



# European Health Data Space, Ageing society and the Digital Europe programme

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# Impact of Demographic Change in Europe and in Regions

1

In 2018, life expectancy at birth increased to **78.2 YEARS** for men and **83.7** for women.



This growth is projected to continue: men born in 2070 are expected to live **86 YEARS**, and women **90**

2

In 2018, the average number of childbirths per woman was **1.55** and their median age at childbirth **31.3**.



3

By 2070... the share of people **65 years or older** is projected to be



**30.3%** (compared to 20.3% in 2019)

the share of people **80 years or older** is projected to be **13.2%** (compared to 5.8% in 2019)



4

In the EU as a whole, the composition of our households is changing – households composed of two parents with children are being joined by households consisting of people living alone, single parents or couples without children.



5

Some of us opt to move around or live abroad, but the size of these flows is volatile and can change quickly.



**The Commission's Demography Report** presents the main drivers of demographic change and the impact they are having across Europe. It launches a process that will help identify concrete actions and solutions, mindful of lessons learned from COVID 19, to support people, regions and communities that are most affected and to enable them to adapt to changing realities.

Scarcely populated areas and lower connectivity

Long-term chronic, complex medical conditions

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 for healthcare workforce and citizens/patients

COVID-19 challenges (isolation, mental health)

Lack of uptake of digital innovations and eServices

6

The share of Europe's population in the world is shrinking and by 2070 it will account for just about **4%** of the world's population.



2020

2070

# Lifecycle approach

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



**EU Care Initiative**

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



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



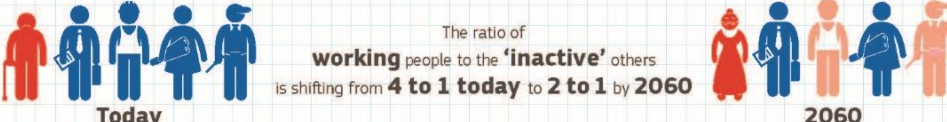
**Working age:** labour markets,  
productivity, innovation and  
business  
opportunities




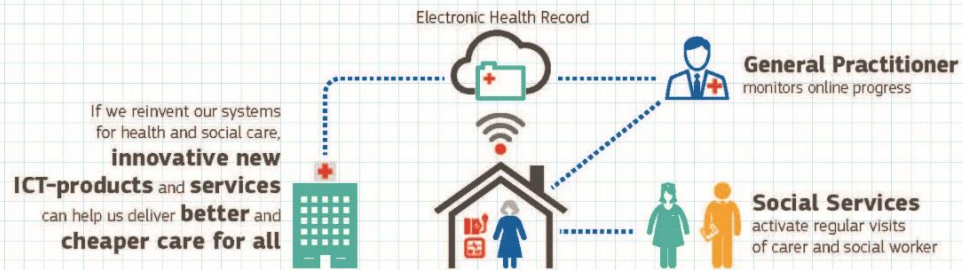
**Territorial aspects**

# The Silver Economy

Europe is ageing  By 2060 one in three Europeans will be over 65


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




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 

# Silver Economy

- The European Commission has launched a [Silver Economy strategy](#). It is estimated that by 2060 at least one in three Europeans will be over 65. If we take the right measures, the economy can grow, because Europe boasts an innovative ICT industry with both large companies and innovative SMEs, developing many new products and services.
- It is estimated that Active Ageing in good health will allow older people to:
  - travel more,
  - work longer,
  - learn new things
  - live independently in our own homes.
- Innovative new digital technologies and services can help us deliver:
  - better and cheaper care for all
  - integrated therapeutic solutions
  - growing Health Tech Industry through innovations and products, such as care robots or mobile health applications monitoring health status and it offers
- The Silver Economy offers:
  - new highly skilled tech jobs,
  - reskill low qualified population

# 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 strengthened 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

# Active and Healthy Living in the Digital World



European Innovation Partnership on Active and Healthy Ageing

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**Active and Healthy Living in the Digital World** is a multi-stakeholder information and communication hub for European citizens, innovators, patients, health and care providers, researchers and policy makers engaged in research and innovation, deployment, exchange and dissemination of best practices, innovative solutions, scientific collaboration and policies related to active and healthy living and aging with digital tools. It builds on the achievements of the [European Innovation Partnership on Active and Healthy Ageing](#) and promotes active and healthy living throughout the life-course.



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**Wellbeing and Health promotion**



**Ecosystems and Reference Sites**



**International Cooperation**



**Silver Economy & HealthTech**



**Age-Friendly environments**



**Digital Health Literacy**

# 103 Reference Sites and Twinnings

**EIP on AHA**

**GEOGRAPHIC COVERAGE**  
OF THE EIP on AHA REFERENCE SITES

**in4aha**

**Twinning activities**  
Call for applications

**Who?** EIP on AHA Reference Sites  
**Deadline:** 10 December 2021

# Digital transformation of health and care

## Digital Health and Care



TRANSFORMATION OF HEALTH AND CARE IN THE DIGITAL SINGLE MARKET - Harnessing the potential of data to empower citizens and build a healthier society

### European health challenges

- ⊗ Ageing population and chronic diseases putting pressure on health budgets
- ⊗ Unequal quality and access to healthcare services
- ⊗ Shortage of health professionals

### Potential of digital applications and data to improve health

- ✂ Efficient and integrated healthcare systems
- ✂ Personalised health research, diagnosis and treatment
- ✂ Prevention and citizen-centred health services

### What EU citizens expect...

- 90% agree** To access their own health data (requiring interoperable and quality health data)
- 80% agree** To share their health data (if privacy and security are ensured)
- 80% agree** To provide feedback on quality of treatments



### Support European Commission:

#### 1 Secure access and exchange of health data

##### Ambition:

Citizens can securely access and share (e.g. with doctors or pharmacies) their health data anywhere in the EU.

##### Actions:

- eHealth Digital Service Infrastructure will deliver initial cross-border services (patient summaries and ePrescriptions) and cooperation between participating countries will be strengthened.
- Proposals to extend scope of eHealth cross-border services to additional cases, e.g. full electronic health records.
- Recommended exchange format for interoperability of existing electronic health records in Europe.



#### 2 Health data pooled for research and personalised medicine

##### Ambition:

Shared health resources (data, infrastructure, expertise...) allowing targeted and faster research, diagnosis and treatment.

##### Actions:

- Voluntary collaboration mechanisms for health research and clinical practice (starting with "one million genomes by 2022" target).
- Specifications for secure access and exchange of health data.
- Pilot actions on rare diseases, infectious diseases and impact data.



#### 3 Digital tools and data for citizen empowerment and person-centred healthcare

##### Ambition:

Citizens can monitor their health, adapt their lifestyle and interact with their doctors and carers (receiving and providing feedback).

##### Actions:

- Facilitate supply of innovative digital-based solutions for health, also by SMEs, with common principles and certification.
- Support demand uptake of innovative digital-based solutions for health, notably by healthcare authorities and providers, with exchange of practices and technical assistance.
- Mobilise more efficiently public funding for innovative digital-based solutions for health, including EU funding.



*We need to make the most of the potential of e-health to provide **high-quality healthcare and reduce inequalities**. I want you to work on the creation of a **European Health Data Space to promote health-data exchange and support research on new preventive strategies, as well as on treatments, medicines, medical devices and outcomes**. As part of this, you should ensure **citizens have control over their own personal data**.*

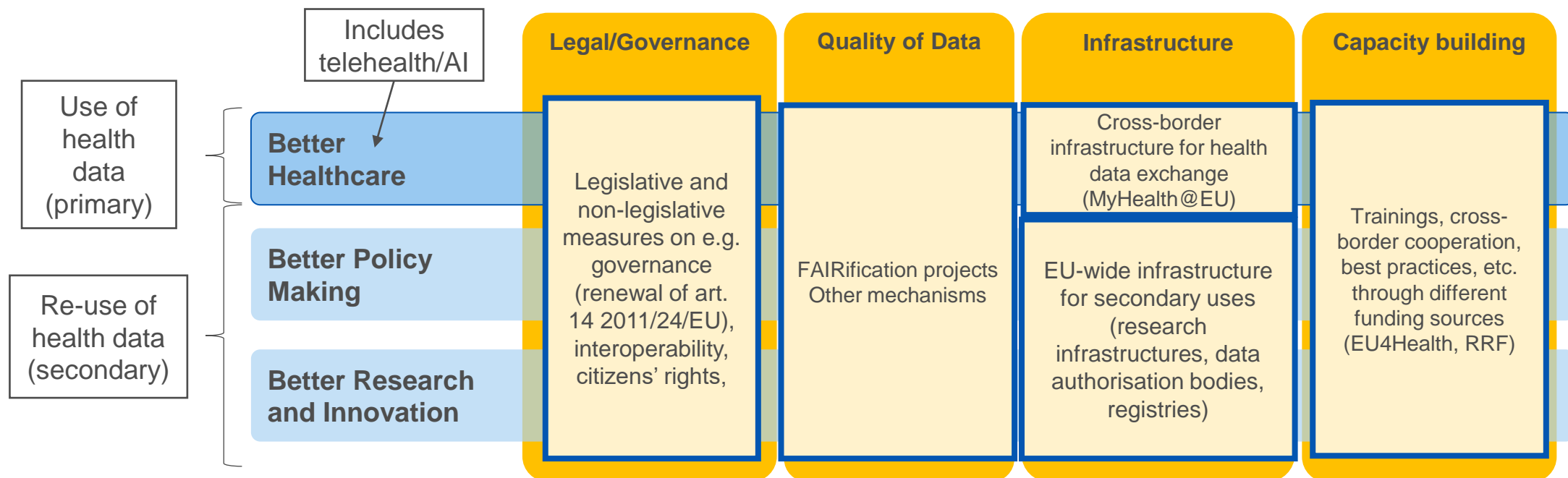


Mission letter of Stella Kyriakides  
Commissioner for Health



# Primary and secondary uses of health data

- Timely and simplified *exchange of* and *access to* health data for different use cases, e.g. research on cancer, pharmacovigilance, etc., but also for healthcare provision.



# 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...

# Health in Digital Europe

Cloud, data and Artificial Intelligence

Data spaces

Health data  
space

Testing and  
Experimentation  
Facilities

TEF  
for  
Health

Cybersecurity and  
trust

Support to the  
health sector

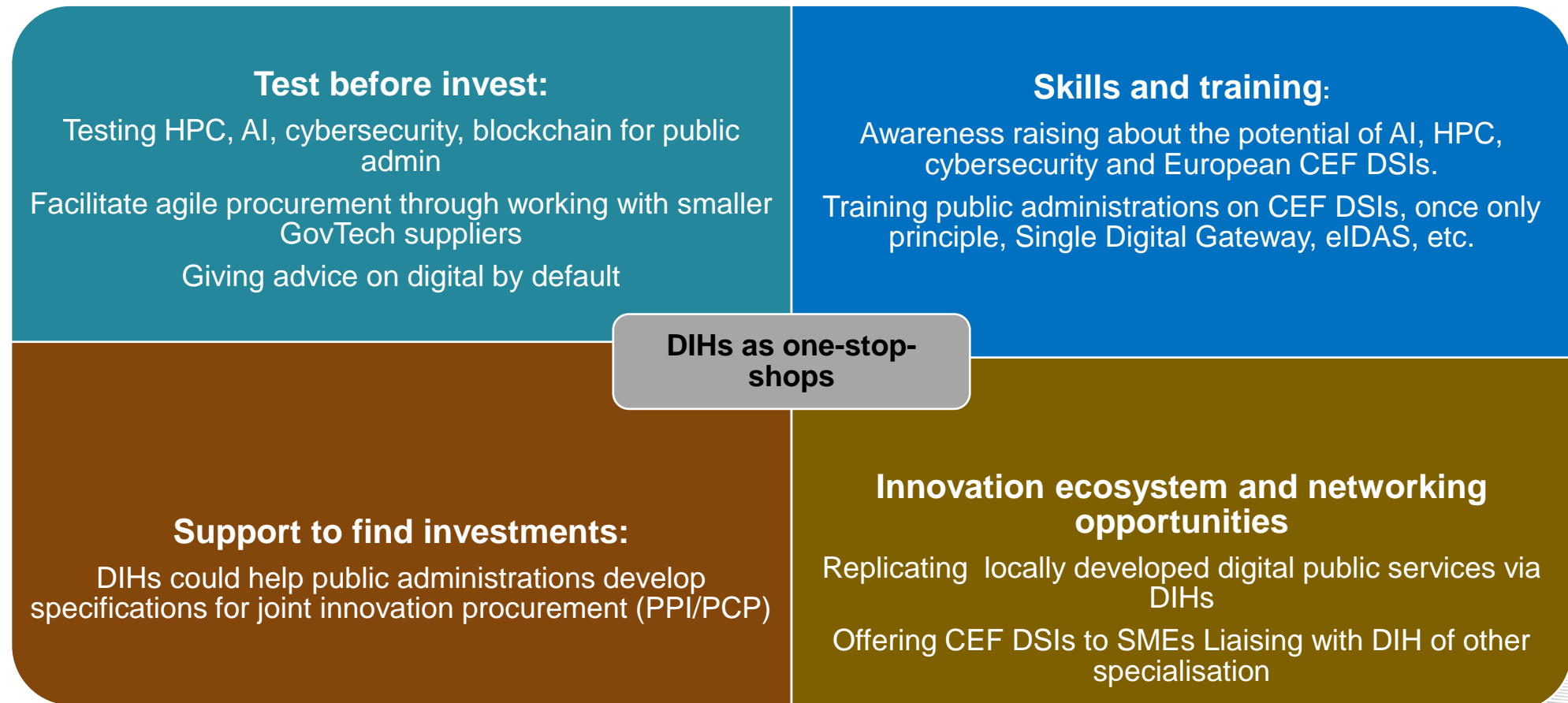
Accelerating best  
use of  
technologies

Digital  
Transformation  
of Health &  
Care

Digital  
Innovation  
Hubs

**Cancer Imaging Initiative and Genomics**

# European Digital Innovation Hubs provide technological expertise and experimentation facilities to enable the digital transformation of the industry and the public sector



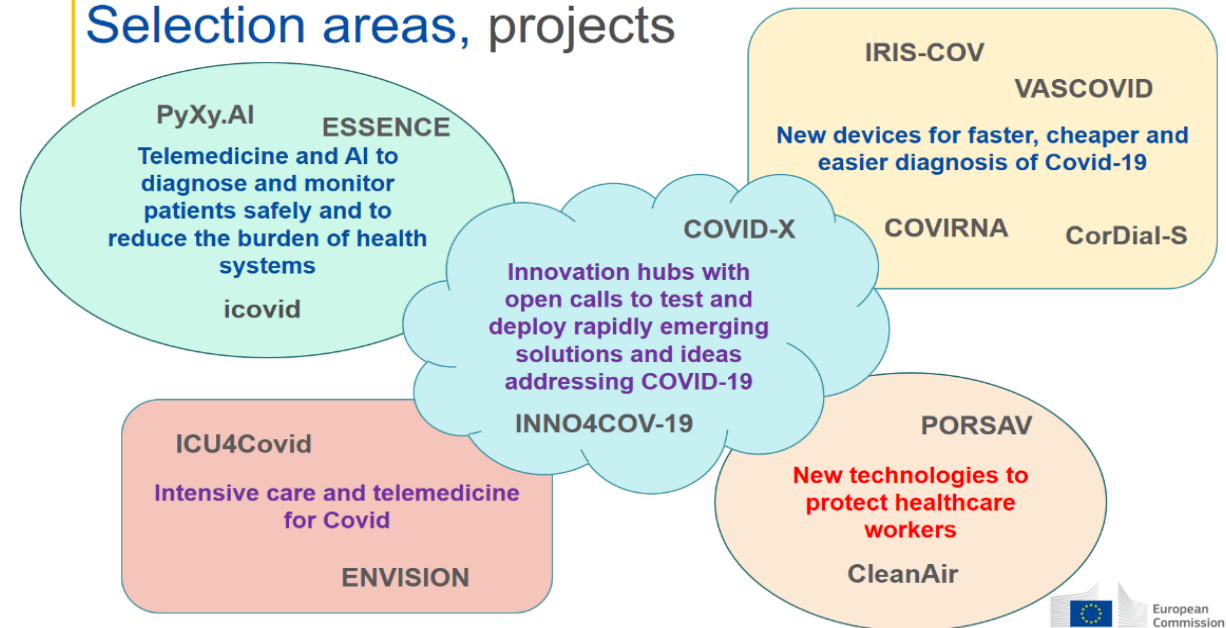
# Medical technologies, Digital tools and Artificial Intelligence analytics to improve surveillance and care at high Technology Readiness Levels - H2020-SC1-PHE-CORONAVIRUS-2B

**Accelerating the deployment and market uptake of digital health technologies to fight COVID-19**

**133** organisations  
**25** countries  
**€55.2** million  
**24** months

#eHealth #COVID19 #StrongerTogether

## Selection areas, projects



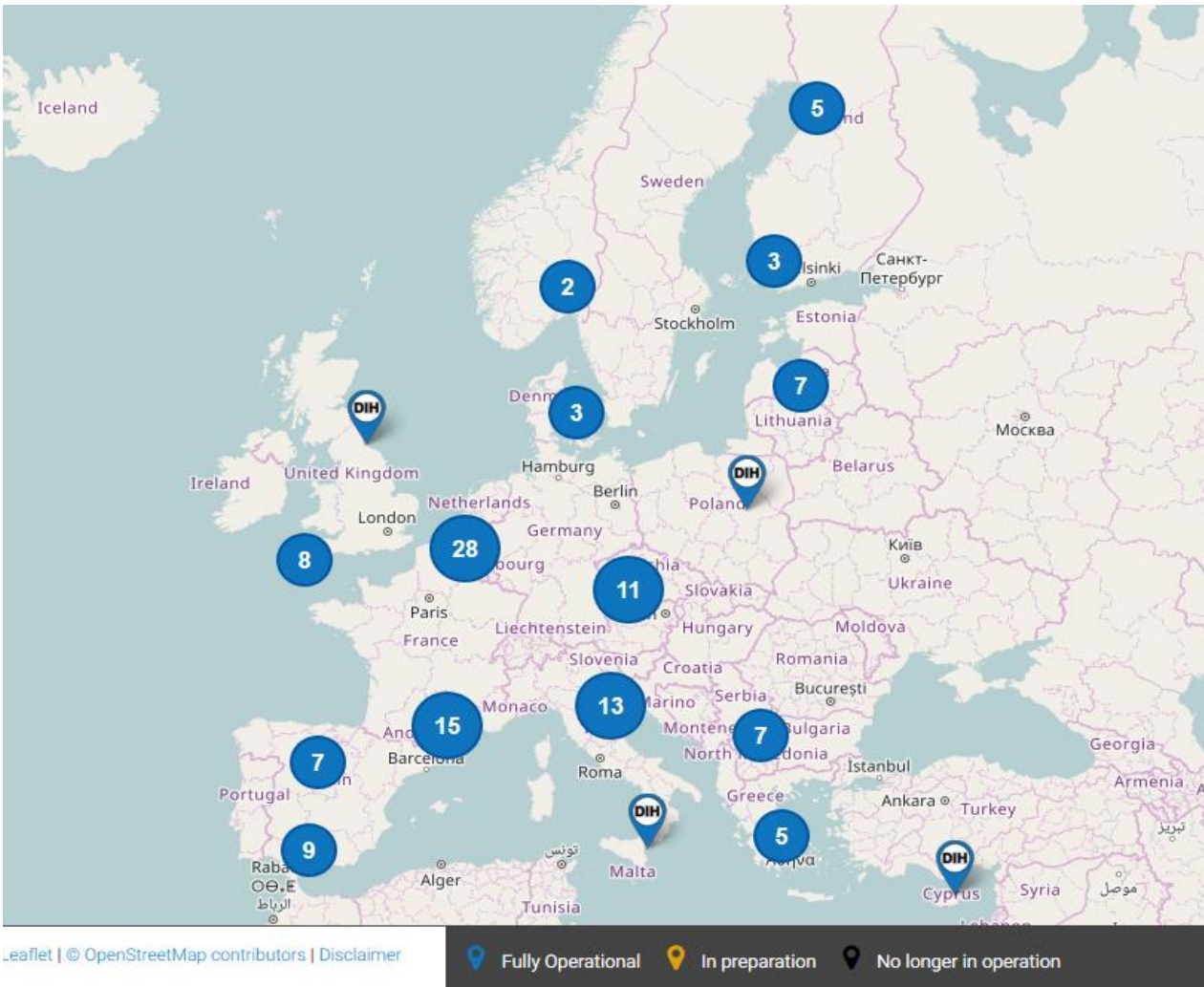
# Digital Innovation Hubs geographical coverage



- The map shows a network of currently 166 Digital Innovation Hubs that received investments from H2020, covering 94 different regions.
- The aim is to invest through the Digital Europe Programme in European Digital Innovations Hubs, covering 240 different regions.
- The Digital Innovation Hubs will be interlinked to the EEN and Startup Europe networks

**166 DIH** → **240 EDIH**

# Reference Sites + Digital Innovation Hubs can scale-up Innovation across EU Regions



**128 DIHs** offer services to health and care actors and contribute to the digital transformation process in this sector

**8 DIHs** focus exclusively on digital health

**DIH-HERO**