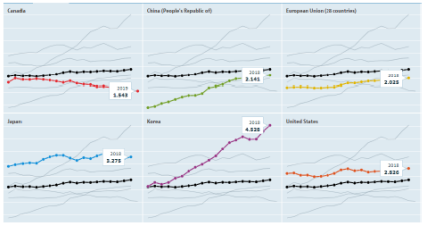
Indeed, in order to overcome this global crisis and its social and economic impact on society, R&I needs to be the very best fertile ground for cooperation at international level.

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 826092.

RESEARCH AND INNOVATION

Gross domestic spending on R&D in the EU and in the IDIH Strategic Countries[11]

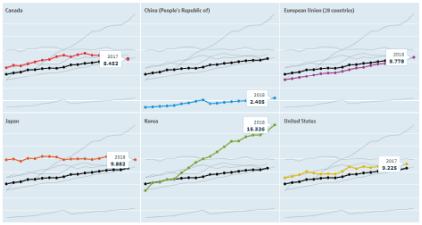
[*Source*: OECD (2020)] Gross domestic spending on R&D is defined as the total expenditure (current and capital) on R&D carried out by all resident companies, research institutes, university and government laboratories, etc., in a country. It includes R&D funded from abroad, but excludes domestic funds for R&D performed outside the domestic economy.



This indicator is measured in USD constant prices using 2010 base year and Purchasing Power Parities (PPPs) and as *percentage of GDP*, and should be considered looking at the different level of analysis (e.g. if related to a country or a region) and taking into consideration the different political and socio-economic systems. However, it shows the primacy of Korea in this field with 4,5 % of GDP allocated to R&D, followed by Japan with 3, 3%. The average % of GDP on R&D in these countries and regions is 2,7%.

Researchers in the EU and in the IDIH Strategic Countries[12]

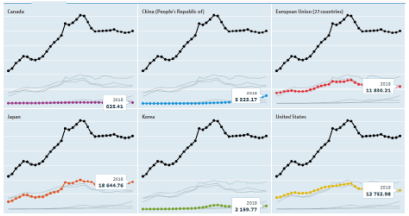
[*Source*: OECD (2020)] Researchers are professionals engaged in the conception or creation of new knowledge, products, processes, methods and systems, as well as in the management of the projects concerned.



This indicator is measured in per 1 000 people employed and in number of researchers and reflects the data provided on GDP spenditure on R&D. In fact, it shows the primacy of Korea per number of researchers (15.3 per 1000 people employed), followed by Japan with almost 10 researchers per 1000 people employed. The average of researchers in these countries and regions is 9 per 1000 people employed and shows how China is positioning at the bottom of this ranking with only 2,4 researchers per 1000 people employed.

Triadic patent families in the EU and in the IDIH Strategic Countries[13]

[*Source*: OECD (2020)] A triadic patent family is defined as a set of patents registered in various countries (i.e. patent offices) to protect the same invention. Triadic patent families are a set of patents filed at three of these major patent offices: the European Patent Office (EPO), the Japan Patent Office (JPO) and the United States Patent and Trademark Office (USPTO). Triadic patent family counts are attributed to the country of residence of the inventor and to the date when the patent was first registered.



This indicator is measured as a *number*. It shows the primacy of Japan per set of patents (18 644,76) followed by USA and the EU27. Besides these top performers, the other countries are positioned all below the average of triadic family patents among the IDIH countries/regions, that is 8.556,2, with Canada at the bottom of this ranking with 625.41 triadic patent families.

HIGHLIGHTS ON PARTICIPATION AND FUNDING UNDER THE EFP

Based on the data of the H2020 Dashboard, here follows some highlights on participation and funding in the EU Framework Programme (2014-200), reported also *per country/region* involved in this Guidebook , as well as *per type of participant* and *relevant topics* (afferent to Digital Health and AHA).

Participant and funded organizations from the EU and the 5 IDIH Strategic Countries

H2020 | Overview of participation and funding

- 31.003 signed grants
- 152.199 participations
- 58,39 billions EU contribution

Figure 2: Net EU contribution by country (EUR) - Source: H2020 Dashboard

Figure 2 shows also how the European framework Programme for Research and Innovations has been to dates really "open to the world".

H2020 | Participation of public/private organizations and other organizations (excluding research and education)

- 69.952 participations (45,96% of H2020)
- 20,7 billions Net EU contribution (35,44% of H2020)

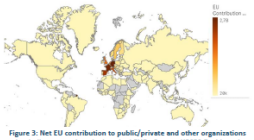


Figure 3: Net EU contribution to public/private and other organizations (excluding research and education) EUR - Source: H2020 Dashboard

Care Providers and Users associations may fall under the cathegories here mentioned, as organizations other than research and education organizations, both public or private legal entities. Figure 3 shows how the EU contribution within the framework of H2020 has been dinstributed among such organizations all around the world, reporting significant data about the share of this kind of participation out of the domain of research and education (45,96%: almost a half of H2020 participants, in a framework programme dedicated to Research and Innovation). This shows the great potential within H2020 of innovators and SMEs, as well as umbrella organizations and Civil Society, often laying behind such cathegories.

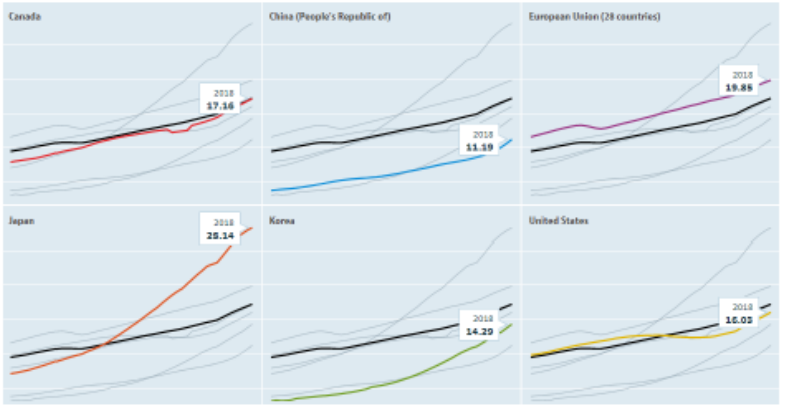
FACTS & FIGURES

Facts & Figures

AGEING AND CARE SERVICES

The elderly population in the EU and in the IDIH Strategic Countries [8]

[*Source*: OECD (2020)] The elderly population is defined as people aged 65 and over. The share of the dependent population is calculated as total elderly and youth population expressed as a ratio of the total population. The elderly dependency rate is defined as the ratio between the elderly population and the working age (15-64 years) population. The comparability of elderly population data is affected by differences, both within and across countries, in how regions and the geography of rural and urban communities, are defined. Elderly people tend to be concentrated in few areas within each country, which means that a small number of regions will have to face a number of specific social and economic challenges due to population ageing. These demographic trends have a number of implications for government and private spending on pensions, health care, and education and, more generally, for economic growth and welfare.



This indicator is measured as a *percentage of population*, and shows the primacy of Japan in this field with the 28,14 % of population aged 65 and over, followed by the EU27 (19,85 % of population). The average % of population in these countries and regions is 17,7 % . The youngest population among these is represented by China with the 11, 19 % of people aged 65 and over.

[8] This part is extracted from OECD (2020), Elderly population (indicator). doi: 10.1787/8d805ea1-en

IDIH

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 826092.

European Institute of Women's Health (EIWH)

I'm representing the European Institute of Women's Health that was founded in 1996. It is a non-governmental organisation set up to promote gender equity in public health, research and social policies across the Europe. We promote gender-specific biomedical and socio-economic research, to ensure quality and equity in health policy throughout t our position papers and policy br Parliament, or other NGOs. We engaged in the Aging and Disabil demographic change and wellbe to the WHO strategy on Gender Medicine Agency and we are pa and Prevention, also dealing wit

The project funded under the 7t experience in collaborative proje partnership with Italy, Denmark through cooperation, I can and epidemics, a Gender websi Opena nd Responsible research Forum.

I could experience different ap reach the goals of the organis experience on reaching conse

To anyone intends to to access f that are releva Stay up to date on the EU its related events/webinars and themes and to meet potential future project partners, or to put a consortium together yourself for your research idea!

Peggy Maguire,
Director General

DIGITAL HEALTH FOR AHA. GUIDEBOOK FOR CARE PROVIDERS AND USERS ON FUNDING OPPORTUNITIES IN EU, CANADA, CHINA, JAPAN, SOUTH KOREA, AND USA

Aging 2.0 (a global network)

Aging 2.0 is a global network for innovation in aging. We currently have 120 cities around the world where our Chapters operate, all run by volunteers, bringing together technology companies, industry providers, research and users' groups, all engaged in connecting tech with aging.

We have Grand challenges which we are looking to solve, also supported by our network sponsors. We are now building out the world's first collective intelligence platform for innovation in aging, The Collective, that will connect thousands of innovators with providers. The digital tool is being developed by Shapeable.ai, drawing on their experience building technology solutions for the World Economic Forum, among other global organizations.

In 2018, we were hosted by CABHI in Toronto for a forum on Brain Health in 2018. Moreover, we produced the report Crossing Digital Divide sponsored by Nomura Research Institute. As stated in the report, this is the first of a series of reports and workshops, to enhance understanding, build business opportunities and partnerships, and bring solutions to critical social issues. It is the starting point of a collaborative innovation process, enabled by The Aging2.0 Collective, and making use of its network of 125+ city chapters and 30,000+ subscribers.

Our Topic Teams are working on many of the challenges facing aging society and t economy. Following this first activity of 'Framing the Challenge' the expert group w further insights, bringing perspectives from the older adult, business, local community making. A definition of business opportunities and ideas for solutions will be released a report.

Steph

DIGITAL HEALTH FOR AHA. GUIDEBOOK FOR CARE PROVIDERS AND USERS ON FUNDING OPPORTUNITIES IN EU, CANADA, JAPAN, SOUTH KOREA, AND USA

Smart Health Care and Home Care (China)

中国老年学和老年医学学会智慧医养分会
SMART HEALTH CARE AND HOME CARE BRANCH OF CHINA ASSOCIATION OF GERONTOLOGY AND GERIATRICS

I'm representing a newly established organization that is part of the China association of Gerontology and Geriatrics. It is a branch of this association called "Smart Health Care and Home Care" that was established in 2018, whose members are mainly research institutions, but also professionals and industry providers in the frontline of senior care. We actually realize a meeting at academic level once a year addressing "smart health care and smart senior care".

The China Association of Gerontology and Geriatrics of which we are part is the oldest association in China in the field of aging, established on 1986; almost all the other organizations in this filed are under its umbrella. As you may know, in China the government is the major primary forces behind aging and health care, so we normally work very closely with central and local government.

In 2018, Ministry of Industry and IT, Ministry of Civil Affairs, National Health Commission jointly launched a program to identify a number of successful cases of technologies applied to health aging. So far, a few hundred such cases have been identified and published. One of the key criteria is "Users-Centric". Moreover, Shanghai government recently published a list of users-centered scenarios of digital application in AHA, which has received a lot of positive reactions. I believe that using these kinds of users-centered application scenarios to guide the development of the technologies will become more and more common in China.

International collaborations with China, in my opinion, are more feasible if focusing on technical areas, instead of philosophical or ideological issues. China is still a developing country, and tends to spend money on carefully selected areas, any ideas on large scale spending that would drain the government financial resources would be ignored.

I would suggest to potential applicants for funding in China to find a stable, responsive partner in China, and to be sensitive to the current funding focus in China. The areas of the collaboration should be those where China has obvious weakness, lack of experience or expertise; more application-oriented instead of theoretical work. Moreover, the collaborated work should avoid any political sensitive issues, or results that can be applied only after significant government structure reforms.

Jie Wang
Vice President

DIGITAL HEALTH FOR AHA. GUIDEBOOK FOR CARE PROVIDERS AND USERS ON FUNDING OPPORTUNITIES IN EU, CANADA, JAPAN, SOUTH KOREA, AND USA

STORIES

Stories

AGE Platform Europe

AGE Platform Europe is an ombrella organisation of associations of and for people aged 50+. AGE works to voice the needs and concerns of people as they age and to convey them to the European institutions, rooting for a age-friendly society and environments.

Set up in 2001, AGE joint the first European projects in 2006, supporting its policy activities, namely in the field of social inclusion and employment. The involvment in projects activities grew exponentially, since AGE was granted a 7th Framework Programme project. Working on the research perspective for healthy ageing brought the Secretariat team to grow in number and competences covered. Thanks to project activities, initially funded by 7th Framework Programme and then by Horizon2020, AGE was able to work on digital technologies, on ethical issues of health and care, on mobility, standards, SME grant), thus providing update information on e to inform the policy level.

arch projects, AGE collaborated with countries all with users, researchers and policy-makers around l and social issues structure the outcomes of some Spain means to consider that the meeting should would not be before 14. Dinners also happen later ne Finnish and Danish attendees to follow until the nce is so lively and caring, which helps overcoming eign country whee one does not know the language actions.

and perspectives is also definitely mind-opening. would have difficultly be available by an austere sequences some actions may have in cultures and

mprehensive and open as possible?

Ilenia Gheno,
Research Project Manager

[*Appendix*] - More to know about EU Funding Programmes

Useful information for applicants

Cross-cutting issues and evaluation criteria

[!] DO NOT FORGET | CROSS-CUTTING ISSUES

A number of key specific issues will be taken into account in the implementation of Horizon Europe 2021-2024 and, thus, in the evaluation of project proposals. These are transversal aspects creating a sound foundation for the pursuit of the key strategic orientations (Figure 23).

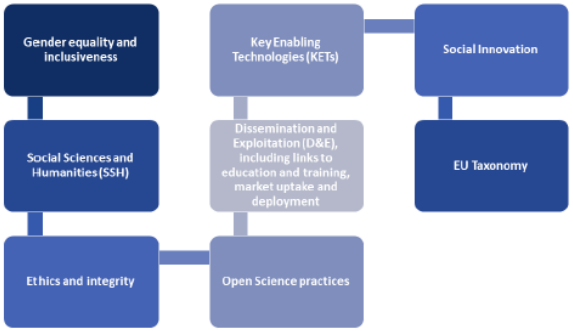


Figure 11: Transversal aspects in the Horizon Europe implementation

In particular, here some highlights:

- Gender equality and inclusiveness: activities should aim at eliminating gender, inequality and intersecting socio-economic inequalities throughout research and innovation systems, including by addressing unconscious bias and systemic structural barriers. The integration of the gender dimension will be, therefore, a requirement by default in research and innovation content across the whole programme.

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 826092.

- EU Taxonomy: The adoption of the EU Taxonomy Regulation in June 2020[58] creates the world's first-ever "green list" – a clear and common classification system defining which economic activities can be considered as sustainable – a common language that investors, industry and researchers can use to target projects and economic activities that have a substantial positive impact on the environment. The EU Taxonomy can also be used to ensure the 'do no harm' fundamental principle of public recovery investments related to the European Green Deal. More generally the EU Taxonomy should guide all investments in Europe's recovery to ensure they are in line with our long-term ambitions.

These aspects should be considered as part of the three main evaluation criteria followed to date for the current Framework Programme.

EFP | Evaluation Criteria

When a proposal is admissible and eligible, independent experts will:

- advise the Commission if applicants have the sufficient operational capacity with respect to their role and tasks in the proposed action. This assessment will be based on the competence and experience of the applicants, including operational resources (human, technical and other) and, if applicable, exceptionally the concrete measures proposed to obtain it by the time of the implementation of the tasks.
- Evaluate and score proposals against a set of selection and award criteria[59]: *Excellence*, *Impact*, and *Quality and efficiency of implementation*. In order to be considered for funding, a proposal must score above a certain threshold for each criterion, and above an overall threshold. Thresholds may vary according to the work programme.

[58] See: https://ec.europa.eu/info/business-economy-eu-taxonomy-sustainable-activities_en

[59] These criteria are generally applied to the whole Progra instrument in H2020).

This project has received funding from the Eu and innovation programme under g

- [Appendix] - More to know about EU Funding Programmes

[!] DO NOT FORGET
[!] BE INSPIRED
[!] FIND ASSISTANCE
[!] FIND PARTNERS
[!] GET INVOLVED

Databases of EU funded projects

[!] BE INSPIRED | **Check EU funded projects**

CORDIS

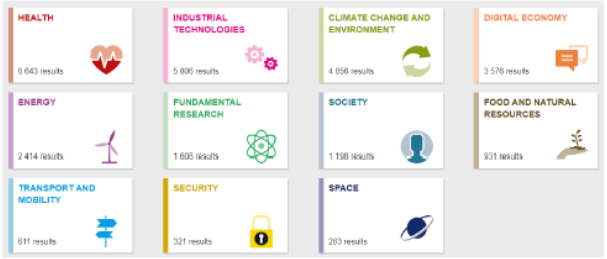
The Community Research and Development Information Service (CORDIS) is the European Commission's primary source of results from the projects funded by the EU's framework programmes for research and innovation (FP1 to Horizon 2020).

CORDIS has a rich and structured public repository with all project information held by the European Commission such as project factsheets, participants, reports, deliverables and links to open-access publications.

CORDIS also produces its own range of publications and articles to make it easier for you to find relevant results that you can use in your domain. The print editions are in English while the web versions are also available in French, German, Italian, Polish and Spanish.

CORDIS articles are classified by high-level domains that reflect where the research results could be applied, independently of their field of science. Therefore, you can browse by domain of application or filter by keywords, or by specific type of information/document sought.

- Projects filtered by the keyword "AHA" may be explored here
- 11 domains have been identified to collect information on R&I projects in CORDIS:



Success Stories database

The most recent *success stories* from EU-funded Research and Innovation projects all around the world are available here and can be filtered by *themes* and *countries*.

Among the relevant themes: Health & Life Science>Health &Ageing, Information Society, International Coopration.

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DIGITAL HEALTH FOR AHA. GUIDEBOOK FOR CARE PROVIDERS AND USERS ON FUNDING OPPORTUNITIES IN EU, CANADA, CHINA, JAPAN, SOUTH KOREA, AND USA

The website is available in 7 EU languages besides English.

Horizon Results Platform

The Horizon Results Platform is a Platform where EU Framework Programme Participants present their results for you to search, contact their owners, and hopefully form fruitful partnerships that will eventually generate the desired value.

The Horizon Dashboard is an intuitive and interactive knowledge platform offering a user-friendly public access to statistics and data on EU research and innovation:

- Easy access to overview and detailed information on proposals, funded projects and project results, notably reported IPRs and scientific publications,
- Views on specific aspects e.g. the Seal of Excellence, the European Innovation Council
- Intuitive functions for filtering and drilling down, allowing analysis by geographical location, research thematic area, organization types etc.
- Functions for data export, story-building and bookmarking – log in here to access full Dashboard functionalities

Results with relevance to COVID-19 are also collected in a dedicated section.

Instructions to publish results on the Horizon Results Platform are available here.

[!] Interreg Europe | **Online Database of funded projects:** Interreg Europe also provides a detailed database with information regarding all funded projects. The complete database can be accessed through https://www.interregeurope.eu/search/?tx_tevsearch_search%5BentityTypes%5D%5B0%5D=project&tx_tevsearch_search%5BfilterMap%5D=project&cHash=5d4ae2fc537c19f8e2faa889c5232906.

This project has received funding from the European Union's Horizon 2020 research and innovation programme under

- [Appendix] - More to know about EU Funding Programmes

[!] DO NOT FORGET
[!] BE INSPIRED
[!] FIND ASSISTANCE
[!] FIND PARTNERS
[!] GET INVOLVED

How to search and apply for funding opportunities

The Funding & tender Portal (the Single Electronic Data Interchange Area) is the entry point for participants and experts in funding programmes and tenders managed by the European Commission and other EU bodies.

FUNDING & TENDER PORTAL | Functionalities

- Search and apply for funding opportunities in calls for proposals
- Search a call for tender and submit a tender
- Manage your grants and contracts
- Register as an expert, manage contracts and payments online.

5 steps are sufficient to participate through the Funding & Tenders Portal.

How to participate in 5 steps

- Find an OPPORTUNITY
- Find PARTNER(s)
- Create an ACCOUNT
- Register your ORGANISATION
- Submit your PROPOSAL or OFFER

1 | Find an OPPORTUNITY

The European Commission and its funding bodies publish calls for proposals on the Funding & Tenders Portal. Therefore, you may start your search:

- by entering different *keywords*, from the home page, that characterize best your field of interest, and then refine the results with the help of further filters.
- by selecting one of the EU funding programmes listed on the home page, and then navigate via the quick links to the calls for proposals of a specific programme.
- Calls are divided into topics, implemented by different type of actions. Select a topic to read more about the identified opportunity: the topic-related documents, guidance and other instructions are available on a topic page.

IDIH

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DIGITAL HEALTH FOR AHA. GUIDEBOOK FOR CARE PROVIDERS AND USERS ON FUNDING OPPORTUNITIES IN EU, CANADA, CHINA, JAPAN, SOUTH KOREA, AND USA

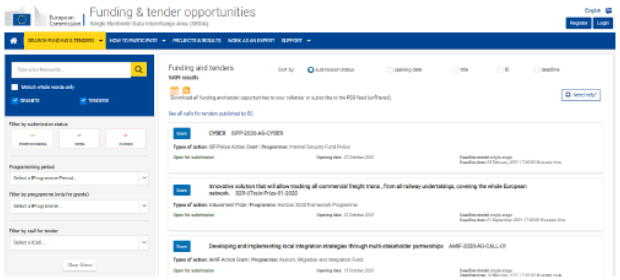

Figure 12: Funding & Tenders Portal (Home Page)

2 | Find PARTNERS (optional)

- Read the topic conditions to assess the partnership and other eligibility requirements of a call.
- To publish your partner search request or offer, select a topic on the Search Funding and Tenders page. Further help is available in the IT HOW TO.
- Use the Partner Search site to select an organisation based on their profile or their previous participation.

3 | Create an ACCOUNT

- Each user has to have an EU Login account to log in on the Portal. If you already have such an account, you can use it for any interactions supported on this site from proposal submission to reporting.
- If you do not have an account yet, you need to create it by clicking on the REGISTER button. Otherwise you get access only to the public services of the site (eg. searching funding opportunities, reading guidance, etc.)

4 | Register your ORGANIZATION

- The Participant Register is the Commission online tool to register and manage the data of the organisations participating in the EU programmes. It allows consistent handling of the participants` official data and avoids multiple requests to enter the same information.
- If you want to participate in a project proposal, your organisation needs to be registered and have a 9-digit Participant Identification Code (PIC). This unique identifier of your organisation will be used as a reference by the Commission in any interactions.

5 | Submit your PROPOSAL or OFFER

- Select your topic and go to the Submission Service you select the correct type of action before you

IDIH

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- [Appendix] - More to know about EU Funding Programmes

[!] DO NOT FORGET
[!] BE INSPIRED
[!] FIND ASSISTANCE
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[!] GET INVOLVED

SHAPES | Smart and Healthy Ageing through People Engaging in Supportive Systems

SHAPES

Funding Programme	EU-funded project – H2020-EU.3.1.4.1. - Active ageing, independent and assisted living H2020-EU.2.1.1.3. - Future Internet: Software, hardware, Infrastructures, technologies and services
Call for proposals/Topic	H2020-SC1-FA-DTS-2018-2 / DT-TDS-01-2019 - Smart and healthy living at home
Start date	1 November 2019
End date	31 October 2023
Coordinator	NATIONAL UNIVERSITY OF IRELAND MAYNOOTH (Ireland)
Partner countries involved	Consortium partners (35) are from Ireland, Belgium, Italy, Greece, Germany, Spain, Portugal, Czech Republic, Cyprus, France, Finland, UK, Sweden, Norway
Objectives	The SHAPES Innovation Action (IA) intends to build, pilot and deploy a large-scale, EU-standardised open platform. The integration of a broad range of technological, organisational, clinical, educational and societal solutions seeks to facilitate long-term healthy and active ageing and the maintenance of a high-quality standard of life. Mediated by technology, in-home and local community environments interact with health and care (H&C) networks contributing to the reduction of H&C costs, hospitalisations and institutional care. Leading the SHAPES consortium is the ALL Institute at Maynooth University who possess a wealth of expertise and research focused on smart and healthy ageing. The ALL Institute combines subject matter experts across Psychology, Law, Computer Science, Adult and Community Education and Electrical Engineering to target real human problems and promote greater inclusivity in our everyday lives. SHAPES Large-scale Piloting campaign engages more than 2000 older individuals in 15 pilot sites in 10 EU Member States, including 6 Reference Sites of the European Innovation Partnership (EIP) on Active and Healthy Ageing (AHA), and involves hundreds of key stakeholders to bring forth solutions to improve the health, wellbeing, independence and autonomy of older individuals, while enhancing the long-term sustainability of health and care systems in Europe.
Deliverables/Outcomes	The deliverables and outcomes will be available on the project website
Website/other useful links	https://shapes2020.eu https://cordis.europa.eu/project/id/857159
Keywords	Open platform; health and care (H&C); technology

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 826092.

PlatformUptake.eu

PlatformUptake.eu

Funding Programme	EU-funded project – H2020-EU.3.1.4.1. - Active ageing, independent and assisted living H2020-EU.3.1.5.1. - Improving halth information and better use of health data
Call for proposals/Topic	H2020-SC1-DTH-2019 / SC1-HCC-02-2019 - Support for the large scale uptake of open service platforms in the Active and Healthy Ageing domain
Start date	1 January 2020
End date	28 February 2022
Coordinator	SYNYO GmbH (Austria)
Partner countries involved	Consortium partners (11) are from Italy, Germany, Greece, Slovenia, the Netherlands, Portugal, Sweden, Belgium
Objectives	Ageing is one of the biggest socioeconomic challenges of this century. In the European Union alone, 20% of the population will be over 65 by 2025. The EU-funded PlatformUptake.eu project aims to observe, analyse and understand the whole range of open service platforms and their related networks. This in turn will help generate synergies among them.
Deliverables/Outcomes	The outcomes can be found on the website
Website/other useful links	https://www.platformuptake.eu/ https://cordis.europa.eu/project/id/875452
Keywords	Open platform; ageing; EU

- [Appendix] - More to know about EU Funding Programmes

Projects and initiatives at international level in the field of Digital Health for AHA

This project has received funding from

[!] DO NOT FORGET

[!] BE INSPIRED

[!] FIND ASSISTANCE

[!] FIND PARTNERS/SYNERGIES

[!] GET INVOLVED

Have your say!

[!] GET INVOLVED | European Research and Innovation Days

EUROPEAN RESEARCH & INNOVATION DAYS

DRAFT PROGRAMME VIRTUAL EVENT

23 JUNE 2021

POLICY CONFERENCE

Join live sessions with interesting speakers talking about the future of European research and innovation, and Horizon Europe, the new EU-funded Programme on research and innovation.

Create your own programme by choosing from all the live sessions available, ranging from high-level plenaries to immersive panel discussions on topics such as the post-COVID-19 reco… green future and more.

	CHANNEL 1	CHANNEL 2	CHANNE…
09:00 - 10:00	☆ OPENING CEREMONY		
10:15 - 11:00	★ PLENARY Cities and citizens delivering on **EU Missions**		
11:15 - 12:00	★ PLENARY **Innovation Cohesion**		
12:15 - 13:00	★ PLENARY Memorandum of Understanding signature ceremony for **EU Partn…**		
13:00 - 14:00	BREA…		
14:00 - 14:15	★ PLENARY **Innovation:** The way forward for Europe		
14:30 - 15:15	**Green and digital** transition of Europe through innovation	Leveraging **Innovation** from across Europe	Growing and mobilising all **talents**
15:30 - 15:45	★ PLENARY **COVID-19:** Lessons learnt, preparedness and resilience		
16:00 - 16:45	**ERA for HERA:** How can Europe improve its research preparedness and response capabilities?	How can R&I help to leave no one behind in the **post-COVID-19 recovery?**	**Scientific breakthroug…** as opportunit… address socie… emergencies
17:00 - 18:00	★ PLENARY Towards a **European Strategy for Universities:** Bridging education, research, innovation and service to society		

#RiDaysEU
@EUScienceInnov

[!] DO NOT FORGET
[!] BE INSPIRED
[!] FIND ASSISTANCE
[!] FIND PARTNERS
[!] GET INVOLVED

EUROPEAN RESEARCH & INNOVATION DAYS

DRAFT PROGRAMME VIRTUAL EVENT

23/24 JUNE 2021

WORKSHOPS

Dive into dedicated workshops to discuss about research and innovation with other participants from across Europe and beyond. Learn from each other, build new networks and work together to find solutions for our global challenges. Each workshop has a limit of 3000 attendees, so pick up your favourite one and tune in at the right time.

23 JUNE 2021

10:15 - 11:00	Recipe for success: Tips and tricks while writing your **Horizon Europe proposal**	
11:15 - 12:00	The rules of the game: A guided tour of the **Horizon Europe Model Grant Agreement**	
12:15 - 13:00	**Widening** implementation	
13:15 - 14:00	A **social innovation** marketplace	In the spotlight: The voice of **EIT's** young pioneers
14:30 - 15:15	The **Marie Skłodowska-Curie Actions:** Developing talents, advancing research	
15:15 - 16:00	In conversation with the **ERC's Scientific Council**	
16:00 - 16:45	Transformative R&I policy post-COVID-19: **ESIR's** deep dive on building forward better	
16:45 - 17:30	R&I funding goes digital: The **Funding and Tenders portal**	

24 JUNE 2021

08:45 - 09:30	Unleashing **innovation procurement** for health and care	
09:30 - 10:15	**Clean road transport**	
10:15 - 11:00	**Equality** in R&I: From data to action	
11:00 - 11:45	**Metrology** for a globalised, digital and green society	
11:45 - 12:30	Room for a **deliberative and participatory EU?**	
12:30 - 13:15	**Synergies** implementation	
13:30 - 14:15	A **Creativity and Culture-driven** European Innovation ecosystem – this is how we get there!	Researchers' **skills and competencies**
14:30 - 15:15	**Research infrastructures** – hubs of excellence, knowledge creation and innovation	
15:30 - 16:15	**Systemic approaches** towards sustainability transitions: Circular economy as a transversal need	Highlight the **European Year of Rail**
16:15 - 17:00	**Africa** initiative in Horizon Europe	

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European Commission

EUROPEAN RESEARCH & INNOVATION DAYS

DRAFT PROGRAMME VIRTUAL EVENT

24 JUNE 2021

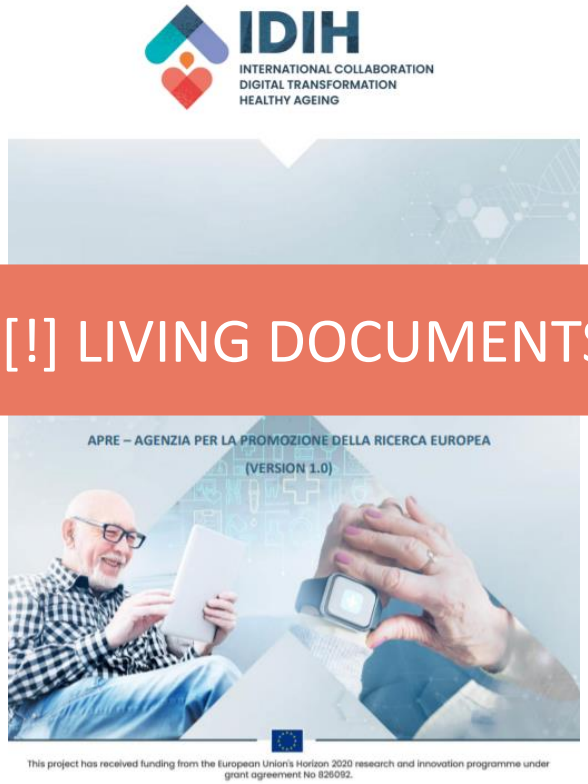
POLICY CONFERENCE

	CHANNEL 1	CHANNEL 2	CHANNEL 3	CHANNEL 4	CHANNEL 5
09:00 - 09:15	★ PLENARY **The new ERA:** Put in motion				
				Working hand in hand with and for **Cohesion in the new ERA**	**Building careers** and being assessed: A challenge for young researchers?
				Regions and local authorities at the forefront of the recovery process	Post-COVID-19 recovery for cities: The **New European Bauhaus** initiative
				Open strategic autonomy: How does it work?	Promoting the **fundamental values** in research and innovation globally
				Smart, inclusive and sustainable **mobility**	**Systemic approaches** towards sustainability transitions: Circular economy as a transversal need

https://ec.europa.eu/research-and-innovation/en/events/upcoming-events/research-innovation-days/programme-day-1

- [Appendix] - More to know about EU Funding Programmes

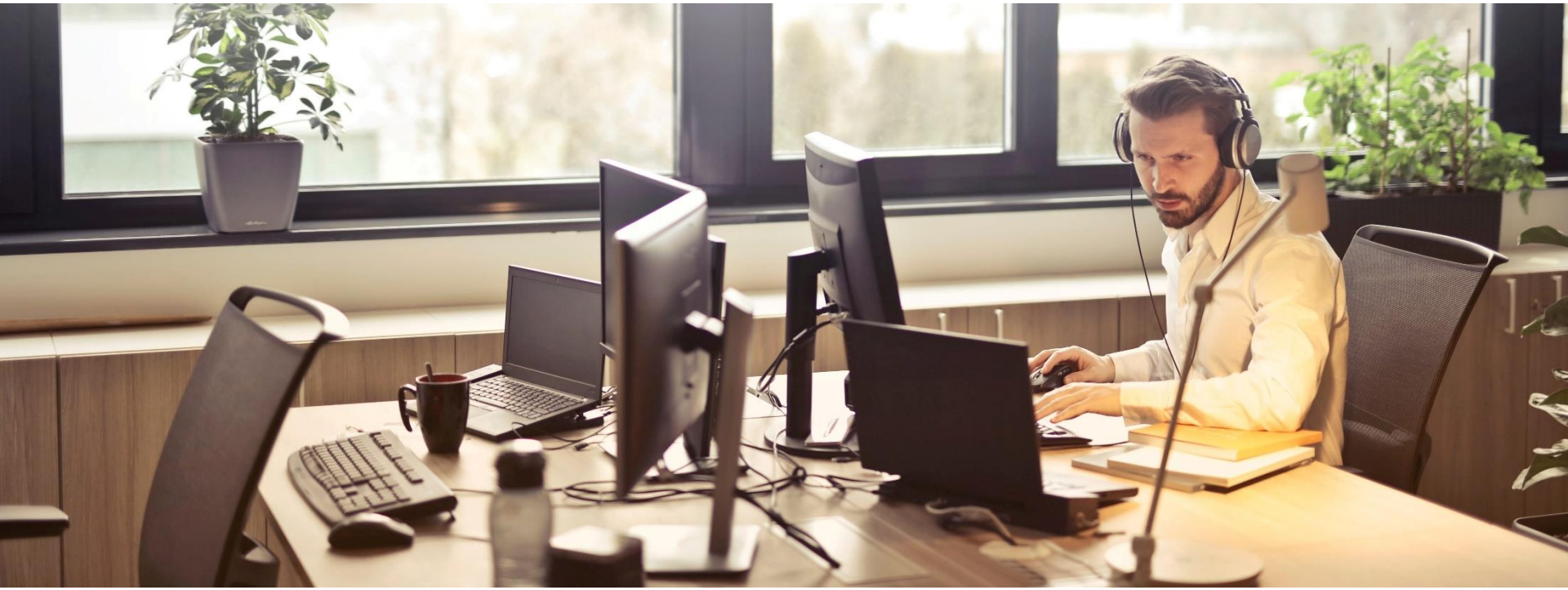
Funding opportunities supporting international cooperation in the field of Digital Health & Active and Healthy Ageing



Project acronym:	**IDIH**
Project title	International Digital Health Cooperation for Preventive, Integrated, Independent and Inclusive Living
Thematic priority	SC1-HCC-03-2018
Type of action	Coordination and Support Action (CSA)
Deliverable number and title:	D2.1 - Guidebook for RDI stakeholders
Version:	1.0
Status:	Public
Author name(s):	Mathilde De Bonis, Bruno Mourenza, Martina De Sole
Reviewer(s):	Hicham Abghay, Steinbeis 2i GmbH
Type:	☒ R – Report ☐ O - Other ☐ E - Ethics
Dissemination level:	☒ PU – Public ☐ CO – Confidential, only for members of the consortium (including the Commission)

[!] LIVING DOCUMENTS

IDIH HELPDESK



idih@apre.it

If you need information and/or assistance on Funding Programmes and Calls that offer opportunities for international cooperation in the field of Digital Health and Active and Healthy Ageing

+39 06 48 93 99 93

please specify the aim of your call:
"Assistance request to the IDIH Helpdesk"

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 826092.

IDIH WEEK 2021

Futurium. A new EU platform to support Active and Healthy Living in the Digital World

Irina Kalderon Libal

Policy Officer

Directorate-General Communications Networks, Content and Technology, European Commission

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 826092.

IDIH WEEK 2021

EU Policies and Programmes supporting international cooperation for Digital Health & AHA - Focus on *Horizon Europe* - *

Martina De Sole

Head of International Cooperation, APRE

Mathilde De Bonis

Project Manager, APRE

*sources: EC; IDIH; APRE

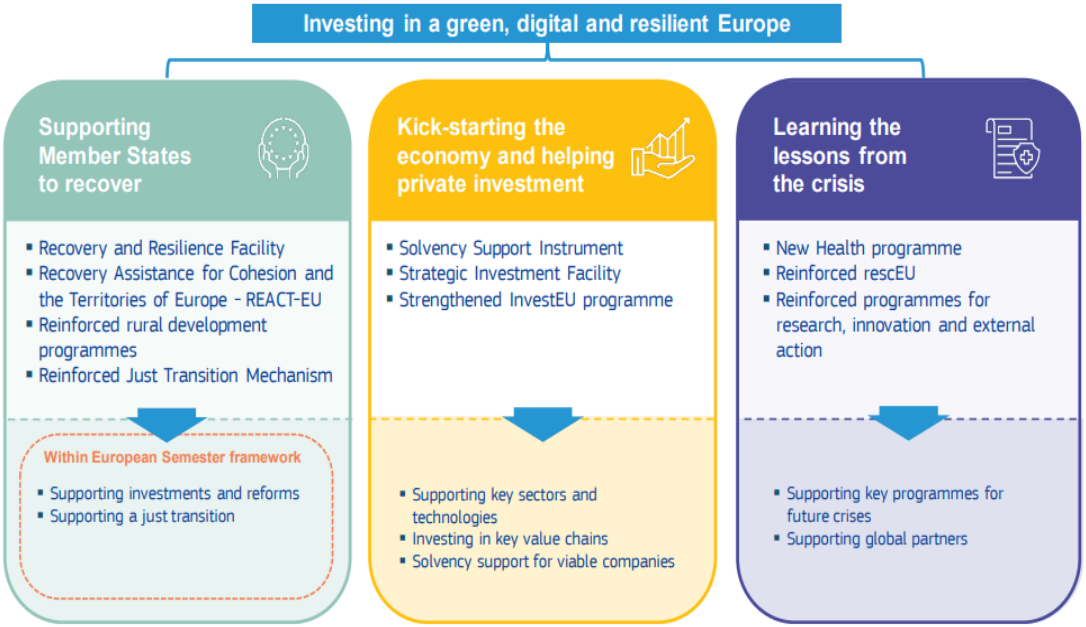
Understanding the landscape for Research and Innovation in the EU

Towards a “human economy”, capable of protecting citizens against the great risks of life, offering stability and an exit-strategy to absorbs shock by the means of innovation, growth and fair competition.

- a stronger **European “Health” Union** in which to support the EU capacity and readiness to respond to cross-border health threats and emergencies

NextGenerationEU

to invest in a green, digital and resilient Europe



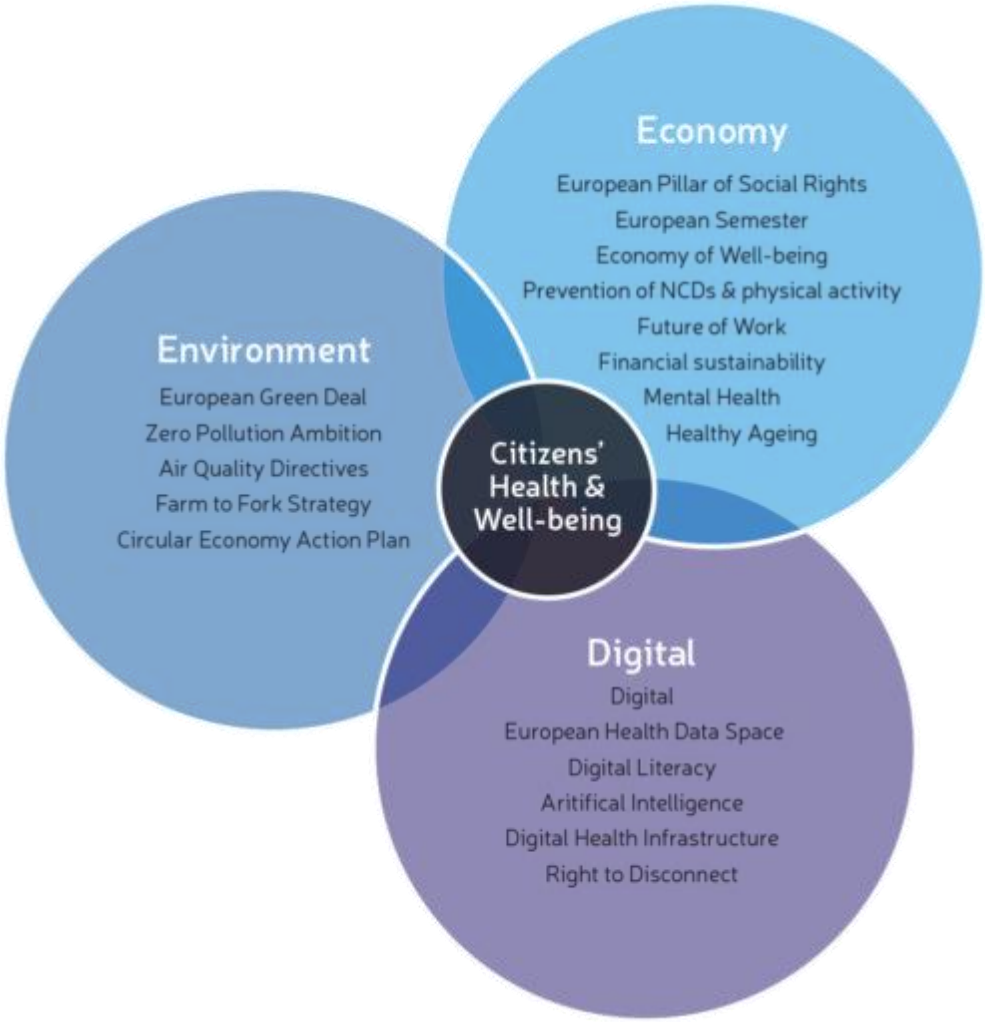
Source: European Commission

Digital Health for AHA

EU policy priorities and R&I opportunities

Shaping Europe's digital future is one of the goal of the European Commission that want a Europe fit for the digital age, in order to boost business development and enable citizens to reap new benefits, among which improved diagnosis and better public services in health and care

- The **health and well-being** of its people, indeed, is a central aim of the European Union, its policies and programmes. Providing **timely access to affordable, preventive and curative health care** of good quality to everyone is amongst the key aspirations the EU and its Member States



All Policies for a Healthy Europe: an intersectoral initiative
(source: https://healthyeurope.eu/)

Digital Health and AHA

The EU commitment at international level

- **UN SDG 3** – Ensure healthy lives and promote well-being for all at all ages
- **WHO : a global strategy on Digital Health 2020 – 2024**

  The purpose of this global strategy is to strengthen health systems through the application of digital health technologies for consumer/people, healthcare providers towards achieving the vision of health for all.

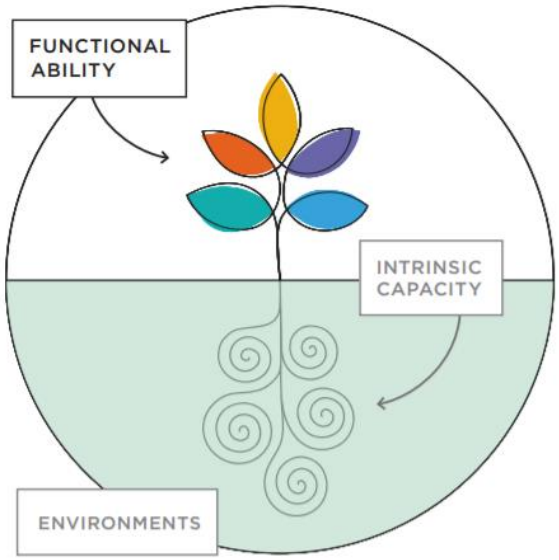
Digital Health and AHA

The EU commitment at international level

- **The Decade of Healthy Ageing 2021-2030:**

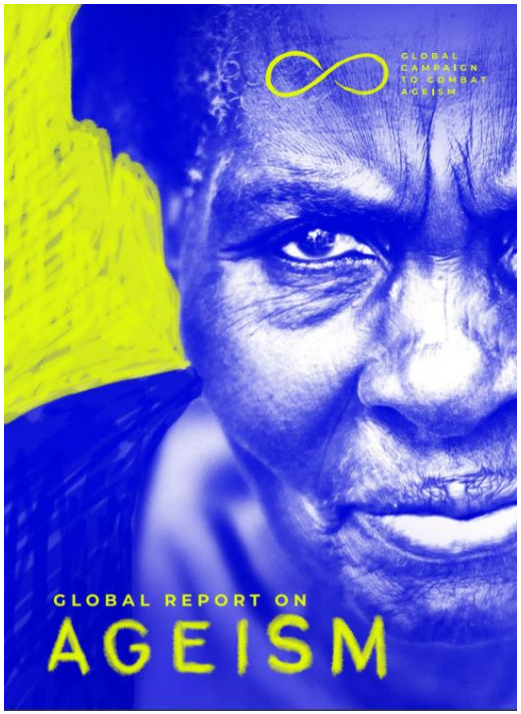
The Baseline Report addresses five issues:

1. Introduces Healthy Ageing, the Decade's actions and enablers, and a pathway to accelerate impact by 2030.
2. Where are we in 2020? The report provides a first-time baseline for healthy ageing worldwide.
3. What improvements could we expect by 2030? It documents progress and scenarios for improvement.
4. How can we accelerate impact on the lives of older people? It shows how older people and stakeholders can together optimize functional ability.
5. The next steps including opportunities to boost collaboration and impact by 2023, the next reporting period.



DECADE OF HEALTHY AGEING
BASELINE REPORT

World Health Organization



Published on March 2021

Digital Health and AHA

Relevant EU policies

- **The Pillar of Social Rights**

Under Chapter III: Social protection and inclusion, several points concern AHA:

15**. Old age income and pensions: (…) **Everyone in old age has the right to resources that ensure living in dignity.

16**. Health care: **Everyone has the right to timely access to affordable, preventive and curative health care of good quality.

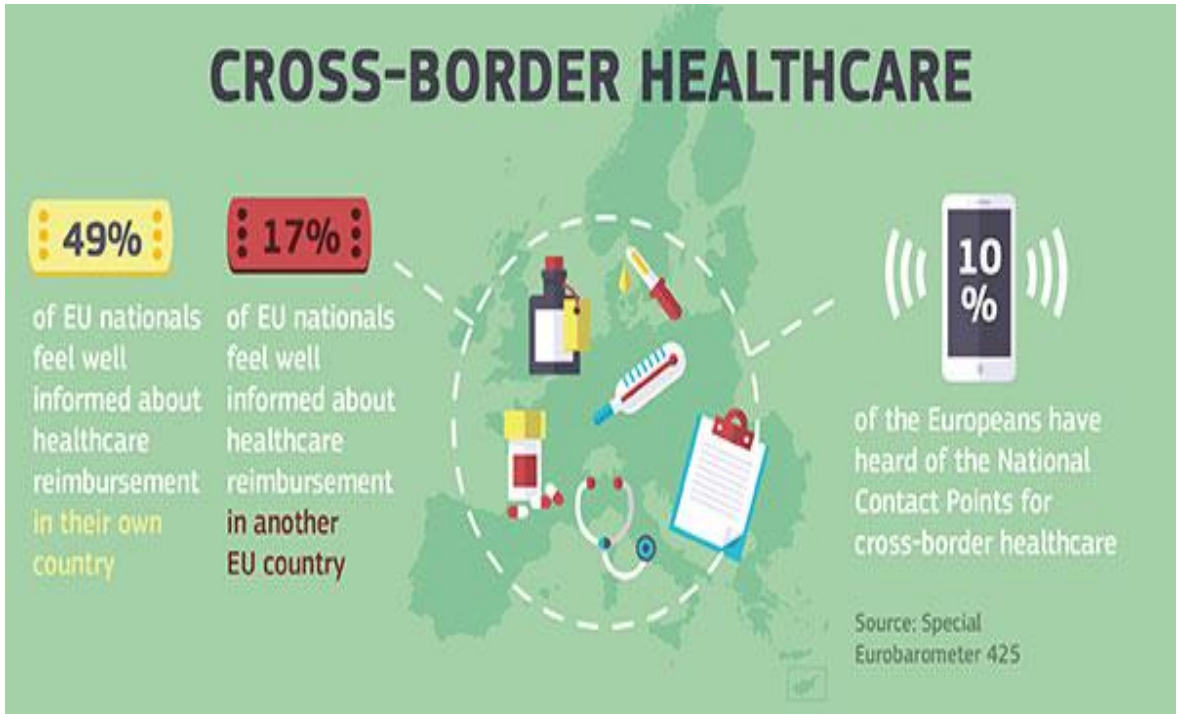
***18**. **Long-term care**: Everyone has the right to affordable long-term care services of good quality, in particular home-care and community-based services.*

Digital Health and AHA

Relevant EU policies

- **Directive 2011/24/EU on patients' rights in cross-border healthcare**

It sets out the conditions under which a patient may travel to another EU country to receive medical care and reimbursement. It covers healthcare costs, as well as the prescription and delivery of medications and medical devices, enhancing e-health.

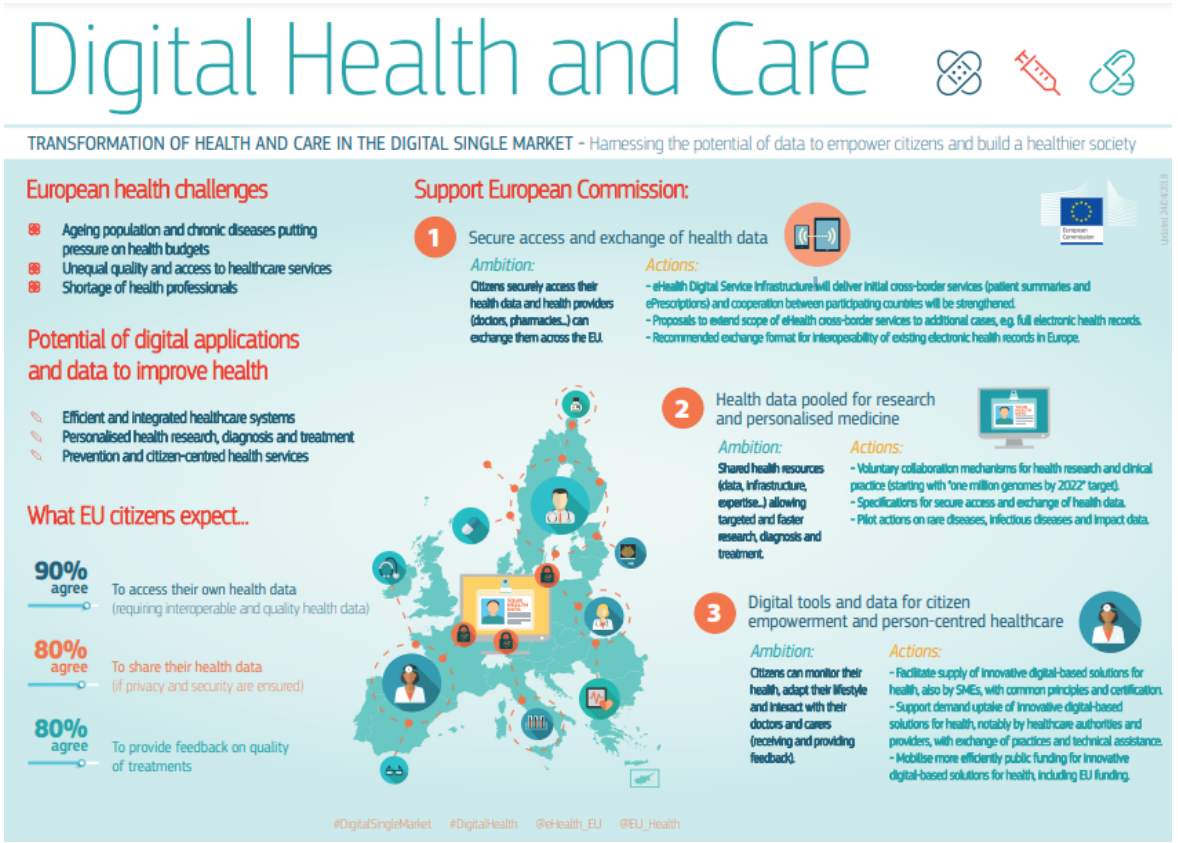


A 2018 European Commission report (available in all EU languages) and its annex covers the key provisions, trends and progress to date in the last reporting period (2015-2018).

Digital Health and AHA

Relevant EU policies

- **The Digital Single Market (DSM):** enhancing the use of digital technology through the creation of a Digital Single Market.
- **2018 - Communication on Digital Transformation of Health and Care in the Digital Single Market** empowering citizens and building a healthier society.

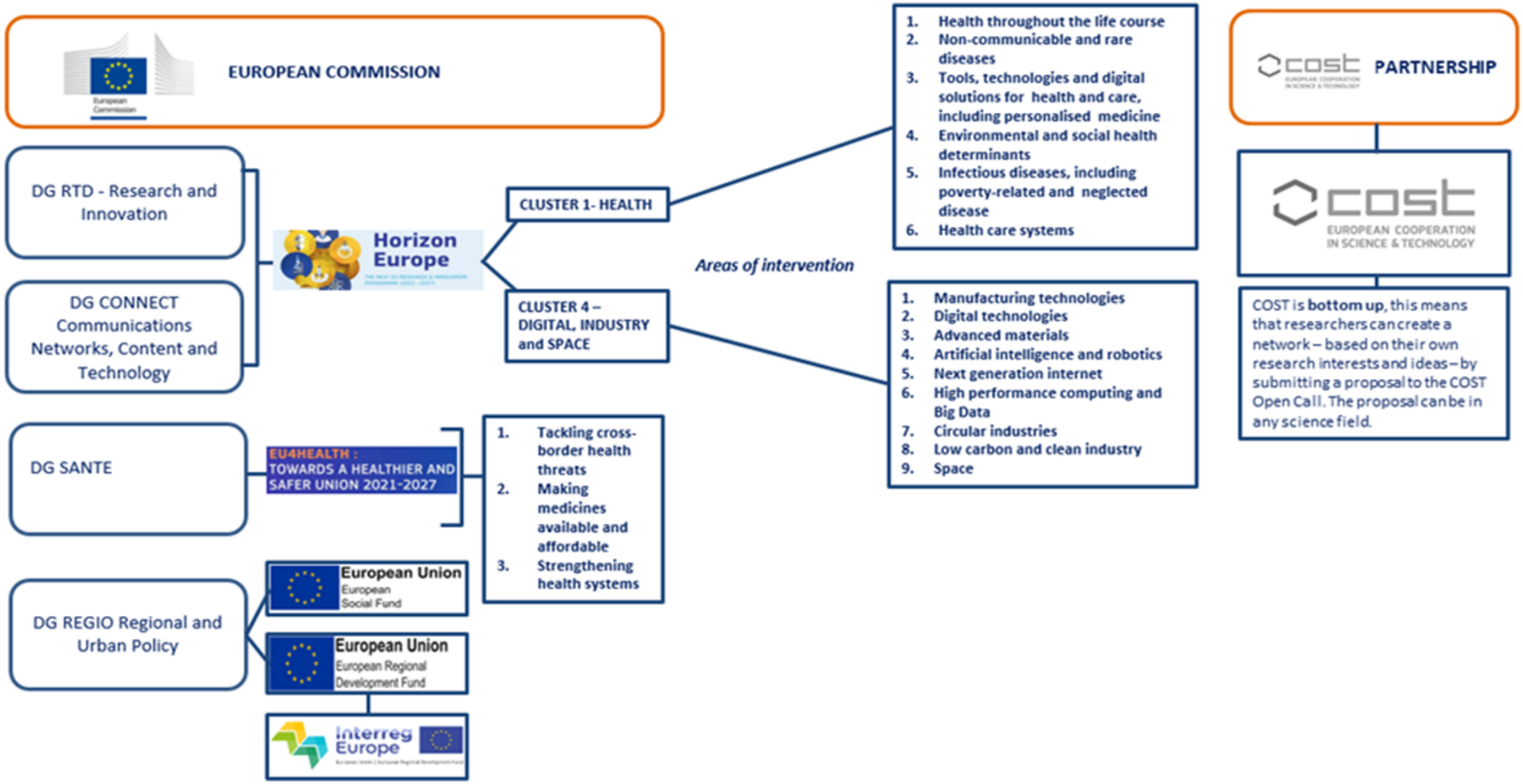


PILLAR 1 - Secure data access and sharing

PILLAR 2 - Connecting and sharing health data for research, faster diagnosis and improved health

PILLAR 3 - Strengthening citizen empowerment and individual care through digital services

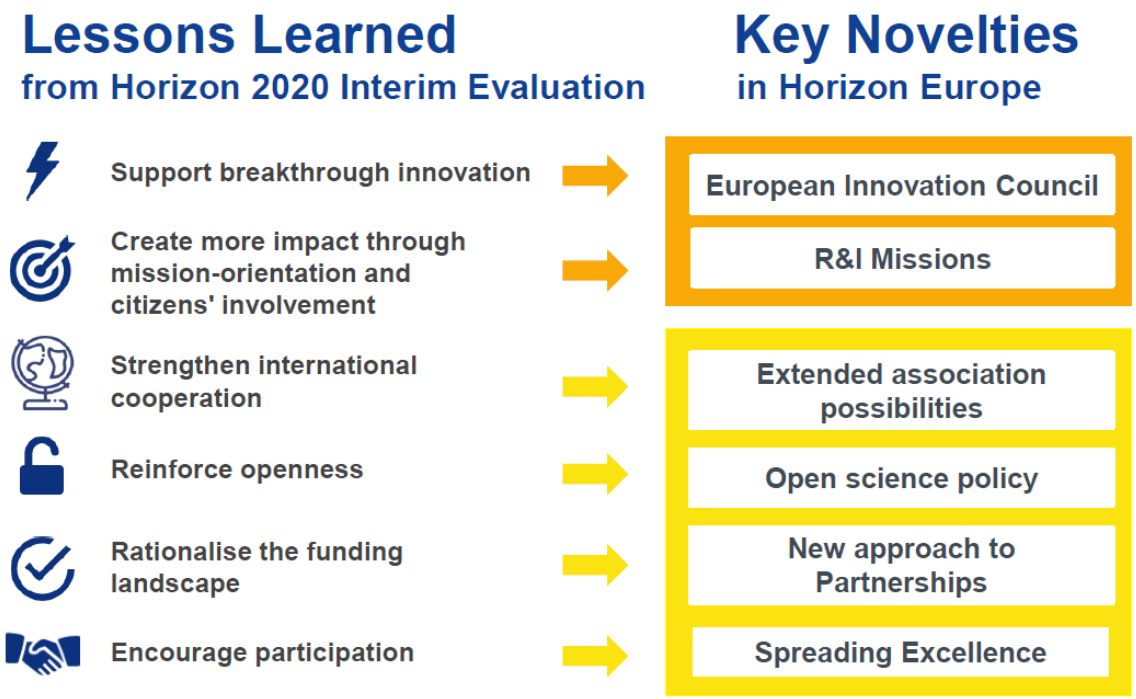
EU Funding Programmes supporting International Cooperation in the field of Digital Health for AHA



EU Funding Programmes supporting International Cooperation in the field of Digital Health for AHA

From Horizon 2020 to **Horizon Europe**

- The EU Framework Programme for Research and Innovation



HORIZON EUROE
The vision of the European Commission

Invest in R&I to shape our future

- Tackling **climate change** (35 % budgetary target)
- Helping to achieve **Sustainable Development Goals** and the political priorities of the European Commission
- Boosting the **Union's competitiveness and growth**, because Europe is not yet transforming its leadership in science, into leadership in innovation and entrepreneurship

HORIZON EUROPE

The objectives of the ambitious EU framework programme for Research & Innovation (2021-2027)

strengthen the EU's scientific and technological bases and the European Research Area (ERA)

boost Europe's innovation capacity, competitiveness and jobs

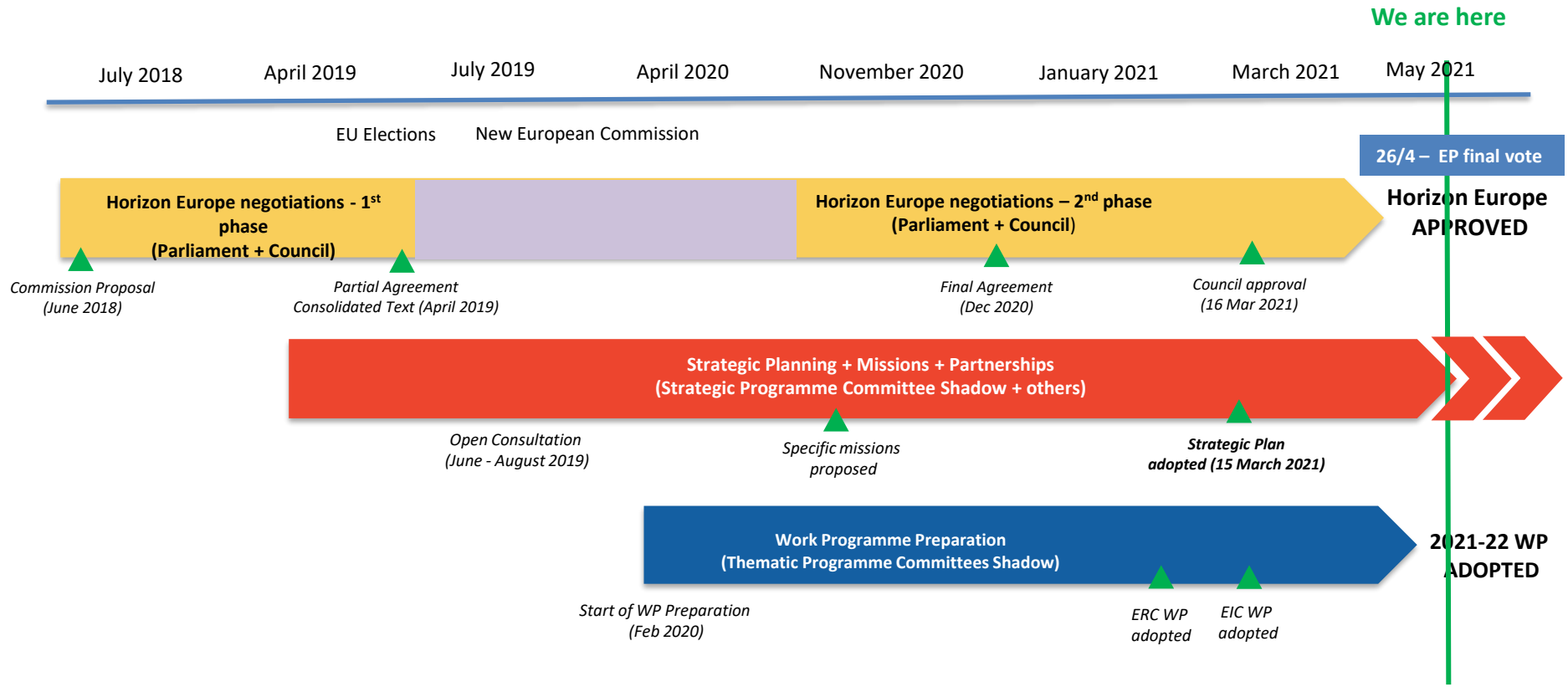
deliver on citizens' priorities and sustain our socio-economic model and values

SCIENCE

ECONOMY

SOCIETY

HORIZON EUROPE
Towards the first Call for Proposals 2021-2022



HORIZON EUROPE
Structure and budget 2021-2027

Pillar 1
Excellent Science

- European Research Council
- Marie Skłodowska-Curie Actions
- Research Infrastructures

Pillar 2
Global Challenges and European Industrial Competitiveness

Cluster
- Health
- Culture, Creativity and Inclusive Society
- Civil Security for Society
- Digital, Industry and Space
- Climate, Energy and Mobility
- Food, Bioeconomy, Natural Resources, Agriculture and Environment

Joint Research Centre

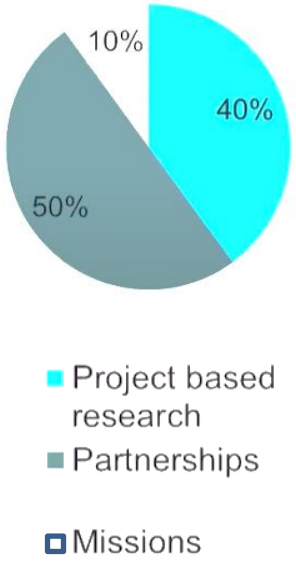
Pillar 3
Innovative Europe

- European Innovation Council
- European innovation ecosystems
- European Institute of Innovation and Technology

Widening Participation and Strengthening the European Research Area

- Widening participation and spreading excellence
- Reforming and Enhancing the European R&I system

~ € 95,5 billion



HORIZON EUROPE
International cooperation opportunities

International Cooperation

International Cooperation

Tackling together global societal challenges; access to the world's best talents, expertise and resources; enhanced supply and demand of innovative solutions

Extended openness to association

- Third countries with good capacity in science, technology and innovation
- Taking into account objective of driving economic growth in Europe through innovation

- General opening for international participation
- Intensified targeted actions (flagship initiatives, joint calls, etc.)

May 2019 | Version 25

European Commission

Horizon Europe, as its predecessor Horizon 2020 is **Open to the World**. This means that participants from all over the world, regardless of their place of establishment or residence, can participate in most of the calls of Horizon Europe. Furthermore, in many cases, the EU will fund at least partly the participation of the international partners

HORIZON EUROPE
International cooperation opportunities

The Framework Program **Association Agreement** is the strongest collaboration tool with a third country in the R&I sector: entities established in associated countries are subject to participation and funding rules that are very similar to entities established in member countries.

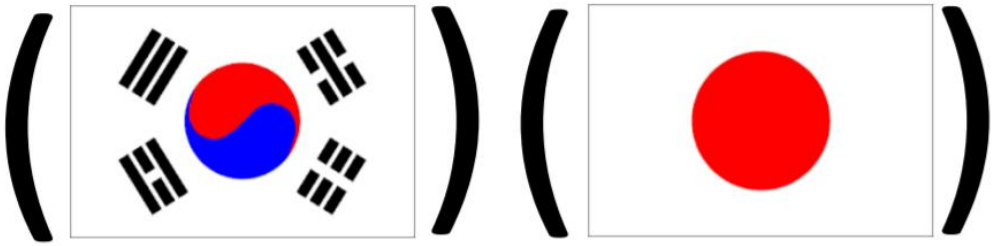
HORIZON EUROPE
International cooperation opportunities

- General Annex WP *"…For the purposes of the eligibility conditions, **applicants established in Horizon 2020 Associated Countries will be treated as entities established in an Associated Country**, subject to the applicability of the association agreements under Horizon Europe." For Countries Associated with H2020: Negotiations started, it is expected to finish the process by the end of the year and to be able to include them in the first calls.*
- Model ***pay as you go**: contributions from associated countries should be allocated to finance the topics in which they are most successful*

Status of the Association

Potential Associated Countriies

1



2 2

Negotiation started with Canada only

HORIZON EUROPE
International cooperation opportunities

2 BASIC PRINCIPLES

1. General Openness:

Horizon Europe is fully open to participation from all over the world

2- Targeted Actions

- *R&I projects with participation from Third countries is required*
- *Softer form of cooperation such as networking between projects*
- *Joint initiatives*

Automatic Funding

- *Member States (including overseas departments and overseas territories)*
- *Associated Countries*
- *Emerging Economies and Developing Countries (link not yet available)*

HORIZON EUROPE
International cooperation opportunities

International participation is targeted in numerous topics

- Specific topics in calls for proposals may:
  - indicate that participation of international partners is encouraged
  - indicate that participation of partners from a certain country or region is encouraged or even mandatory

Targeted Opening

CHECK THE WORK PROGRAMMES

HORIZON EUROPE
International cooperation opportunities

How can you participate in Horizon Europe?

There are two ways to participate:

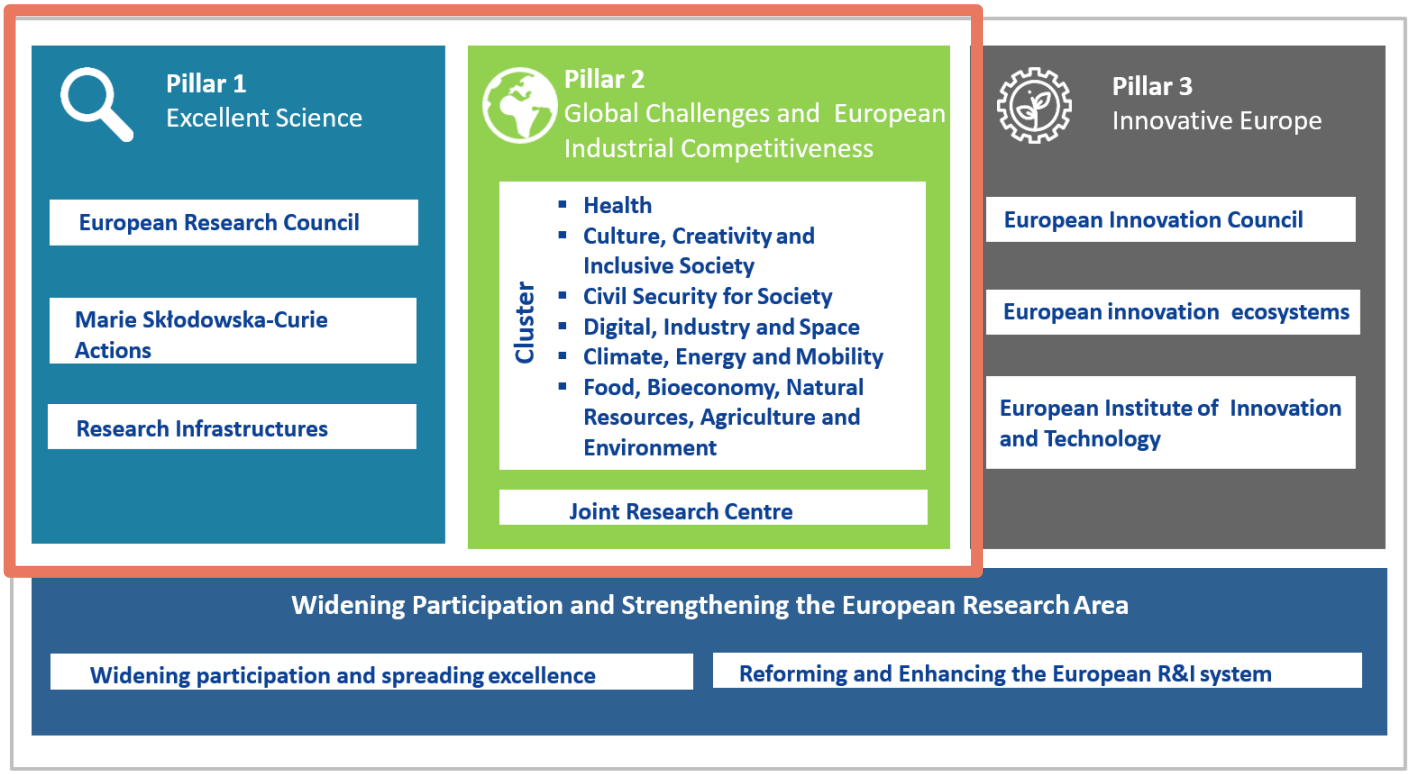
- There is **funding for individual researchers**

  Researchers of **all nationalities** are welcome to participate

- There is **funding for collaborative research**

  Together with at least 3 entities from 3 different countries of the EU or from Countries Associated to Horizon Europe (at least one from a Member State)

HORIZON EUROPE
International cooperation opportunities



HORIZON EUROPE
Specific Objectives of Pillar 1 & 2

PILLAR 1 | EXCELLENT SCIENCE

- to develop, promote and advance scientific excellence, support the creation and diffusion of **high-quality new fundamental and applied knowledge, skills, technologies and solutions, training and mobility of researchers**, attract talent at all levels and contribute to full engagement of Union's talent pool in actions supported under this Programme; **bottom up** (also individual researchers)

PILLAR 2 | GLOBAL CHALLENGES AND EUROPEAN INDUSTRIAL COMPETITIVENESS

- to **generate knowledge, strengthen the impact of research and innovation in developing**, supporting and implementing Union policies and support the access to and uptake of innovative solutions in European industry, notably in SMEs, and society to address global challenges, including climate change and the Sustainable Development Goals; **top down** (collaborative projects)

ONE PROGRAMME, TWO APPROACHES:

Bottom-up: it concerns those funding schemes that are open to any R&I idea and topic from the applicants.

Top-down: it concerns those funding schemes in which applicants are asked to respond exactly to the topic described by the EC Commission Work Programme.

HORIZON EUROPE | PILLAR 1

International cooperation opportunities in the field of Digital Health & AHA

- The Marie Skłodowska-Curie Actions (MSCA) represent the main program of the European Union dedicated to **doctoral and post-doctoral training**.
  - MSCAs support excellence research in different ways, from rewarding the profile of the researcher, her/his collaborations and the exchange of knowledge, but also the quality and methodology of the research.
- MSCAs are based on the principle of **physical mobility**: the researchers who receive the funding must move from one country to another to develop their research career by acquiring new knowledge and skills.

MARIE SKŁODOWSKA-CURIE ACTIONS

Research Fellowship Programme

The actions are characterized by **a bottom-up approach**

The next calls under Horizon Europe will concern the schemes:

- **Postdoctoral scholarships:** invitation to support research and postdoctoral careers (**Deadline: September 15, 2021)**
- **Doctoral Networks:** call for the training of innovative doctoral students **(Deadline: November 16, 2021**)

HORIZON EUROPE | PILLAR 1

International cooperation opportunities in the field of Digital Health & AHA

- The European Research Council (ERC) funds **excellent researchers of any age and nationality** who intend to carry out **"frontier" research** activities in the Member States or associated countries.
- The main objective is to support scientific excellence and enhance the dynamism and creativity of frontier European research, supporting the work of the best researchers **in all scientific, technical and academic fields**.

erc European Research Council

The actions are characterized by **a bottom-up approach**

The **next 2021 calls** under Horizon Europe will concern the scheme:

- **Advanced Grant (AdG)** – It enables outstanding and experienced research leaders of all ages and nationalities to carry out innovative, high-risk projects that can open new perspectives for their fields of research and other sectors. Researchers must be scientifically independent, active in research for the past decade and have a profile that identifies them as leaders in their respective research field. **Funding can reach 2.5 million euros per single project for a maximum duration of 5 years.**

HORIZON EUROPE | PILLAR 1

International cooperation opportunities in the field of Digital Health & AHA

- The European Research Council (ERC) funds **excellent researchers of any age and nationality** who intend to carry out **"frontier" research** activities in the Member States or associated countries.
- The main objective is to support scientific excellence and enhance the dynamism and creativity of frontier European research, supporting the work of the best researchers **in all scientific, technical and academic fields**.

erc European Research Council

The actions are characterized by **a bottom-up approach**

The **next 2022 calls** under Horizon Europe will concern the schemes:

- **Synergy Grant (SyG) -** intended for groups consisting of a minimum of two and a maximum of four Principal Investigators (PIs), each one may have its own research group. **Funding can reach 10 million euros per single project for a maximum duration of 6 years.** [Call opening 2022: July 2021; Call closing: November 2021]
- **Proof of Concept (PoC) -** Aims to ensure the link between basic research and the market. The scheme is aimed at researchers who have already obtained ERC funding. It is aimed at researchers already awarded an ERC grant, who have a project still in progress or completed no more than 12 months from the date of publication of the call. **The beneficiaries have access to a contribution of 150 thousand euros for 18 months.** [Call opening 2022/1: July 2021; Call closing: October 2021]

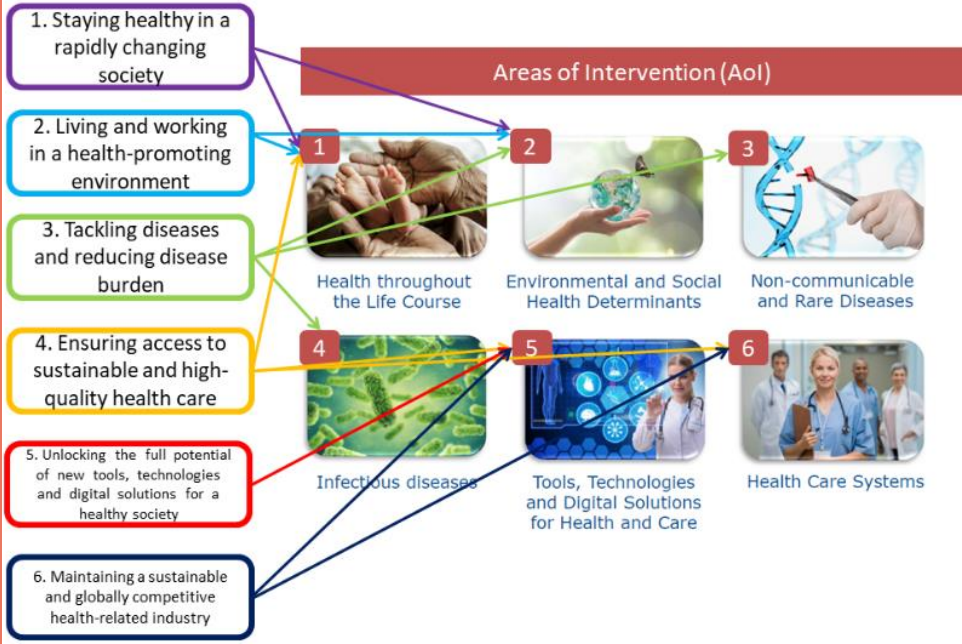
HORIZON EUROPE | PILLAR 2

International cooperation opportunities in the field of Digital Health & AHA

- Improving and protecting the **health of citizens at all ages**, by developing innovative solutions to **prevent, diagnose, monitor, treat and cure diseases**; mitigating health risks, protecting populations and promoting good health; making **public health systems** more cost-effective, equitable and sustainable; and supporting and enabling **patients' participation and self-management**.

CLUSTER 1 | Health

The actions are characterized by a **top-down approach**



HORIZON EUROPE | PILLAR 2

International cooperation opportunities in the field of Digital Health & AHA

- Improving and protecting the **health of citizens at all ages**, by developing innovative solutions to **prevent, diagnose, monitor, treat and cure diseases**; mitigating health risks, protecting populations and promoting good health; making **public health systems** more cost-effective, equitable and sustainable; and supporting and enabling **patients' participation and self-management**.

CLUSTER 1 | Health

The actions are characterized by a **top-down approach**

- **Only collaborative projects are eligible**
- **Interdiciplinarity** and **intersectoriality** are required, harnessing the combined skills of academia and industry in collaboration with the health services, patients, policy-makers and citizens. This will allow to better uptake results in clinical practice as well as in health care systems.
- **Personalised Medicine and Digitalization** are considered as transversal aspects across the Cluster destinations.

HORIZON EUROPE | PILLAR 2

International cooperation opportunities in the field of Digital Health & AHA

- Reinforcing capacities and securing Europe's sovereignty in **key enabling technologies for digitization and production**, and in **space technology**, to build a competitive, digital, low-carbon and circular industry; ensure a sustainable supply of raw materials; and provide the basis for advances and innovation in all global societal challenges

CLUSTER 4 | Digital, Industry and Space

The actions are characterized by a **top-down approach**

- **Only collaborative projects are eligible**

Among the domains identified for international cooperation:

- **Common standards and interoperability**, including in the regulatory context of manufacturing technologies, digital technologies and Artificial Intelligence (focussed on ethics and data).

HORIZON EUROPE | PILLAR 2
Relevant upcoming opportunities

European Commission

HEALTH Destination 1 – Staying healthy in a rapidly changing society

Call 1.1 – Staying healthy (2021)

CSA 1.1 Supporting digital empowerment and health literacy – Healthy citizens 2.0

Call 1.2 – Staying healthy (2022)

Topic 1.4 The Silver Deal: "A comprehensive engagement on the challenges of the ageing population"

HEALTH Destination 4 – Ensuring access to innovative, sustainable and high-quality health care

- **Call 4.1 – Ensuring access to innovative, sustainable and high-quality health care (2021)**
  - Data-driven decision-support tools for better health and care delivery and policy-making
- **Call Partnerships in Health 2022**
  - European Partnership on Transforming Health and Care Systems

HEALTH Destination 6 – Maintaining an innovative, sustainable and globally competitive health-related industry

- **Call 6.1 – A competitive health-related industry (2021)**
  - Promoting a trusted mHealth label in Europe: uptake of Technical specifications for "Quality and Reliability of Health and Wellness Apps"
- **Call 6.2 – A competitive health-related industry (2022)**
  - CSA 6.2 Setting up a 'European Smart Health Innovation Hub'
  - CSA 6.3 Setting up a European Electronic Health Record Exchange Format Ecosystem

TO BE PUBLISHED ON JUNE 22

Some upcoming opportunities for collaborative research in the field of Digital Health & Ageing, concern the following domains:

- Digital literacy
- AI tools for diseases prevention

Calls for proposals in 2021 will open on May 26 and will close on September 21 2021.

Cluster HEALTH

Some upcoming opportunities for collaborative research in the field of Digital Health & Ageing, concern the following domains:

- Health Data Management
- Quantum Technology (this latter, especially dedicated to Canadian partners)

Cluster DIGITAL, INDUSTRY AND SPACE

HORIZON EUROPE | MISSION *CANCER*

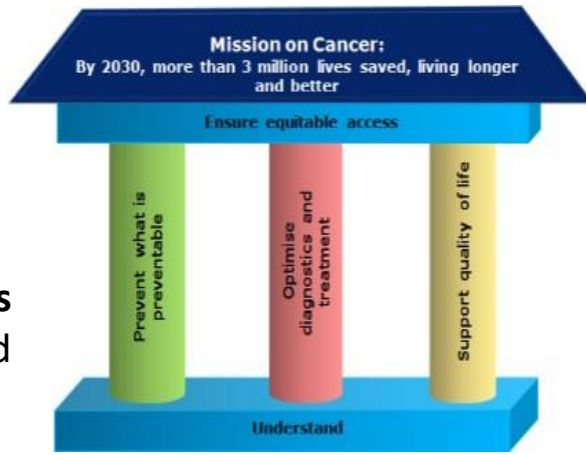
International cooperation opportunities in the field of Digital Health & AHA

13 recommendations

Conquering Cancer: Mission Possible

Targeted by 2030: **more than 3 million lives saved, living longer and better**: achieve a thorough **understanding** of cancer, **prevent** what is preventable, optimise **diagnosis and treatment**, support the **quality of life** of all people exposed to cancer, and ensure **equitable access** to the above across Europe.

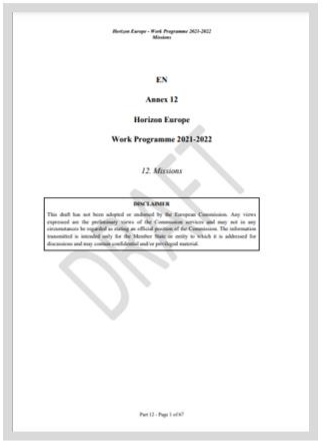
- Appointed **mission managers** and vice-
- Assessment criteria for the **implementations plans** that should be presented in June 2021



Updated EC website : https://ec.europa.eu/info/horizon-europe/missions-horizon-europe_en

MISSIN CANCER | News

Call	Budgets (EUR million)	Deadline(s)
	2021	
HORIZON-MISS-2021-UNCAN-01	3.00	09 Sep 2021
Overall indicative budget	3.00	


Horizon Europe - Work Programme 2021-2022
Missions

EN

Annex 12

Horizon Europe

Work Programme 2021-2022

12. MISSIONS

DISCLAIMER

This draft has not been adopted or endorsed by the European Commission. Any views expressed are the preliminary views of the Commission's services and may not in any circumstances be regarded as stating an official position of the Commission. The information transmitted is intended only for the Member State or entity to which it is addressed for discussions and may contain confidential and/or privileged material.

DRAFT

Part 12 - Page 1 of 67

Mission: Cancer 1

Call - Preparing UNCAN.eu, a European initiative to understand cancer 17

Conditions for the Call 17

HORIZON-MISS-2021-UNCAN-01-01: Preparing UNCAN.eu, a European initiative to understand cancer 18

- *Europe-wide platform building on current researches & innovations*
- *Investing in new models and technologies interrogating the interactions of cancer and their host as a first approach*
- *Integration with longitudinal patient data, samples and biomarkers for identification and translation to patient benefits.*

APRE

HORIZON EUROPE | EU PARTNERSHIPS
International cooperation opportunities in the field of Digital Health & AHA

EU PARTNERSHIPS | HEALTH

- **Institutionalised Partnerships:**
  - Innovative Health Initiative (2021) (ex-IMI2)
  - European Partnership for EU-Africa Global Health (2021) (ex-EDCTP2)
- **Co-funded Partnerships:**
  - European Partnership for the Assessment of Risks from Chemicals (PARC) (2021)
  - European Partnership Fostering an ERA for Health research (2022)
  - European Partnership on Transforming Health and Care Systems (2022)
  - European Partnership for Personalised Medicine (2023)
  - European Partnership on Rare Diseases (2024)
  - European Partnership for One Health/AMR Antimicrobial Resistance (AMR) (2024/25)

Draft proposals of the candidates for European Partnerships in Health:

https://ec.europa.eu/info/horizon-europe/european-partnerships-horizon-europe/candidates-european-partnerships-health_en

APRE

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 826092.

IDIH WEEK 2021

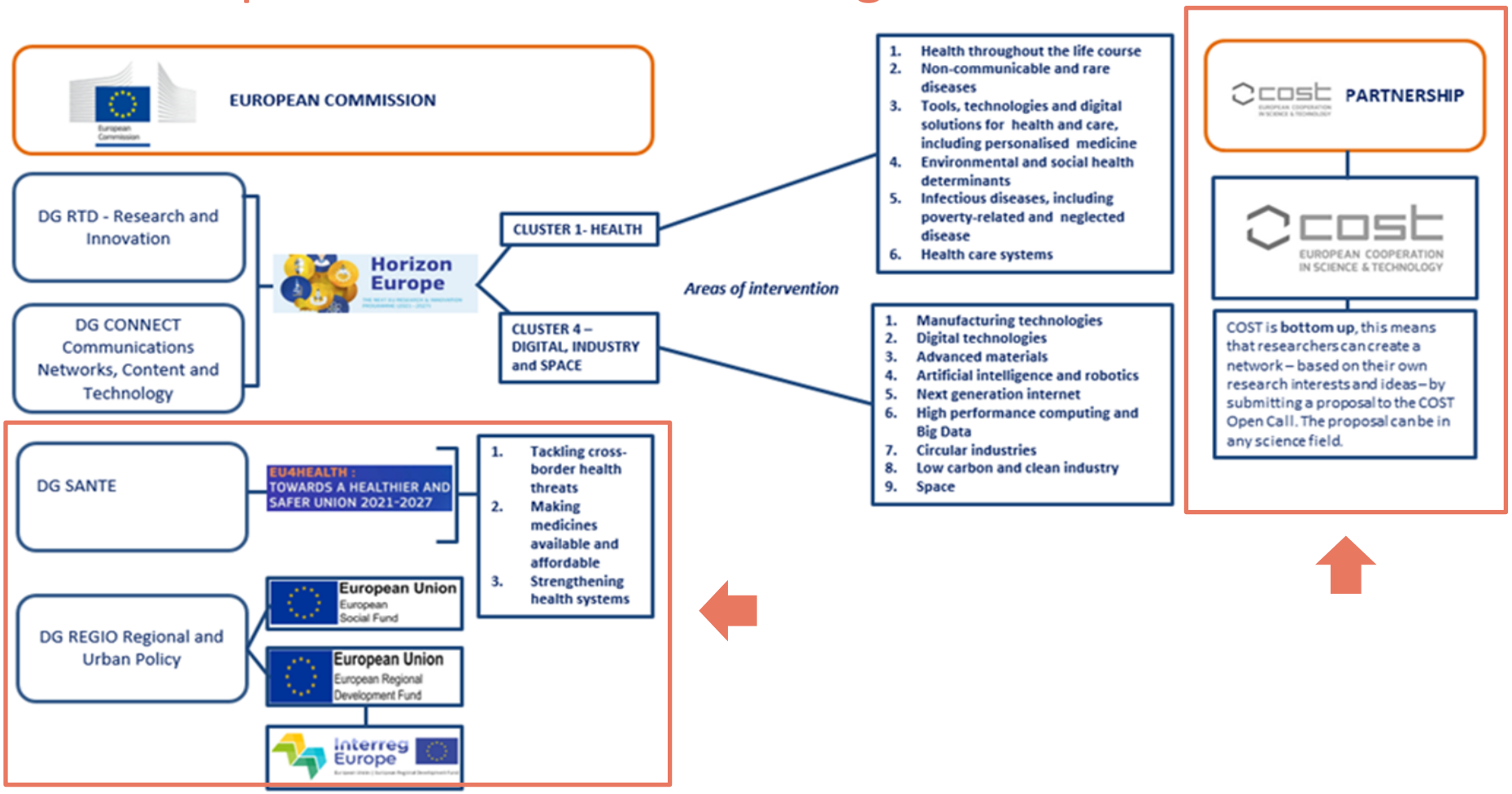
EU Policies and Programmes supporting international cooperation for Digital Health & AHA
- Other relevant EU Programmes - *

Mathilde De Bonis

Project Manager, APRE

*sources: EC; IDIH; APRE

EU Funding Programmes supporting International Cooperation in the field of Digital Health for AHA



EU Funding Programmes supporting International Cooperation in the field of Digital Health for AHA

WHAT

COST is a funding organisation for the creation of research networks, called **COST Actions**. These ***networks*** offer an open space for collaboration among scientists across Europe (and beyond) and thereby give impetus to research advancements and innovation.

COST funding intends to complement national research funds, as they are exclusively dedicated to cover collaboration activities, such as ***workshops, conferences, working group meetings, training schools, short-term scientific missions, and dissemination and communication activities***.

HOW

COST | Main features

- COST is ***bottom-up***, this means that researchers can create a **network** – based on their own research interests and ideas – by submitting a proposal to the COST Open Call. *The proposal can be in any science field.* COST Actions are highly interdisciplinary and open.
- It is possible to **join on-going Actions**, which therefore keep expanding over the funding period of four years.
- **Actions** are multi-stakeholder, often involving the private sector, policymakers as well as civil society.

EU Funding Programmes supporting International Cooperation in the field of Digital Health for AHA

WHO

A COST Action is open to all:

- **science and technology fields** (including trans-, and interdisciplinary, new and emerging fields);
- **institutions** (academia, public institutions, SME/industry, NGO, European/international organisations, etc.);
- **career stages** (both young and experienced);
- COST Members

All the rules for participation in and implementation of COST activities are available here.

Non-COST Members are spread across the Near-Neighbour Countries and International Partner Countries and can join on the basis of mutual benefit.

All the rules for participation in and implementation of COST activities are available here.

EU Funding Programmes supporting International Cooperation in the field of Digital Health for AHA

NEWS

On 25 May 2021, COST's governing board, the Committee of Senior Officials (CSO), confirmed the funding of **40 new COST Actions**, which will start in the Autumn of 2021.

43% of all Actions cover at least two OECD (Organisation for Economic Co-operation and Development) fields of science and technology, while 13% cover at least three fields, clearly highlighting the **multidisciplinary** of the new Actions.
This year, 45% of the main proposers are **women**.

Natural sciences lead the way as the most represented field of science (represented in 45% of the Actions), followed by **engineering and technology** (40%), **medical and health sciences** (25%), social sciences (23%), agricultural sciences (18%) and humanities (8%).

https://www.cost.eu/

EU Funding Programmes supporting International Cooperation in the field of Digital Health for AHA

NEWS

Open Call: A simple one-step application process

Home > Funding > How to get funding > Open Call

Participants are invited to submit COST Action proposals contributing to the scientific, technological, economic, cultural or societal knowledge advancement and development of Europe. Multi- and interdisciplinary proposals are encouraged.

The Open Call Action proposal submission, evaluation, selection and approval (SESA) procedure is fully science and technology-driven and will ensure a simple, transparent and competitive proposal evaluation and selection process, reflecting the bottom-up, open and inclusive principles of COST.

Participants planning to submit a proposal for a COST Action will need to refer to the SESA guidelines and to the Open Call Announcement on the Documents and Guidelines page.

For any questions related to the open call and how to get funding, please contact **opencall@cost.eu**

The next collection date is **29 October 2021 at 12:00 noon (CET).**

Find out how to join an existing COST Action

e-COST

https://www.cost.eu/

EU Funding Programmes supporting International Cooperation in the field of Digital Health for AHA

NEWS

DOCUMENTS & GUIDELINES
https://www.cost.eu/funding/how-to-get-funding/documents-and-guidelines/

How to join an existing COST Action
https://www.cost.eu/cost-actions/how-to-participate/participate-existing-action/

https://www.cost.eu/

EU Funding Programmes supporting International Cooperation in the field of Digital Health for AHA

The EU4Health | represents the EU's response to COVID-19 that impactfully rampaged the economy, society and the healthcare systems worldwide. The program will release its funds for applications in 2021 to EU countries, health organisations and NGOs.

The EU4Health programme has three *general objectives*:

- protecting people in the EU from serious cross-border health threats and **improving crisis management capacity;**
- making medicines, medical devices and other crisis relevant **products, available and affordable** and supporting **innovation;**
- **strengthen health systems and the health care workforce**, including by investing in public health, for instance through health promotion and disease prevention programmes and improving access to healthcare.

Over the next seven years, EU4Health will make € 5.1 billion available to invest in national health systems to **protect European citizens from serious cross-border threats and improve the availability of medicines, medical devices and other emergency products** in the EU. Its budget will be divided as follows:

- Minimum 20% for **health promotion and disease prevention**;
- Maximum 12.5% for procurement to support **national stocks of essential crisis products**;
- Maximum 12.5% for **health cooperation;**
- Maximum 8% for administrative expenses.

WHAT

Crisis preparedness | Disease prevention | Health systems and healthcare workforce | Digital

Cancer

The first Work Program 2021-2022 – with a budget about 316 million euros

EU Funding Programmes supporting International Cooperation in the field of Digital Health for AHA

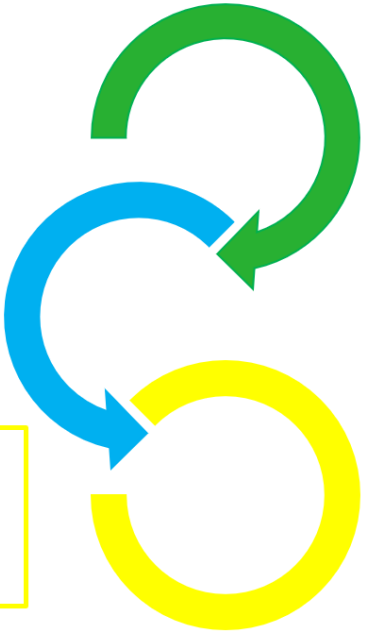
- **Country-specific tailor-made support and advice** to countries, or groups of countries, with the highest needs, through twinning, expert advice and peer support, etc;
- **Training and exchange programmes** for medical and healthcare staff;
- New mechanisms for instance for procurement of goods and services necessary for the **prevention and management of health crises;**
- **Audits**, e.g. of Member States preparedness and response arrangements (such as crisis management, antimicrobial resistance, vaccination) to ensure their effectiveness;
- **Clinical trials** to speed up the development, authorisation and access to innovative, safe and effective medicines and vaccines;
- **Cross-border collaboration and partnerships, including in cross-border regions, with a view to transferring and up scaling innovative solutions, including digital, for instance through the European Reference Networks (ERNs);**
- Setting up and coordination of **Union Reference Laboratories** and **Centres of Excellence**;
- Investment in precursory projects for high-value-added initiatives and in **critical health infrastructure;**
- Deployment, operation and maintenance of **digital service infrastructure**;
- **Analytical activities** such as studies, data collection and benchmarking.

HOW

EU Funding Programmes supporting International Cooperation in the field of Digital Health for AHA

! Natural persons will not be eligible for EU4Health grants

- Any legal entity established in a **member state or overseas territory**
- Any entity created in accordance with European law
- **International organizations**



Any legal entity established in **a third country that is associated** with the program. For non-associated countries, the exceptions will be present in the WPs

Any legal entity mentioned in the WP established in a **third country**, in accordance with the specific rules for the EU4Health Regulation

WHO

EU Funding Programmes supporting International Cooperation in the field of Digital Health for AHA

NEWS

The budget of WP 2021 will be very small compared to that of the following years - for **2022 it is expected at least 900 million**

The first WP will be published more likely in **June**

https://ec.europa.eu/health/funding/key_documents_en

EU Funding Programmes supporting International Cooperation in the field of Digital Health for AHA

INTERREG EUROPE | Main features

- The programme provides co-financing for regional and local institutions, such as public administrations, regional development agencies, educational institutions and others, to create **networks and exchange experiences on different themes, thus generating good regional practice at the European level**.
- Some more experienced networks aim to use previously identified good practices in order to impact positively on their region's immediate development in the given field (capitalisation).

INTERREG EUROPE focuses on four topics[51]:

- Research, technological development and innovation
- Competitiveness of SMEs
- Low carbon economy
- Environment and resource efficiency.

Overall objective of the Interreg Europe 2021 – 2027 programme

To improve the implementation of regional development policies, including Investment for jobs and growth goal programmes, by promoting the exchange of experiences, innovative approaches and capacity building in relation to the identification, dissemination and transfer of good practices among **regional policy actors**.

The Interreg-specific objective 'a *better cooperation governance*' as single programme objective

WHAT

EU Funding Programmes supporting International Cooperation in the field of Digital Health for AHA

- Interreg Europe targets regional policy actors.
  - This target group includes national, regional and local authorities as well as other relevant bodies responsible for the definition and implementation of regional development policies.
- As a general rule the beneficiaries of the programme are **public bodies and bodies governed by public law.**

- **Private non-profit bodies** may also be beneficiaries under certain conditions.
- **Private companies, especially SMEs**, are an important target group in the context of several supported specific objectives and when relevant they are encouraged to participate in the activities of Interreg Europe actions and benefit from the exchange of experience, *although they cannot directly receive EU funding as a beneficiary*.

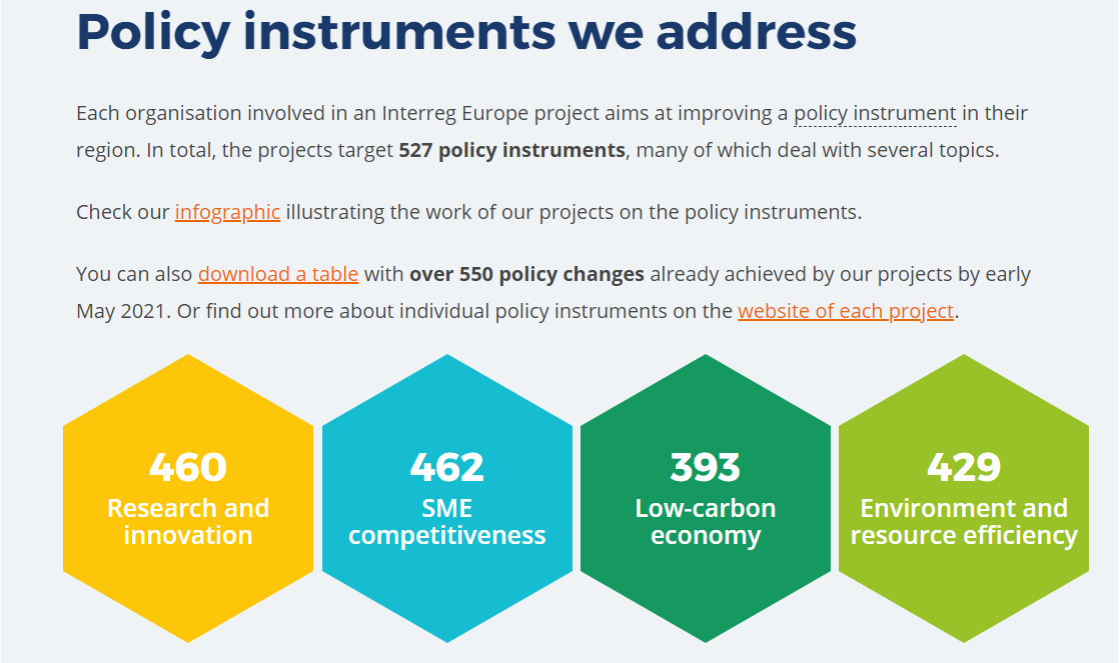
FIND MORE ABOUT | Eligibility for participation in INTERREG EUROPE

- Adding to the above, third countries cannot take part directly in the Interreg Europe programme - countries other than the EU27, Norway, Switzerland and the United Kingdom. **Organisations from third countries can be partners in an Interreg Europe project. However, they cannot be beneficiaries of ERDF funds.**
- For more info, see at this **link**.

WHO

EU Funding Programmes supporting International Cooperation in the field of Digital Health for AHA

- **Cooperation projects** are opportunities for organisations from different countries to work together for 3 to 5 years and exchange good practices on particular policy issues.
- **Policy learning platforms** are spaces for continuous learning which organisations dealing with regional development in Europe can access.



Source: https://www.interregeurope.eu/about-us/facts-and-figures/

HOW

Interreg Europe

European Union | European Regional Development Fund

NEWS

Regional development investments will strongly focus on objectives 1 and 2. 65% to 85% of ERDF and Cohesion Fund resources will be allocated to these priorities, depending on Member States' relative wealth.

- **[1] Smarter Europe**, through innovation, digitisation, economic transformation and support to small and medium-sized businesses
- **[2]** a **Greener, carbon free Europe**, implementing the Paris Agreement and investing in energy transition, renewables and the fight against climate change
- a more **Connected Europe**, with strategic transport and digital networks
- a more **Social Europe**, delivering on the European Pillar of Social Rights and supporting quality employment, education, skills, *social inclusion and equal access to healthcare*
- a **Europe closer to citizens**, by supporting locally-led development strategies and sustainable urban development across the EU.

draft version of the Interreg Europe cooperation programme for 2021-2027

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 826092.

IDIH WEEK 2021

China. Policies and Programmes supporting international cooperation for Digital Health & AHA

Jie Wang

Vice President, S2HC-CAGG

What have happened in recent years?

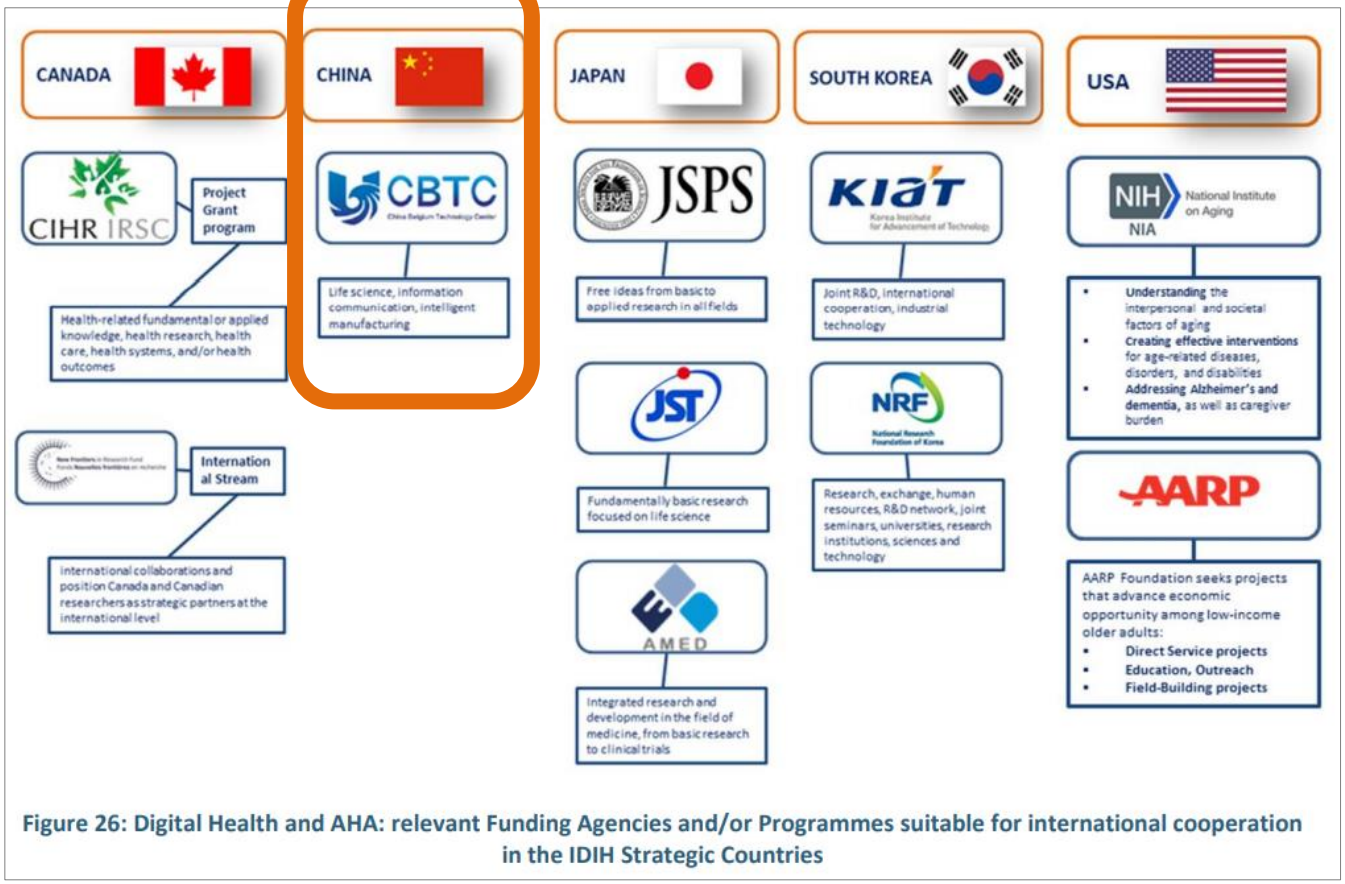


Figure 26: Digital Health and AHA: relevant Funding Agencies and/or Programmes suitable for international cooperation in the IDIH Strategic Countries

Reference

IDIH
INTERNATIONAL COLLABORATION
DIGITAL TRANSFORMATION
HEALTHY AGEING

D2.1
Guidebook for RDI stakeholders

APRE – AGENZIA PER LA PROMOZIONE DELLA RICERCA EUROPEA

(VERSION 1.0)

EU-CHINA S&T Cooperation: History

- The EU's approach towards China was set out in a Strategy adopted in 2016 and updated in March 2019 in a Joint Communication of the European Commission and the High Representative.
- In the framework of the EU-China High Level Innovation Cooperation Dialogue and Joint Steering Committee on Science and Technology cooperation both sides reiterated the willingness to continue to reinforce the already strong links between their respective scientific communities and innovation actors, in particular, by putting in place the principle of reciprocity in access to respective STI funding programmes.
- On **December 2019** , the Director of International Cooperation for the EU, Maria Cristina Russo, and Deputy Director General Zhao from the Chinese **Ministry of Science and Technology**, International Department met to discuss the way forward for the preparation of the joint EU-China roadmap for R&I cooperation.

The landscape for Research and Innovation in China

- **“Internet + Medicine”** . Due to the continuous expansion of rigid demand for medical and health, the emergence of more high-quality segmented services, and the increase of users’ awareness of health management, more and more "Internet medical "Health" products have been developing rapidly at an unprecedented speed.
- **“Medicine + Internet”** . The application of Internet technology in the medical industry has become more and more mature, gradually penetrating into all aspects of the medical field. With the rapid development of information technology today, "Internet + medical" is also creating new possibilities and new thinking often addressing problems that cannot be solved by traditional methods.

Digital Health for AHA: policy priorities and R&I opportunities at international level

- The global population is entering an aging stage. The elderly are increasingly seen as contributors to development, and their ability to take action to improve the conditions of themselves and their communities should be incorporated into policies and programs at all levels.
- In the coming decades, China, like many countries, will face financial and political pressures related to public health care systems, pensions and social security in order to adapt to the growing elderly population.
- China has implemented an old-age security system, and a relatively sound medical and social security system can provide better inclusive living support. However, while Healthy China Action Promotion Committee with the Healthy China Action (2019-2030) envisage support for healthy aging in preventive care, **preventive care** still needs to be improved and international cooperation is necessary.

Funding Programmes supporting International Cooperation in the field Digital Health for AHA

- At the 3rd EU-China Innovation Cooperation Dialogue organised in the margins of the 19th EU-China Summit (2017) and co-chaired by Carlos Moedas, Commissioner for Research, Science and Innovation, and Wan Gang, China's **Minister of Science and Technology**, the European Union and China have agreed to boost their cooperation with a package of flagship initiatives targeting the areas of food, agriculture and biotechnologies, environment and sustainable urbanisation, surface transport, safer and greener aviation, and biotechnologies for environment and human health.
- These initiatives gave birth to topics for cooperation with China under **Horizon 2020** and will represent the base for any further initiative to be undertaken under the next framework programme for research and innovation “Horizon Europe”.

China-Belgium Science and Technology Centre

- Currently, looking at Digital Health and AHA as grounds for international cooperation, the China-Belgium Science and Technology Park (CBTC) - a Sino-European platform for innovation and cooperation in the biotechnology industry – represent an attractive opportunity for EU stakeholders willing to undertake cooperation initiatives in these fields.
- CBTC | China-Belgium Science and Technology Centre As a national-level overseas economic and trade cooperation zone, the establishment of CBTC reflects the two global economic engines of China and Europe. In the context of the “One Belt One Road” grand strategy, it focuses on the advancement of technological frontiers and joint efforts to explore new industrial spaces and patterns of pragmatic cooperation. CBTC is committed to building a two-way green channel for China-Europe high-tech industries with multiple elements of technology, capital, and markets, for technology transfer, strategic investment, industry cooperation and market access for both parties, providing a cooperation platform and support

China-Belgium Science and Technology Centre

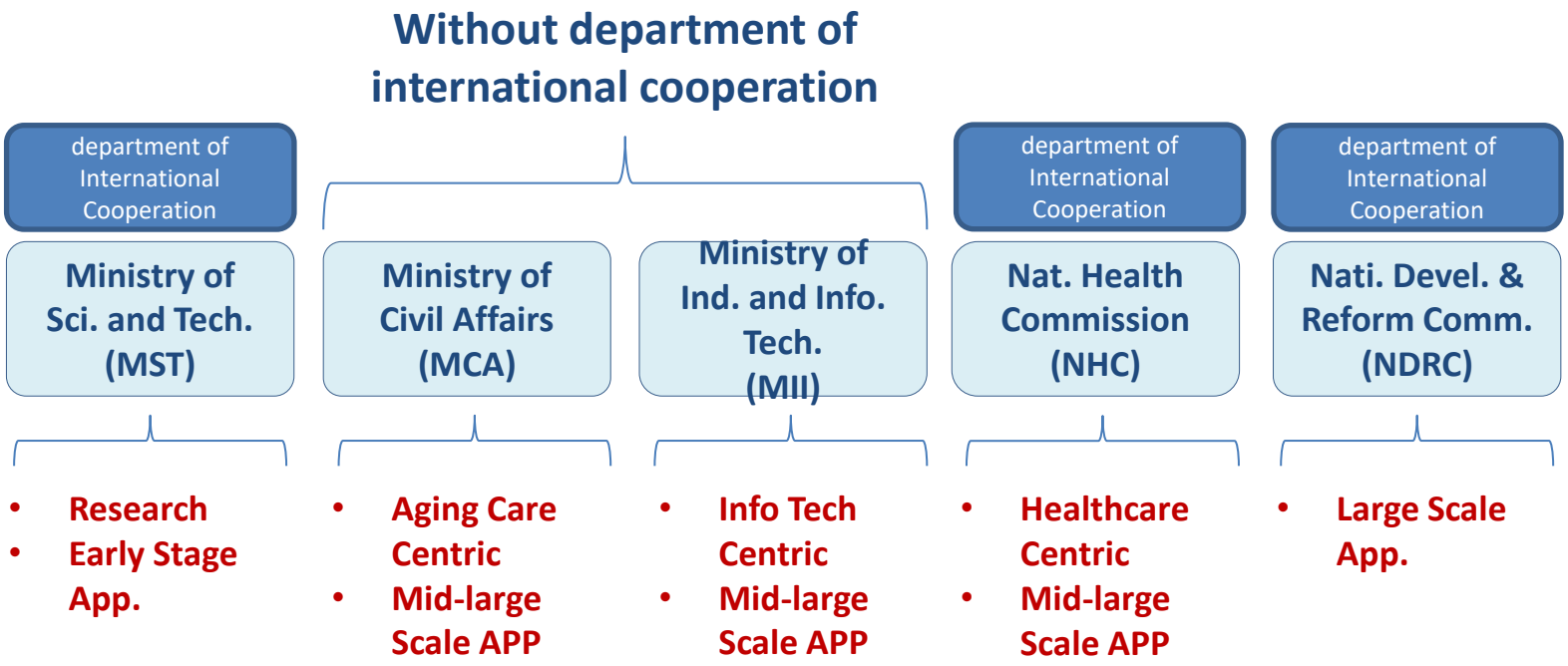
China-Belgium Science and Technology Centre (CBTC) , located in Belgium, is one of the materialized projects, a Sino-European platform for innovation and cooperation in the **biotechnology** industry in the form of a business ecosystem welcoming both Belgian and Chinese high-tech companies.

Nanjing Overseas Collaborative Innovation Centre

Nanjing City Government has established 29 overseas collaborative innovation centers in Europe, Japan and Israle. Up until 2021, these innovation centers have supported 297 projects

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 826092.

The Five Ministries Relevant to Digital Health for AHA in China



Some of the Recent High Profile Projects Administrated by the Five Ministries

- **Mii/MCA/NHC**(2017-2020): 500 **Smart Health Care & Aging Care** Demonstration Projects.
- **NHC**(2016-2019): **Integrated Care** Pilot Programs in 90 Cities.
- **NHC**(2016-2020): Popularize "**Family Doctor**" system to cover the whole population.
- **MII**(2021-2022): Action Plan to Help Elderly Cross the **Digital Divide**.

Summary

- Only **MST** has been involved in China-EU Cooperation at ministry level.
- The only materialized project at national level is **CBTC**
- **Progress at local government level: Nanjing Overseas Collaborative Innovation Centre.**
- MII and MCA do not have Dept of International Cooperation, not likely to be involved in such projects in near future.
- In the post Covid era, China will more actively seek international cooperation in many areas, including AHA.
- "**Belt and Road**" will continue to be a major driving force with promising funding potentials.

Thank you!

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- Mobile: 86 13911792950
- WeChat: jiewang2950

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 826092.

IDIH WEEK 2021

Digital Health & AHA in Japan

funding opportunities supporting international cooperation

Sakon Yamamoto

CEO/DEO, Sawarabi Group

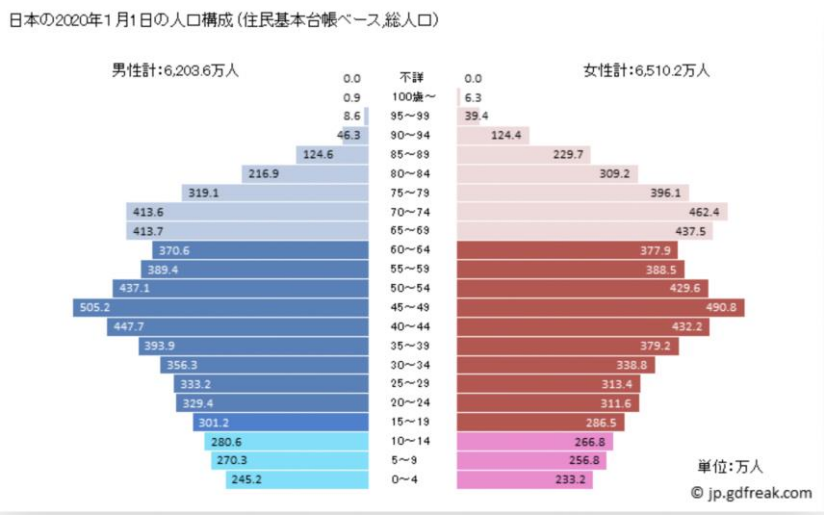
Japan | OECD statistics

- **the 3rd largest** in the world in terms of ;
  R&D expenditure and
  the number of the researchers
- **the 4th** in the world in terms of
  the number of research papers

Of the research expenses;
80% is spent by **private companies, 11.5% by academics,**
7.8% by governmental agencies,
1.3% by non-profit organizations

Japan | Universal Coverage

- **Health Insurance for All** since 1961
- **Long-Term Care Insurance** since 2000
- With rapid ageing and declining birth-rate, the maintaining of universal coverage becomes more and more challenging



Japan | Strategy for 2020-2024

- **Healthcare Strategy for 2020-2024**
  by the Prime Minister's Office (March 27, 2020)
  - Extend the life expectancy for 3 years
  - Maintain universal coverage

  The extended three years must be active and healthy
  Provide the world most advanced care to all
  Develop the technological solutions
  AHA, integrated care, labor shortage, quality of life…….
  AMED will be the central funding agency for R&D

Japan | AMED

- **Japan Agency for Medical Research and Development (AMED)**, established in 2015, is the central managing authority of the R&D in healthcare. It promotes integrated research from basic research to clinical trial mainly in line with national policies.
- The Integrated Budget of AMED from multiple ministries is JPY126.6 Billion (2018)

ministries in charge are Ministry of education, Ministry of Health, METI and the Prime Minister's Office.

https://www.amed.go.jp/en/

Japan | More funding Opportunities

- **JSPS (Japan Society of Promotion of Science)**
- **JST (Japan Society and Technology Agency)**
- **NEDO (New Energy and technology Development Organizations)**
- **Each Ministry**

AMED has been working with these agencies mostly about the research result that might be applicable to medical/healthcare fields.

Japanese Public Fund is principally provided to the domestic research groups the same as in most other countries including EU.

Japan | Public Fund

- Since the Japanese systems, both healthcare and welfare are highly socialized and the government is responsible for and controlling of them from policy-making to price-settings, the R&I in Japan tends to be being planned and performed in line with the government strategies and policies .

Japan | AIST

- **The National Institute of Advanced Industrial Science and Technology (AIST)** focuses on the creation and practical realization of technologies useful to Japanese industry and society, and on "bridging" the gap between (1) innovative technological seeds and commercialization, and (2) public sectors and private sectors with support of national funds mostly through AMED and/or METI.

https://www.aist.go.jp/aist_e/about_aist/index.html

Japan | PARO

- worldly known product created by AIST in 2004
- the seal-shaped, mental-commit robot with great healing effect

Japan | OriHime

- OriHime is your new body that you can control easily remotely from your smartphone and/or your tablet. You can have OriHime go wherever you wish and can communicate with people there via OriHime directly.

Japan | Robot-Nursing 2021

- **AMED** will fund/promote the development of robot-nursing equipment for either or both of facility-care and/or home-based care from 2021 through2024.

  https://www.amed.go.jp/koubo/12/02/1202B_00002.html

Japan | LIFE

- The Ministry of health, Labor, and Welfare has started new measure of data collection/sharing for scientific long-term care, called “LIFE (Long-term Care Information System For Evidence)”.
- “LIFE” collects standardized data from care-service providers by giving them economical incentives of additional reimbursement from the insurance.

https://www.mhlw.go.jp/stf/shingi2/0000198094_00037.html

Japan | start-up support program

- **Ministry of Health, Labor and Welfare**

  MEDISO

  Healthcare Venture Summit

- **Ministry of Economy, Trade and Industry**

  INNOHUB

  Healthcare Business-Model/idea Contest

  Well-Aging Society Summit

Provide no grant directly, but introduction/matching to investors, bigger corporations, users, and other professional supporters

Japan | Magic Shield

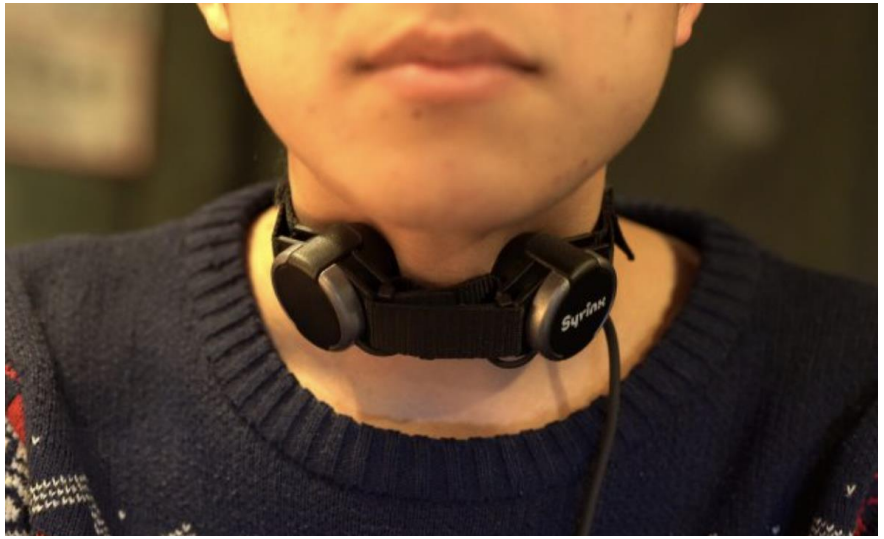
- 2021 winner of METI healthcare business model contest.
- Will provide “ a floor that becomes soft just when you fall down”.
- Currently providing a carpet-style floor-mat.

https://www.magicshields.co.jp/en/

Japan | Syrinx

- Grad-students motivated by patients created Syrinx, a new type of EL (Electro Larynx) which uses machine learning to revive patients' voices.

https://syrinx.community/



Japan | International Collaboration

- **2021 Agreement** on co-operation in science and technologies EU and Japan

  EUJO-LIMMS 2011-16, JEUPISTE 2013-016

- **2020 Letter of Intent** to strengthen the cooperation

  HORIZON by Europe, MOON SHOT by JST

- Co-operation/collaboration EU and Japan in Healthcare is being expected to be growing

Japan | WHILL

Wheel Chair?
not only…but
MaaS for All!
https://whill.inc/us/

Japan,
Silicon Valley,
to
Whole Earth

Japan | contact

Sakon Yamamoto

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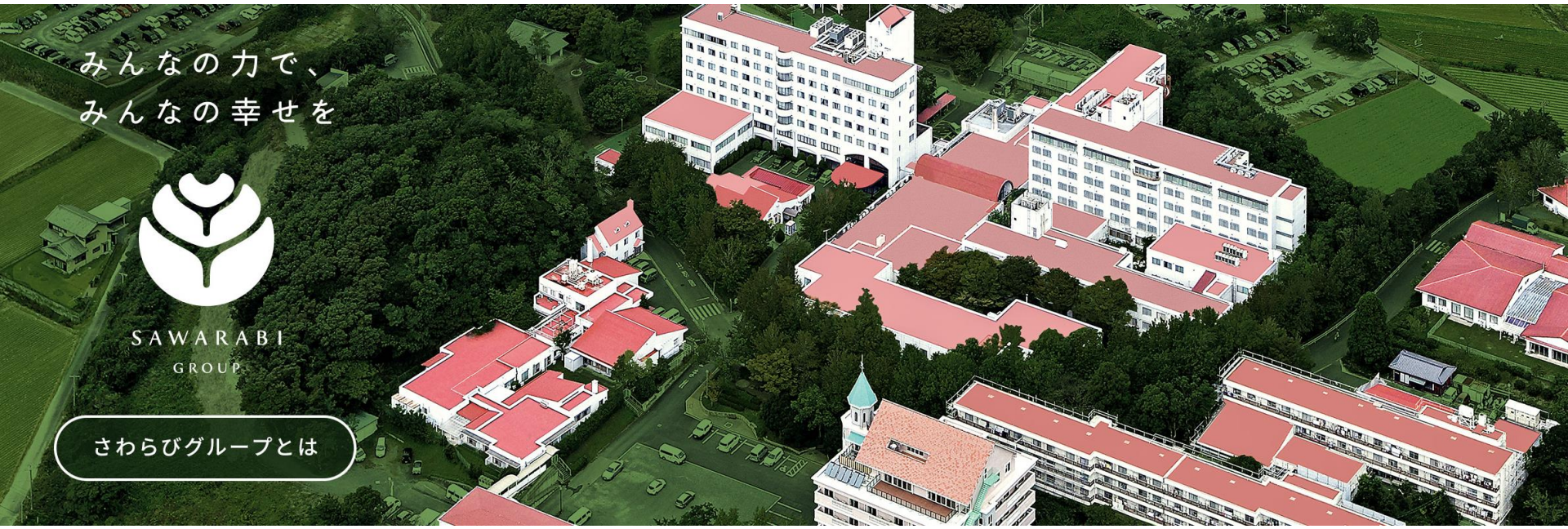


This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 826092.

IDIH WEEK 2021

Policies and Programmes supporting international cooperation for Digital Health & AHA in South Korea

Mathilde De Bonis

Project Manager, APRE

*sources: IDIH

Understanding the landscape for Research and Innovation in South Korea

Digital health R&I priorities (Government of South Korea)

- Innovating bio-health industry through new technologies (Data, Network and AI)
  - To foster the bio-health industry, companies will focus on supporting next-generation promising technologies such as innovative new drugs, medical devices, and regenerative medicine. It is significantly base on DNA (Data, Network and AI)
- Strengthening public-interest R&D investment
  - National health promotion R&D is carried out to reduce medical expenses and preventative health care, such as rehabilitation and care services for the medical vulnerable, chronic diseases, and development of service models for health care
- Creating a hospital-based research ecosystem
  - The government will focus on fostering hospitals as a hub for innovation in the research ecosystem, including the establishment of a hospital-oriented joint research platform that can be utilized by industries, universities, research institutes, and hospitals.
- Supporting localization of materials, parts, and equipment
  - Self-development of vaccines highly dependent on foreign countries, strengthening support for localization, including basic materials for imported-dependent cosmetics and assistive devices for the elderly and the disabled

Specific challenges for the ageing population

- Prevent dementia through preventive measures and the development of a drug
- Reduce social gap in health technologies acceptance and use
- Realign the technology policies in R&D sector to be more focused on prevention and on mental health issues

Main challenges related to digital health

- Facilitate certification procedures and regulations to industrialize innovation
- Access to a bigger market to produce various pilot projects
- Go beyond research at the level of industrial linkage

More information can be found in the complete report D1.2 - Panorama of the digital health landscape in the EU and in the Strategic Partner Countries. Check at https://idih-global.eu/outcomes/

BACKGROUND

RESEARCH AND INNOVATION

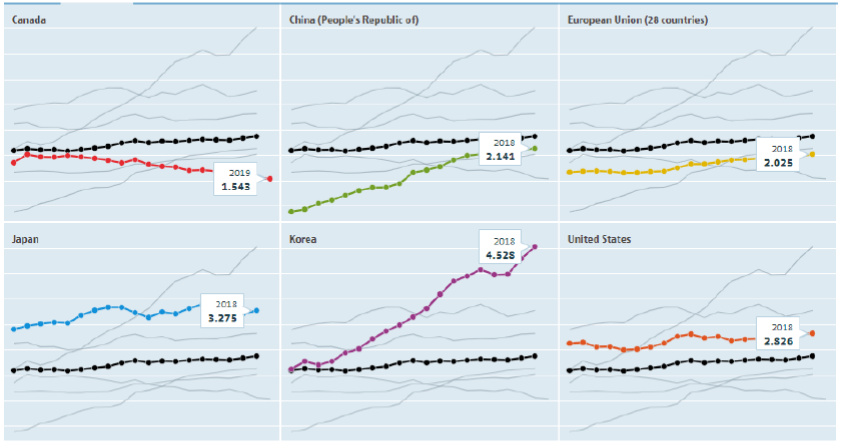
Understanding the landscape for Research and Innovation in South Korea

Data available at: https://idih-global.eu/wp-content/uploads/2021/05/IDIH_D4.5-Guidebook-for-care-providers-and-users-1.pdf

BACKGROUND

Gross domestic spending on R&D in the EU and in the IDIH Strategic Countries[11]

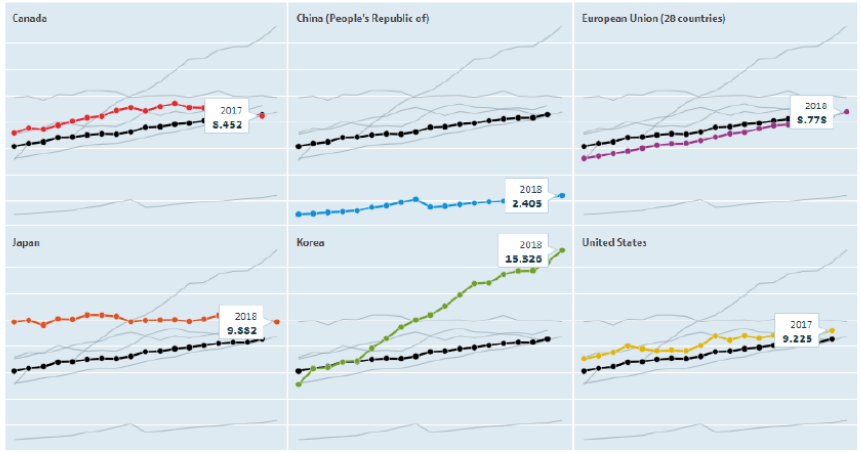
[*Source*: OECD (2020)] Gross domestic spending on R&D is defined as the total expenditure (current and capital) on R&D carried out by all resident companies, research institutes, university and government laboratories, etc., in a country. **It includes R&D funded from abroad, but excludes domestic funds for R&D performed outside the domestic economy.**



This indicator is measured in USD constant prices using 2010 base year and Purchasing Power Parities (PPPs) and as ***percentage of GDP***, and should be considered looking at the different level of analysis (e.g. if related to a country or a region) and taking into consideration the different political and socio-economic systems. **However, it shows the primacy of Korea in this field with 4,5 % of GDP allocated to R&D, followed by Japan with 3, 3%.** The average % of GDP on R&D in these countries and regions is 2,7%.

Researchers in the EU and in the IDIH Strategic Countries[12]

[*Source*: OECD (2020)] Researchers are professionals engaged in the conception or creation of new knowledge, products, processes, methods and systems, as well as in the management of the projects concerned.



This indicator is measured in per **1 000 people employed and in number of researchers and reflects the data provided on GDP spenditure on R&D.** In fact, **it shows the primacy of Korea per number of reserachers (15,3 per 1000 people employed), followed by Japan with almost 10 researchers per 1000 people employed.** The average of researchers in these countries and regions is 9 per 1000 people employed and shows how China is positioning at the bottom of this ranking with only 2,4 researchers per 1000 people employed.

Understanding the landscape for Research and Innovation in South Korea

By 2022, 100billion KWN will be invested from the treasury to build 9 smart hospital models, 1,000 specialized respiratory clinics, and an environment for Artificial Intelligence (AI) medical diagnosis for 8 diseases. These numbers will increase by 2025 to **18 smart hospital models** and diagnosis of 20 diseases using AI, as additionally 100billion KWN will be invested. .

R&D spending | Over the past 20 years, **South Korean R&D spending as a share of GDP has doubled to exceed 4.25% in 2016**[74]. R&D in South Korea is almost entirely performed and funded by the **business sector** (more than 75%). Nearly two-thirds of all R&D is directly targeted at developing specific new or improved applications, whereas basic research represents about 20% of total R&D spending.

Patents | Data on PCT patent applications based on OECD classification notably show that South **Korea specialises more than EU28 on ICT and nanotechnology** related patents. South Korea's R&D investment has placed the country at the frontier of cutting-edge technologies. For technologies related to the Internet of Things, big data, quantum computing and telecommunications, South Korea accounts for 14.1% of the patent families filed at the world's largest patent offices in 2010-12 (up from 4.8% in 2005-07).

The state of research and innovation in South Korea has recently been propelled by the announcement of the **Korean New Deal in mid-July, 2020**. Its primary agenda as a national development strategy is to support the nation's recovery from the current pandemic crisis and further combat the challenges of growth, which has been slowing down since the 1990s, and widening levels of polarization.

*Under the Digital New Deal, **Smart Healthcare** is one of the 10 key projects where Korea's digital capacity, based on its competitive information and communication technology (ICT), is aimed to be strengthened through building large-scale ICT infrastructure including a 'Data Dam' or a large collection of data to support big data development.*

Understanding the landscape for Research and Innovation in South Korea

*The Korean government established a National Strategy for AI on December 17th, 2019[73]. With the vision of **'Toward AI World Leader beyond IT'**, Korea aims to achieve digital competitiveness, create a huge economic effect of AI, and improve quality of life for people by 2030.*

The strategy consists of 100 government-wide action tasks under nine strategies in three main areas of AI (AI ecosystem, AI utilization, People-centred).

→ Improving the **Digital Health Ecosystem**

- mobilizing **large scale private investment**
- **job training** system will have to be restructured to become future-oriented
- collaborations between the **public and private sectors**

BACKGROUND

Opportunities for International Cooperation

Free Trade Agreement: The bilateral Free Trade Agreement (FTA) (in force since 2015) aims at removing barriers to bilateral trade, thereby creating an expanded and secure market for goods and services and a stable and predictable environment for investment. It is the most ambitious trade deal ever implemented by the EU and a success story deal for both the EU and the RoK.

Korea Innovation Centre Europe: KIC Europe is to build a global innovation ecosystem across Korea and the EU. By leading the global cooperation in innovation – Industry, Public, Alliance, we aim to facilitate and provide a bridge for Korean SMEs and Start-ups and European partners and institutes."[76]

Partnership Instrument: Since 2014, a number of PI projects in Korea have emerged as a direct result of the collaboration between the EU Delegation to the Republic of Korea and EU countries with Korean public authorities, civil society organisations, business promotion agencies, academia and more.[77]

Opportunities for International Cooperation

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Global Digital Health Partnership: South Korea joined the Global Digital Health Partnership alongside 30 other countries, including the European Union members Austria, Italy, Sweden, and the Netherlands, when the organization was established in 2018 to **facilitate global digital health collaboration and cooperation**. Being one of the world's largest government-to-government global health Information Technology (IT) partnership, the GDHP strives to identify the best international practices for the use of digital health data in order to advance digitized healthcare, provide opportunities for networking and knowledge transferring, and facilitate horizon scanning to more accurately predict emerging trends or threats like COVID-19. The current GDHP work plan focuses on five work streams: *cyber security, interoperability, evidence and evaluation, policy environments, and clinical and consumer engagement*. In overall, South Korea's advanced eSkills and prevention policies based on digital solutions can be positively contributed to the cooperation in the partnership.

GLOBAL DIGITAL HEALTH PARTNERSHIP

All links available at https://idih-global.eu/wp-content/uploads/2021/05/IDIH_D2.1-Guidebook-for-RDI-stakeholders-1.pdf

BACKGROUND

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GLOBAL DIGITAL HEALTH PARTNERSHIP

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BACKGROUND

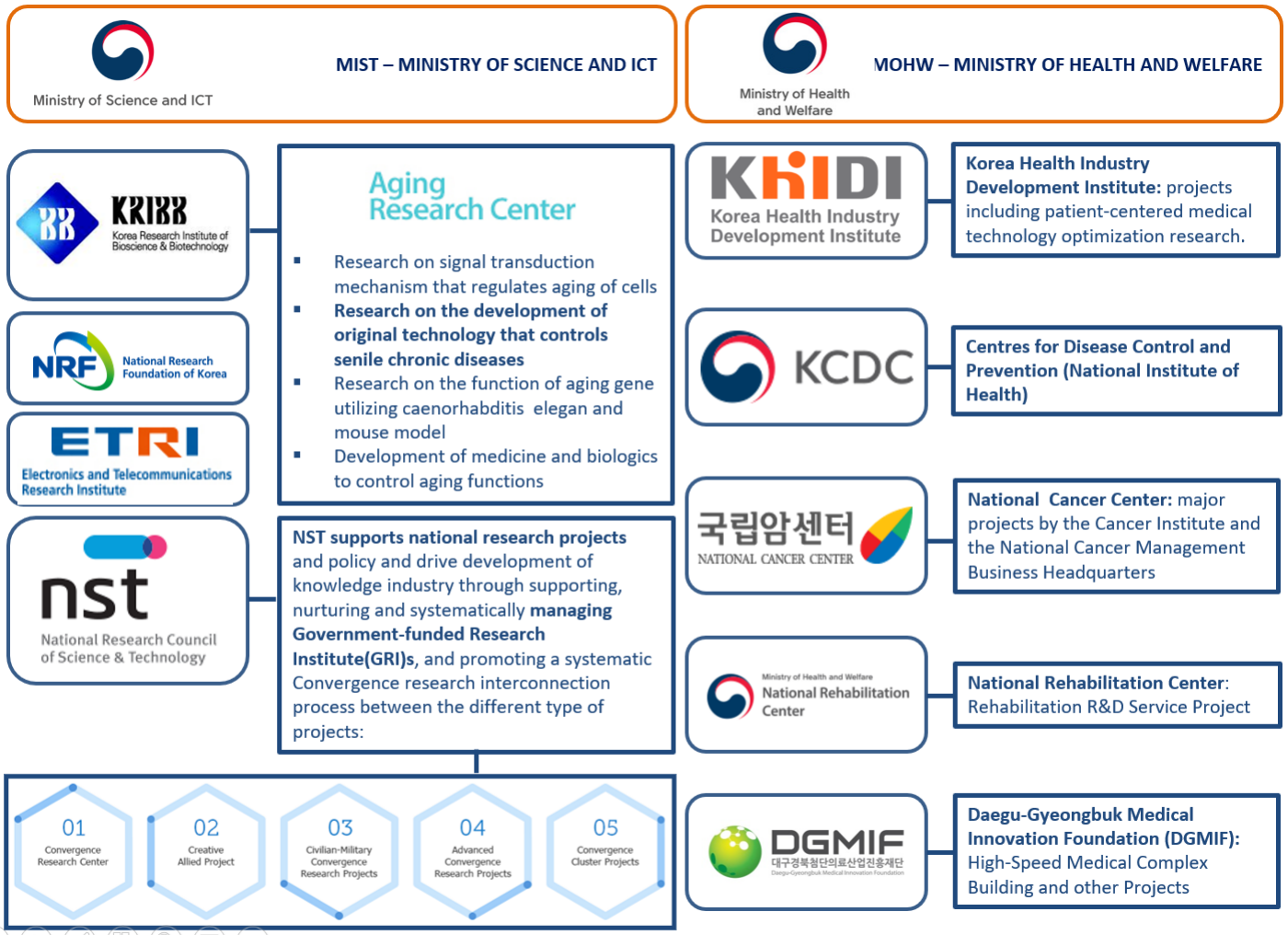
Opportunities for International Cooperation

Horizon 2020 participation so far is mainly in the areas of ICT, health, energy, climate action, and satellite navigation.

[!] PLEASE NOTE | Korean participants were not automatically eligible for funding through Horizon 2020. **Korean participants have themselves to determine the sources of funding and find the resources for their part of the project.** These may be own funds, as well as funds received from Korean ministries, foundations and other organisations that fund research and innovation activities in Korea. Contributions can also be made in kind.

- To support Korean participants, the Korean government, Ministry of Science and ICT (MSIT) and Ministry of Trade, Industry and Energy (MOTIE), regularly launched public calls for proposals to co-fund Koreans in Horizon 2020 projects selected for European Union funding, covering all thematic areas.

Funding Programmes supporting Digital Health for AHA in South Korea



Funding Programmes supporting **International Cooperation** in the field of Digital Health for AHA

SOUTH KOREA

Though Korea has limited domestic programmes internationally open, the Korean government has encouraged Korean researchers to be engaged in various global research initiatives and bi/multilateral programmes.

Besides excellent capacity of research and innovation society and productive research environment, indeed, Korea has a relatively good and speedy funding mechanism for those who are willing to take part in international cooperation for research and innovation.

To promote international research cooperation, Korean government initially sign a **memorandum of understanding (MoU),** or **joint declaration**, or **agreement** with partner countries at government level, followed by preparation on **annual budget** to support Korean research beneficiaries. Therefore, the foreign counterparts should secure their own budget through their government.

KIAT
Korea Institute for Advancement of Technology

Joint R&D, international cooperation, industrial technology

NRF
National Research Foundation of Korea

Research, exchange, human resources, R&D network, joint seminars, universities, research institutions, sciences and technology

Nevertheless, **National Research Foundation of Korea (NRF)** offers opportunities for internationalization for the next few years and the **Korea Institute for Advanced Technology (KIAT)** has four international research programmes currently ongoing: *International Technology R&D Collaboration Program; Global R&BD Program; Industrial Technology Cooperation Program; Official Development Assistance Program.*

Funding Programmes supporting **International Cooperation** in the field of Digital Health for AHA

WHAT

HOW

Find more at https://idih-global.eu/wp-content/uploads/2021/05/IDIH_D2.1-Guidebook-for-RDI-stakeholders-1.pdf

KIAT | Mission

KIAT helps enterprises enter overseas markets successfully and enter the global network. To achieve this, KIAT strengthens global cooperation including international joint R&D with foreign enterprises, universities, and research institutions.

KIAT coordinates internationally joint R&D programs in co-funding/co-planning/co-evaluating with cooperative countries for strategic development of core technologies, within the framework of:

International co-operation of industrial technology (Joint R&D)	
Objectives/Impacts/ Scope	Strategic development of core technologies.
Eligibility criteria	▪ Applications for the international R&D consortium must be done in conjunction with a South Korean organization. ▪ The organizing agency must be a South Korean corporation or university or research institute. ▪ The R&D Center from the South Korean corporation must be at least 1 year or over since it was authenticated by Korea Industrial Technology Association (KOITA).
Grant	500 million KRW (= $440,000) Total fund amount: 58 billion KRW (=$51 million)
Official Sources	https://www.kiat.or.kr/site/eng/activities/tCooperation.jsp
KEYWORDS	Joint R&D, international cooperation, industrial technology

National Research Foundation of Korea

Funding Programmes supporting **International Cooperation** in the field of Digital Health for AHA

WHAT

NRF | Which opportunities

NRF provides a joint research program to promote exchanging human resources, allowing scholars from global universities and research institutions to visit South Korea for closer collaborations of ideas and knowledge.

- NRF funds projects to provide support for exchanging researches through **exchanging human resources, joint seminars, and other academic activities**[87].

NRF does not coordinate a project directly related to Active & Healthy Aging (AHA), but it aims to foster collaborations amongst European and other countries to share scientific data and technologies, which then can lead to digital solutions and advancements in AHA.

HOW

National Research Foundation (NRF) Joint Research Program (Researcher Exchanges)	
Objectives/Impacts/ Scope	▪ Support research exchanges between Korean and international researchers from the countries who have the MOUs signed with the NRF ▪ Contribute to building an overseas R&D network in all academic fields including sciences and technology areas. ▪ Provide opportunities for various forms of exchange activities, such as joint seminars and human resources exchange, to effectively meet the demands for international cooperation and lay the foundations for joint research in the future
Eligibility criteria	▪ Researchers affiliated with "universities" (including affiliated research institutes) and "research institutions" as defined under Article 2 of the Sciences Promotion Act, are eligible to apply for projects in the name of the head of the relevant institution.
Grant	Differs by country (e.g. Austria; Airfare/Living Expenses, 40 million KRW = $35,000)

Find more at https://idih-global.eu/wp-content/uploads/2021/05/IDIH_D2.1-Guidebook-for-RDI-stakeholders-1.pdf

IDIH Partner in South Korea

GSBC
Global SMEs
Business Council

GSBC is a non-profit organization certified by Ministry of SMEs(Small and Midsized Enterprises) and Startups in South Korea. GSBC has business agreements with government ageincies, institutions and innovative companies in China, US, Japan, Columbia, and EU.

Global SMEs Business Council (GSBC) is organising "GLACE" (Global Alliance for SMES & Professionals), studying policies for industrial ecosystems and business development for SMEs.

GSBC's main study areas are Happiness IT Platform, Senior Wellness Index, and Wellness IT, etc. Most of all, GSBC has established "AHA-SSE System" (Active & Health Ageing – Square Step Exercise System), for prevention of falling-down, improving social interactions, and mostly for prevention and management of cognitive diseases for elderly.

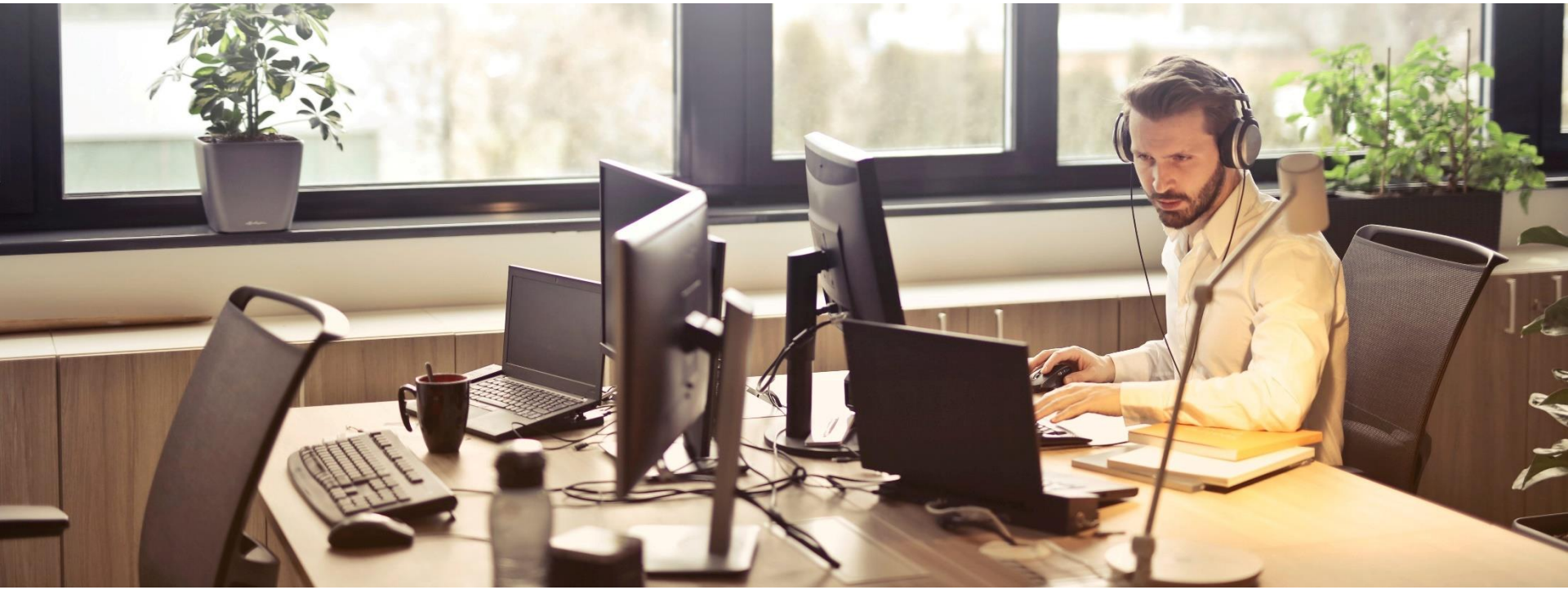
It's main business areas are Consulting & Planning to develop (Senior) Wellness IT Town Development, Smart Cities in abroad with the Global Alliance to support global SMEs:

- Establishment of ecosystem for SMEs
- Discovering and commercializing innovative technologies
- Planning for convergence and cooperation projects among global innovative companies and professionals

As well, GSBC provide Consulting Service and Event hosting for investment with China, IP trades, PR for foreign gov't projects, Health 2.0 Asia Conference, Pathways 2 Success(P2S) with FCEDA, VA, US.

Website: www.wegbc.com
Facebook: www.facebook.com/gsbcwita/
Main contact: Dr. YoungHee RO (+821099995699) – Dr. Joseph Yi
Mail: info(at)wegbc.com

IDIH HELPDESK



idih@apre.it

If you need information and/or assistance on Funding Programmes and Calls that offer opportunities for international cooperation in the field of Digital Health and Active and Healthy Ageing

+39 06 48 93 99 93

please specify the aim of your call:
"Assistance request to the IDIH Helpdesk"

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 826092.

IDIH WEEK 2021

Canada – the opportunities for Digital Health in AHA for international cooperation *

Martina Desole

Head of International Cooperation, APRE

*sources: EC; IDIH; APRE

Canadian Institutes of Health Research (CIHR)

- As part of its mission, CIHR seeks to foster effective Canadian involvement in international health research that benefits Canadians and the global community.
- As defined in CIHR's Act, CIHR is required to have a perspective and sphere of action that transcends national boundaries. For example, the Act provides for "*the improvement of people's health in Canada and the world*" and "*support for the participation of Canadian researchers in international collaboration and partnerships.*"
- CIHR's Strategic Plan, A Vision for a Healthier Future, commits CIHR to support international and global health initiatives that will allow people throughout the world to benefit from existing knowledge as well as from future transformations in diagnostic, treatment, and prevention research. CIHR is committed to enhancing national and international collaboration through Priority A (Advance Research Excellence in All Its Diversity) and driving progress on global health research through Priority D (Pursue Health Equity through Research). CIHR supports research grants and training awards with a global health focus and/or involving international collaborators through its investigator-initiated grant competitions and priority-driven research funding programs, while developing a corresponding platform of international engagement activities in areas such as policy, ethics and knowledge translation.
- CIHR has over 60 international agreements and Canadian researchers are currently working with researchers in 75 countries. This international work has led to cutting-edge research and contributed to the improvement of the health of Canadians and citizens throughout the world.

CIHR IRSC

Canadian Institutes of Health Research | Instituts de recherche en santé du Canada

Canadian Institutes of Health Research (CIHR)

CIHR Project Grant Program is designed to capture ideas with the greatest potential to advance health-related fundamental or applied knowledge, health research, health care, health systems, and/or health outcomes. It supports projects or programs of research proposed and conducted by individual researchers or groups of researchers in all areas of health. Note that international collaborators may apply, please see eligibility section for further information.

CIHR IRSC

Canadian Institutes of Health Research | Instituts de recherche en santé du Canada

CIHR Project Grant Program

- Since 2010, CIHR has participated in 48 joint transnational calls and has funded over 145 multinational teams. The organization has invested over $45 million, and has committed an additional $6.7 million to the joint transnational calls in 2019 and $7 million to the nine joint transnational calls in 2020. Horizon Europe will come into effect in 2021 and will be the biggest multilateral research and innovation programme in the world, with a proposed budget allocation of almost €100 billion, an increase of almost 30% (when adjusted for inflation) from Horizon 2020.

CIHR IRSC

Canadian Institutes of Health Research | Instituts de recherche en santé du Canada

- Some possible topics or project themes might include but are not limited to:
- Two-Spirit and/or LGBTQ+ wellness
- Youth mental health
- Gender-related risk factors
- HIV and/or other STBBI
- Language and wellness
- Aging well
- Gender-based violence
- Gender and wellness of Indigenous Peoples living in or transitioning to urban centres
- The effect of colonization on mental health
- Storytelling and mental wellness
- Land, body and spirit connections
- Family relations or parenting
- Maternal and child health
- Men and masculinities
- Physical health and exercise

CIHR IRSC

Canadian Institutes of Health Research | Instituts de recherche en santé du Canada

APRE
Agenzia per la Promozione della Ricerca Europea

IDIH
INTERNATIONAL COLLABORATION DIGITAL TRANSFORMATION HEALTHY AGEING
IDIH WEEK 2021

CHIR Transition in Care

- The goal of the CIHR Transitions in Care (TiC) initiative is to improve the health and wellness of Canadians by supporting research that transforms the health system to optimize the outcomes of individuals experiencing transitions in care.
- In their lifetime, every Canadian will experience a transition in care, whether as a client, patient, caregiver, family member, and/or as a member of a community with challenges to access care. Successful care transitions require multi-disciplinary communication and coordination, comprehensive planning, including patient/caregiver education and clinician involvement, and shared accountability during all points of transition. When gaps occur in care transitions, individuals are susceptible to fragmentation in care, poor quality of care, unfavorable experiences, compromised patient safety, and adverse medical events.
- The initiative is co-led by the CIHR's Institute of Circulatory and Respiratory Health (ICRH), Institute of Human Development, Child and Youth Health (IHDCYH), Institute of Health Services and Policy Research (IHSPR), and the Institute of Indigenous Peoples' Health (IIPH), in collaboration with the Institute of Aging (IA), Institute of Cancer Research (ICR), Institute of Gender and Health (IGH), Institute of Musculoskeletal Health and Arthritis (IMHA), Institute of Neurosciences, Mental Health and Addiction (INMHA) and the Strategy for Patient-Oriented Research (SPOR).
- A minor involvement of international partners could be foreseen.
- This programme has been used as joint fund of a H2020 topic.

CIHR IRSC
Canadian Institutes of Health Research
Instituts de rech en santé du Car

National Research Council-NRC

- 1. National Research Council Canada (NRC) - Industrial Research Assistance Program (IRAP) | NRC international programs connect companies with the funding, advisory, export, and innovation services they need to access new markets and global value chains.
- 2. National Research Council Canada (NRC) | EUREKA international network is an international network for market-driven industrial R&D that includes 45 economies from Europe and across the globe. Through Canada's associate membership in EUREKA, Canadian innovators have a new advantage in accessing technology, expertise, and markets in Europe and beyond.
- The National Research Council Canada (NRC) is the national contact point for **EUREKA**. EUREKA has been operating successfully since 1985 supporting market-oriented R&D and innovation projects in all technology sectors. Initially a European intergovernmental network, EUREKA has expanded beyond Europe to include Israel, Turkey, South Korea, South Africa, Chile, Argentina and Canada. To date, EUREKA has resulted in 7,100+ projects, 42.6+ billion euro public-private funding invested, 33,200+ participants including 14,900 SMEs.

- As the Government of Canada's largest research organization, the National Research Council of Canada is a key connector for Canadian innovators seeking access and engagement opportunities beyond Canada's borders.
- Our work engaging with innovators in more than 45 countries leads to ongoing invitations to participate in international partnering opportunities and global events aimed at stimulating R&D and innovation in technology areas of mutual interest.

2021-06-25	Canada–Brazil 2021-22 collaborative industrial research and development call for proposals	• Advanced manufacturing • Clean technologies • Digital industries • Energy and natural resources • Health and bio-sciences	Project funding	• Brazil	• Small and medium-sized enterprise (SME)
2021-09-10	Canada-Germany 2021-22 collaborative industrial research and development call for proposals (NRC IRAP-ZIM Call 9)	• Advanced manufacturing • Agri-food • Clean technologies • Digital industries • Energy and natural resources • Health and bio-sciences	Project funding	• Germany	• Small and medium-sized enterprise (SME)

New Frontiers Research Fund – International Stream

- The International stream aims to support international collaborations and position Canada and Canadian researchers as strategic partners at the international level. The International stream includes two mechanisms:
- joint funding calls with international agencies on topics of international relevance; and
- a dedicated fund to support participation of Canadian researchers within international teams in projects seeking funding from major global platforms.
- Matching fund to Horizon 2020

New Frontiers in Research Fund
Fonds **Nouvelles frontières** en recherche

Active Assisted Living Program

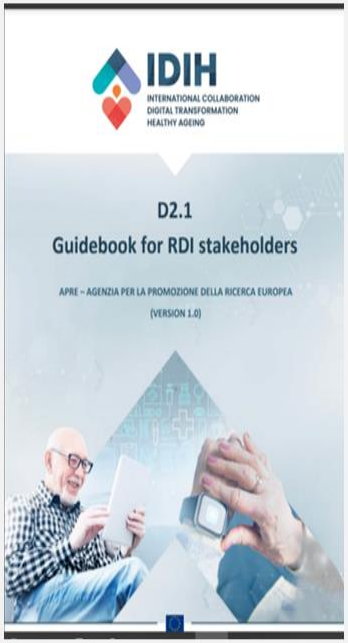
- Canada participates in a variety of Horizon Europe programs that seek to maintain/improve the lives of older adults through digital health solutions.
- In particular, the Horizon 2020 Active Assisted Living Program (AAL) initiative supports projects in public-private partnership in the field of information and communication technology (ICT) for active and healthy aging. AAL's goal is to deliver concrete ICT solutions for older adults to live independently.
- CANADA & AAL | **Canada is represented by CIHR Institute of Aging, CIHR Institute of Health Services and Policy Research, and AGE-WELL Networks of Centres of Excellence.**

Active Assisted Living Program

- **Call 2021**
- The topic for the AAL Call 2021 is:
- **ADVANCING INCLUSIVE HEALTH & CARE SOLUTIONS FOR AGEING WELL IN THE NEW DECADE**

AAL PROGRAMME

THANK YOU FOR YOUR ATTENTION!



Please check the IDIH Guide to find the links to the pages of Programs and calls

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 826092.

IDIH WEEK 2021

USA. Policies and Programmes supporting international cooperation for Digital Health & AHA

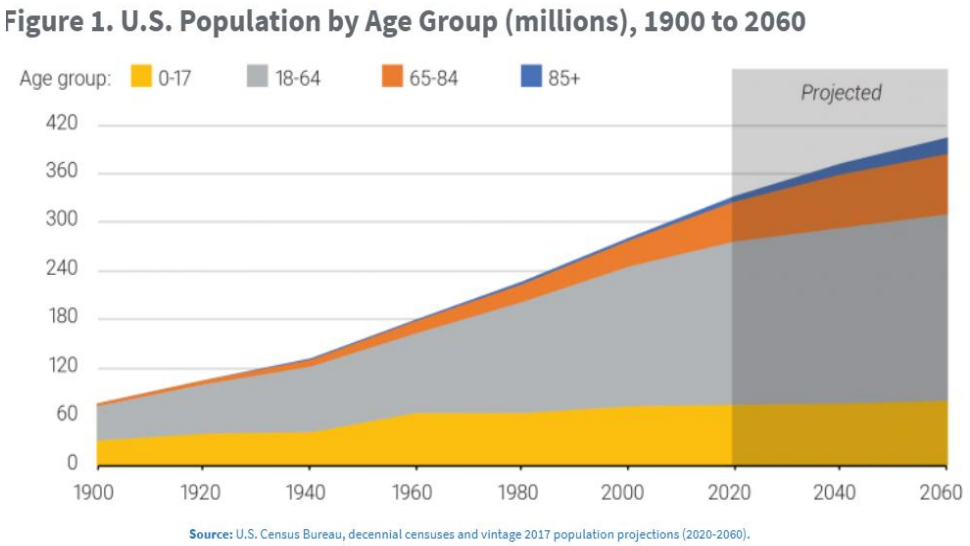
Matthew Holt

General Manager & Co-Founder, Catalyst @ Health 2.0

catalyst @ Health 2.0

USA Background

The US population is getting older...



...and requires more support

- 21% of those 85+, 8% of 75-84, & 4% of 65-74 need caregiving support
  - The 85+ population is expected to increase by 123% to 14.4 million people in 2040
- Only 45% of those 65+ considered their health as excellent or very good, & all on average visit the doctor more often
- In 2018, older adults spent 11.9% of their total expenditures on health, versus the 8.1% of all consumers

USA Challenges

- Lack of interoperability
  - Technical barriers such as lack of standards
  - Financial barriers such as costs related to development
  - Trust barriers such as a reluctance to share data
- Lack of standardized reimbursements for digital health technologies
- Operational & end user hesitance

USA Participation – Roadmap for EU-USA S&T Cooperation

Horizon 2020:

- 246 involvements in 182 grants
- **Horizon 2020 Marie Sklodowska-Curie Actions (MSCA):** Participation 853 times
- **ERC grants**: Participation in 16 grants
  - US has the most ERC non-ERA grantees of any country, with 141 US citizens involved

USA Funding Programmes – The Government

The Department of Health and Human Services (HHS)

– The Centers for Medicare and Medicaid Services (CMS)

– The Food & Drug Administration (FDA)

– The Office of the National Coordinator for Health Information Technology (ONC)

– The National Institute of Health (NIH)

USA Funding Programmes – The Department of Health and Human Services (HHS)

- Key funding agency for healthcare services & research
  - **Open Innovation (IDEA Lab)**
    - Administered >170 challenges & awarded $35 million to >9,000 innovators
  - **Secretary's Venture Fund**
    - Supports HHS employees to develop innovative ideas to improve HHS's objectives through growth-stage funding
  - **Entrepreneurs-in-Residence Program**

The Department of Health and Human Services (HHS) – AHA-Related Policies

- **Health Information Technology for Economic and Clinical Health (HITECH) Act (under the American Recovery and Reinvestment Act of 2009)**
  - Implement meaningful use of interoperable EHR adoption & incentivize the adoption of health information technology
- **Patient Protection and Affordable Care Act (ACA)**
  - Increase access to care, reduce costs, & improve health outcomes
- **Older Americans Act (OAA) Reauthorization Act**
  - Protect vulnerable elders by strengthening the Long-Term Care Ombudsman program & elder abuse screening & prevention efforts
  - Promote the delivery of evidence-based programs, such as falls prevention & chronic disease self-management programs

The NIH

- Part of HHS
  - Mission: To seek fundamental knowledge about the nature & behavior of living systems & the application of that knowledge to:
    - Enhance health
    - Lengthen life
    - Reduce illness & disability
- Largest biomedical research agency in the world - made up of 27 Institutes & Centers including...

The National Institute on Aging (NIA)

National Institute on Aging

- Overall mission: To understand the nature of aging & to extend the healthy, active years of life
  - Primary federal agency supporting & conducting Alzheimer's disease research
- Research objectives:
  - Understanding the interpersonal & societal factors of aging
  - Creating effective interventions for age-related diseases, disorders, & disabilities
  - Addressing Alzheimer's & dementia, as well as caregiver burden

USA Policy Frameworks Driving R&D

- **21st Century Cures Act**
  - Accelerate research into preventing & curing serious illnesses
  - Accelerate drug & medical device development
  - Address the opioid abuse crisis
  - Improve mental health service delivery
- **Creating High Quality Results and Outcomes Necessary to Improve Chronic (CHRONIC) Care Act (part of the Bipartisan Budget Act of 2018)**
  - Promote high quality care in the home
  - Advance team-based care
  - Expand innovation & technology
  - Identify the chronically ill population prospectively
  - Empower individuals & caregivers in care delivery

AARP

- Non-profit organization, formerly the American Association of Retired Persons, serving those 50+
- Mission: To encourage a positive, healthy relationship with aging

AARP - Programming

- **AARP Innovation Labs**
  - **Hatchery**: A platform using challenges, pitch competitions, & other programming to facilitate the development of products & services to further the AARP's mission
- **AARP Innovation Fund**
  - $40 million in capital through a partnership w/JP Morgan Asset Management awarded to companies creating digital solutions for aging at home & better access to healthcare
- **AARP Foundation**
  - Awards grants for Direct Service projects & Education, Outreach, or Field-Building projects aimed at supporting low-income older adults
  - In 2019 launched the Connect2Affect Connected Communities pilot program to explore the impact of hands-free, voice-activated tech on social connectedness in low-income older adults

Other US Players

- Private insurers & digital health entrepreneurship
  - **United Healthcare**: $3.2 billion annually in investments for data, technology, & innovation
  - **Cigna**: $250 million in capital investments to early & growth-stage start-ups
  - **Kaiser Permanente**: $170 million in capital to companies
- Academic medical centers (AMCs)
- University of California Center for Information Technology Research in the Interest of Society (CITRIS)

Potential Major Funding

- **American Jobs Plan**
  - High-speed broadband to all Americans
  - Upgrade housing, infrastructure, especially for vulnerable communities
  - Improve veterans' hospitals & related facilities
  - $400 billion for the creation of jobs & raised wages & benefits for essential home care workers
    - Expand access to long-term care services under Medicaid
  - $120 billion investment in R&D across the country

Thank you!

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catalyst @ Health 2.0

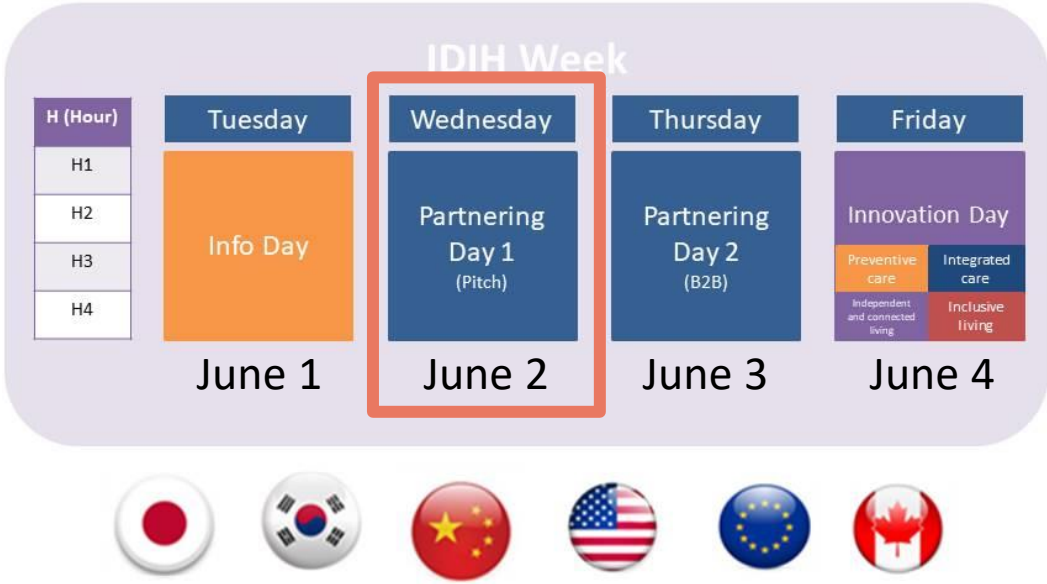
IDIH

INTERNATIONAL COLLABORATION
DIGITAL TRANSFORMATION
HEALTHY AGEING

IDIH WEEK 2021

A **4 days online event** dedicated to researchers, innovators, care providers and users associations dealing with **Digital Health for Active and Healthy Ageing (AHA).**

Information, Networking&Matchmaking, and Co-creation sessions among all the key-stakeholders of digital solutions for AHA in Europe, Canada, China, Japan, South Korea and USA.



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Thank you!

June 1, 2021

online

The Future of Ageing and Wellbeing in the Digital World

Irina KALDERON LIBAL
Policy Officer
DG CNECT H.3
‘eHealth, Wellbeing and Ageing”

1 June 2021

Main challenges

- **Demographic change**
  - Life expectancy projected to continue to grow. In 2070: 86 years for Men, 90 years for Women
  - Average childbirths per woman: 1.55; Median age: 31
  - By 2070: People over 65 will represent 30.3%; People over 80 will represent 13.2%
  - Households composition is changing: mono-parental families, couples without children, people living alone
  - Continuous migration from regions, leaving depopulated areas
  - Europe's population is shrinking in comparison to world's population and it will represent only 4% by 2070.
- **Long-term chronic, complex medical conditions**
  - health chronic conditions prevalence in case of people aged 50+ (high cholesterol, heart disease, mental illness, diabetes, arthritis, back problems, asthma) + multi-morbidity being very common among people aged 65+
- **Increased demand for social and health & care systems in terms of facilities, staff and supplies**
- **Lack of age-friendly living and working environments**
- **Gap in digital skills both for healthcare workforce and citizens/patients**
- **COVID-19 challenges** (isolation, mental health)
- **Lack of uptake of digital innovations**

EC Policy Framework and Developments

- Green Paper on Active Ageing, Q1 2021
- Long Term Vision on Rural Areas, Q2 2021
- Report on Demographic Change, June 2020
- Council Conclusions on Mainstreaming Ageing in Public Policies (Portuguese Presidency)
- EPSCO - Council conclusions 'Human Rights, Participation and Well-Being of Older Persons in the Era of Digitalisation", 09 October 2020 (German Presidency)
- EPSCO – Council conclusions on "Demographic Challenges – the Way Ahead", 06 June 2020 (Croatian Presidency)
- EPSCO - Council conclusions on the Economy of Wellbeing, 24 October 2019 (Finnish Presidency)
- COM(2012) 83 : Taking forward the Strategic Implementation Plan of the European Innovation Partnership on Active and Healthy Ageing
- EPSCO - Council conclusions on Active Ageing (June 2010)
- ECOFIN - Conclusions on age-related spending (May 2018)

European Commission

The Silver Economy

Europe is **ageing**

By **2060 one in three** Europeans will be **over 65**

Today

The ratio of **working** people to the **'inactive'** others is shifting from **4 to 1 today** to **2 to 1** by **2060**

2060

Costs for care are **rising sharply**. **If we don't change** our systems for health and social care, **we will not have the money** and **the people** to **guarantee** a **good** and **healthy life for all**

Electronic Health Record

General Practitioner
monitors online progress

If we reinvent our systems for health and social care, **innovative new ICT-products** and **services** can help us deliver **better** and **cheaper care for all**

Social Services
activate regular visits of carer and social worker

Europe has what it takes to **benefit** from these **new opportunities**

A solid R&I base in European industry

A host of SMEs & start-ups are now developing

New ICT products such as care robotics

Health mobile applications that assist with tracking

Big pharma companies are developing integrated therapeutic solutions

The Silver economy offers **new highly skilled tech jobs**

but also the opportunity for **low qualified population** to **reskill**

@eHealth_EU #silvereco bit.ly/SilverEcoEU

ACCOMPANY
Beyond Silos
Carewell
CARER+
DEM@CARE
eWALL
FARSEEING
FATE
GIRAFF+
GrowMeUp
I-DON'T'T-FALL
INCA
inCASA
iStopFalls
I-SUPPORT
PERSSILAA
IN LIFE LONG LASTING MEMORIES
MARIO RADIO
ROBOT-ERA
SILVER
SOCIABLE
STOP AND GO
UNIVERSAAL

European Commission

European Innovation Partnership on Active and Healthy Ageing

EIP on AHA is driven by **Action Groups** (Commitments & Collaborative Works) and **Reference Sites** (Regional ecosystems):

- **Individual commitments** and **collaborative works** clustered in 6 Action Groups
- **Reference Sites** i.e. coalitions of regions, cities, integrated hospitals or care organisations aimed at providing a comprehensive, innovation-based approach to active and healthy ageing

- Increase the average healthy lifespan by two years by 2020 and to pursue a a Triple win for European citizens
- **103 Reference Sites** to scale up innovation for active and healthy ageing
-
- More than **1200 organisations**, researchers, stakeholders in the Action Groups
- Twinning Schemes

AAL Achievements

The AAL Programme has delivered in multiple areas:

- It has **helped develop solutions** that are **used by older adults** and their networks, promising meaningful change to their lives
- AAL-funded solutions are being used by **carers in formal health and care settings**
- It has helped raise **awareness**, create new **skills & collaborations**, and lay the foundation for **market segments** across Europe

AAL has strengthen the Industrial base in Europe:

- 31 solutions have been developed and commercially launched in 13 EU countries
- 24 AAL-funded projects or 12% of all projects launched a solution
- Growing number of paying customers of solutions contribute to increased revenue by companies

Achievement booklet: http://www.aal-europe.eu/wp-content/uploads/2020/04/REVISED_AAL_8pp_new_goals_A4_LEGACY-DOCUMENT_ready.pdf

European Commission

Robotics for Ageing Well

www.ict-acanto.eu

2015-18 – Robotic Friend

www.accra-project.org

2016-2019 – Robotics, Japan

www.i-support-project.eu

2015-18 – Robotic Shower System

www.growmeup.eu

2015-18 – Self learning Robot

www.caressesrobot.org

2017-20 – Culture aware robots

www.ramcip-project.eu

2015-18 Service robot for mild cognitive impairment

www.mario-project.eu

2015-18 Interacting Robot for Dementia

Innovating elderly care

SAAM - Supporting Active Ageing through Multimodal Coaching, with the creation of a virtual assistant. Extend, as much as possible, the active and independent life of people over 60 years of age living in their own homes, as well as to support the work of those taking care of them (family, friends, and social carers). https://saam2020.eu/ *2017-20*

vCare aims to provide a smart coaching solution grounded on personalized care pathways. vCare stands for Virtual Coaching activities for rehabilitation in elderly and aims at an improved rehabilitation for people as they age. https://vcare-project.eu/ *2017-2021*

Delivering personalised integrated health and social care services, better outcomes for older people and improved care experience. https://projectvaluecare.eu *2019-2023*

ICT platform helping the family, caregivers and social care systems to share information on activities, conditions and moods of those they care about. A trusted ecosystem for apps providers. www.ehcobutler.eu *2015-2017*

European Commission

Innovative solutions for independent living

SMARTBEAR

2019-2023

Integrated Platform -sensors, assistive medical and mobile devices enabling continuous data collection from the everyday life of the elderly, which will be analysed to obtain the evidence needed in order to offer personalised interventions promoting their healthy and independent living.

WORKINGAGE

2019-2022

Measuring the user **emotional/cognitive/health state** and create communication paths. Promoting healthy habits of users in their working environment and daily living activities in order to improve their working and living conditions.

sustAGE

Person-centered solution for promoting the concept of "sustainable work" for EU industries, focuses on the **support of the employment and later retirement of older adults** from work and the optimization of the workforce management. *2019-2021*

COADAPT

Framework providing principles for a two-way **adaptation in support** of ageing citizens, defining three types of smart adaptations in work systems with different level of technology sophistication. *2018-2022*

seefar

Digitally enabled adaptive solution supporting ageing **workforce with vision loss**, an age-related condition, to remain actively involved in professional life. *2018-2021*

smartwork

Worker-centric AI system for **work ability sustainability**, integrating unobtrusive sensing and modelling of the worker state with a suite of novel services for context and worker-aware adaptive work support. It empowers the employer with AI decision support tools for efficient task completion and work team optimization through flexible work practices. *2019-2021*

BIONIC

body information on an intelligent chip

Platform for realtime **risk alerting and continuous coaching**, enabling the design of workplace interventions adapted to the needs and fitness levels of specific ageing workforce. *2019-2021*

ageing at work

HR Health Management for Older Workers

ICT-based, personalized system to support ageing workers into designing fit-for-purpose work environments and managing flexibly their evolving needs. *2019-2021*

European Commission

Pending programmes adoption

New MFF and complementarity of investments in Digital

EU-wide collective effort					National regional and local			Financial instrument
Horizon Europe	Digital Europe	CEF	Creative Europe	Health	Cohesion	Agriculture Funds	RRF	InvestEU
Research Innovation	Strategic capacities: computing, data, testbeds etc. Advanced digital skills EU-Wide deployment	Broadband and 5G roll out Connecting Communities	Creative industry Media	Telemedicine eHDSI	Digital connectivity in white and grey areas Support to enterprises in line with Smart specialisation Digital skills for all citizens	Making use of Big Data for CAP monitoring Broadband rollout in rural areas	Connect Scale-up Modernise Reskill and Upskill 20% digital	Leverage private capital for investments in SMEs, research, digital, infrastructure, skills…

European Commission

Digital Europe Programme:

recap the main objectives

strategic autonomy

Compete globally

Other regions of the world invest huge amount of public capital in advanced technologies. For example, the US and China spend € 10-20 billion annually on AI alone

Achieve scale through collective co-investments

Given the size of investments needed, scale required and risks involved Europe needs to pool the resources together

Regain control over Europe's value chains

and ensure Europe's technological sovereignty

Better address Europe's economic and societal challenges

E.g. climate, health, mobility and public services

Ensure broad take-up of digital technologies across all regions of EU

In deploying latest technologies to offer best services to citizens and business

Support SMEs to acquire or access the latest technologies and skills

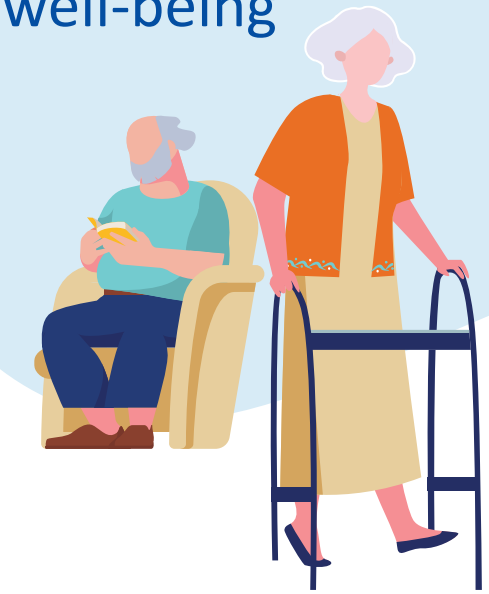
More than 400,000 EU vacancies in these fields

European Commission

Lifecycle approach

Formative years:
life-long learning, healthy & active ageing

Growing needs:
healthcare,
long-term care /
mobility, connectivity,
well-being



Working age: labour markets, productivity, innovation and business opportunities

Retirement: volunteering, intergenerational relations / adequate, fair and sustainable pension systems, old age poverty

Territorial aspects

Policy focus beyond 2020

- **From Active and Healthy Ageing to Active and Healthy Living**
- **Green Paper on Ageing** : Long-term care and digital + Active and Healthy Ageing with Digital tools and digital skills
- **Focus on:**
  - Life-course health and wellbeing promotion
  - Active ageing at the workplace, Independent living and Integrated care
  - Silver economy and support to an EU single market for innovative health solutions for AHA (**IHI**)
  - Age-friendly environments, cities and communities (**New European Bauhaus**)
  - Implementation practices and deployment (repositories, knowledge sharing, market place) => **IN-4-AHA**
  - Capacity building & Digital skills (**Twinnings, DEP, HE, ERDF**)
  - Promote International Cooperation on AHA (**IDIH, EU-Japan, EU Canada)**

European Commission

Active and Healthy Living in the Digital World

Active and Healthy Living in the Digital World is a multi-stakeholder forum of EU citizens, patients, health and care providers, government authorities, innovators, researchers, civil society and policy makers engaged in discussion, exchange and dissemination of innovations, policies and challenges related to active and healthy living and aging with digital tools.

Subscribe to our newsletter >

- Wellbeing and Health promotion
- Ecosystems and Deployment
- International Cooperation
- Silver Economy & HealthTech
- Age-Friendly environments
- Digital Health Literacy

Active and Healthy Living in the Digital World

- Membership is open to all stakeholders involved in the field of Active and Healthy Living and Ageing with Digital tools.
- Everybody can publish a best practice, news, events, policy documents in the library.
- Aim: increase collaboration and dissemination of results and best practices, break silos and increase the visibility of the topic to all citizens, policy makers and communities throughout the EU.
- A monthly newsletter is sent-out.
- Six sub-platforms working on specific challenges.
- IN-4-AHA is co-manager and Action Groups of the EIP-AHA will work on the platform.

https://futurium.ec.europa.eu/en/active-and-healthy-living-digital-world

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