



NESTORE

Final Event

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DG CNECT H.3
'eHealth, Wellbeing and Ageing'*

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.





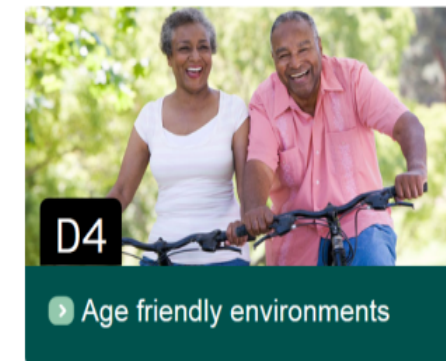
EIP on AHA is driven by **Action Groups**

(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 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**





WHO

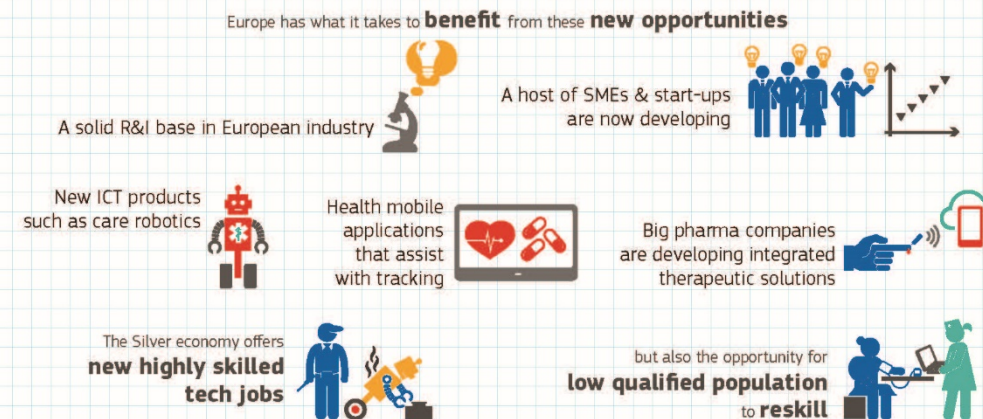
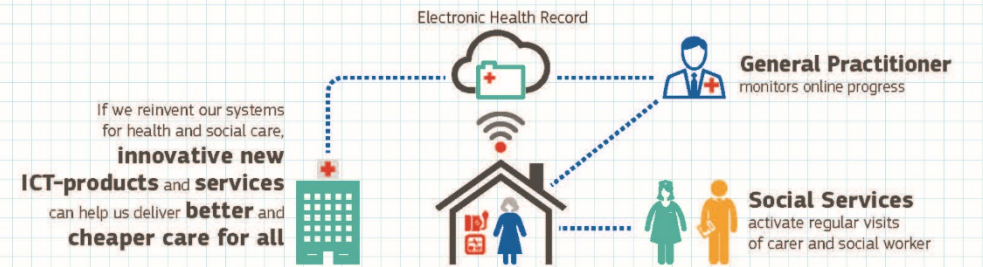
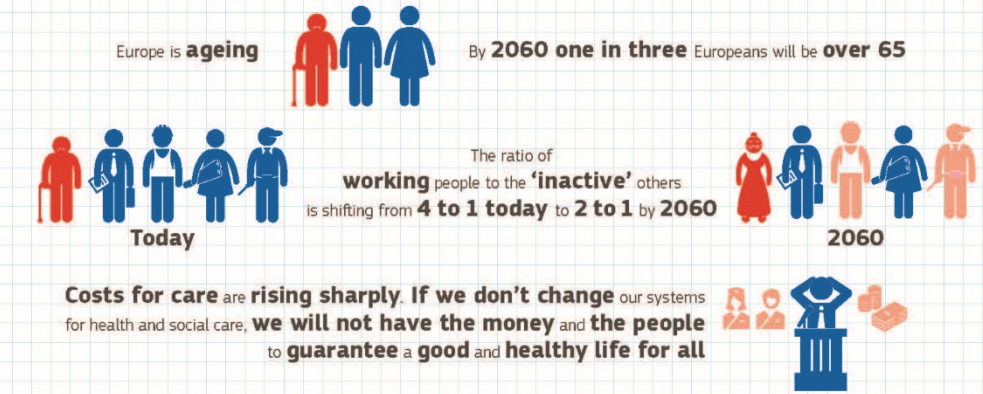
A unique public-public partnership of 26 public funding agencies:

- From currently 20 countries around Europe plus Canada
- R&D, innovation, health & regional support focus

WHY:

1. Enhancing older adults' quality of life through innovative digital technology-based solutions
2. Support long-term sustainability of health & care systems
3. Strengthening the emerging industrial base in Europe

The Silver Economy



Impact of Demographic Change in Europe

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**

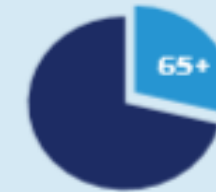
2

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)



Impact of Demographic Change in Europe

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.

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.



Next Steps:

- **Green Paper on Active Ageing**
- **Long-Term vision on Rural Areas**

Council Conclusions on Human rights, participation and well-being of older persons in the era of digitalization

(09 October 2020, German Presidency)

- **PROMOTE active and healthy ageing – including by using the positive impact of digital technology in public services, e.g. in health services – and longer working lives,**
- **MAKE AVAILABLE and SIMPLIFY telemedicine services and the use of digitally enabled health-related tools** as an additional option for persons at any age, thus lowering the risk of infections brought about through direct contact with sick persons in waiting areas and facilitating access to medical **and social** advice;
- **Calls the Commission to CONTINUE TO SUPPORT** Member States in actions aimed at the prevention of chronic diseases, health promotion and strengthening the development of long-term health care policies, with a focus on digitalisation; as well as to empower older persons to use digital technologies to better monitor their health independently, both for better prevention and person-centred treatment;

Green paper on ageing

27 January 2021

With the adoption of the green paper on ageing, the Commission launched a wide **public consultation**.



Brussels, 27.1.2021
COM(2021) 50 final

GREEN PAPER

ON AGEING

Fostering solidarity and responsibility between generations

Get Involved!

[Public consultation on the green paper on ageing](#) – until 21 April 2021

[Demography webpage](#)
[Green paper on ageing](#)

Lifecycle approach

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



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

Challenges for Innovation in Active and Healthy Ageing

- **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)
- **AI-powered tools enabling longevity medicine (HDT)**
- **Lack of uptake of digital innovations =>deployment, ecosystems, cost-effectiveness**

NEXT Multi-annual Financial Framework

- **Structural funds** (ESIF/ERDF) - supports the deployment of digitally enabled health and care solutions beyond pilot/proof of concept stage. A mapping of the investments in Health and eHealth for 2014-2020 is available [here](#).
- **Horizon Europe** partnership: “Transforming health and care systems”
- **EU4Health** -
- **Renovation Wave Strategy and the Bauhaus initiative** – Smart, green and sustainable housing; Accessibility, affordability and innovation (Age-friendly homes, communities and environments)
- **Recovery and Resilience Plan** – 750 Billion EUR
- **Digital Europe Programme** – AI, Cybersecurity, Interoperability, HPC, Skills, AI Testing and Experimentation Facilities, Digital Innovation Hubs...

Towards a European Partnership on Transforming Health and Care systems

Horizon Europe – Cluster 1 - Health

Destination 4: Ensuring access to innovative, sustainable and high-quality health care in the EU

Key problem drivers:

- Demographic changes.
- Poor uptake of technological innovations.
- Climate changes, environmental factors and globalisation.
- Changes in political and social landscape.

The opportunity offered by the THCS co-funded partnership:

To pool a critical mass of European/national/regional scientific resources to research, develop and test organisational, service and policy innovations. The context-specific knowledge and evidence will inform health policies and facilitate uptake of innovations, as well as their scaling-up and transfer to other countries and regions.

The General Objective: to ensure the transition towards more sustainable, resilient, innovative and high quality people-centred health and care systems.

Key Specific Objectives to be achieved by 2030:

1. To provide multidisciplinary research and innovation actions in priority areas of common interest **to fill knowledge gaps, produce evidence and develop guidance on how to transform health and care systems.**
2. To provide applied research/development and innovation actions in priority areas of common interest **to develop new solutions for health and care to support and maintain people's health.**
3. To **strengthen the research and innovation community** in the field of health and care systems across Europe.
4. To improve the ability of relevant health and care actors **to take up innovative solutions, including organisational, service and policy innovations.**
5. To establish a platform for connection and coordination of relevant stakeholders **to develop the ecosystems allowing for a swift scaling up and transfer of successful innovations** to different health and care systems.

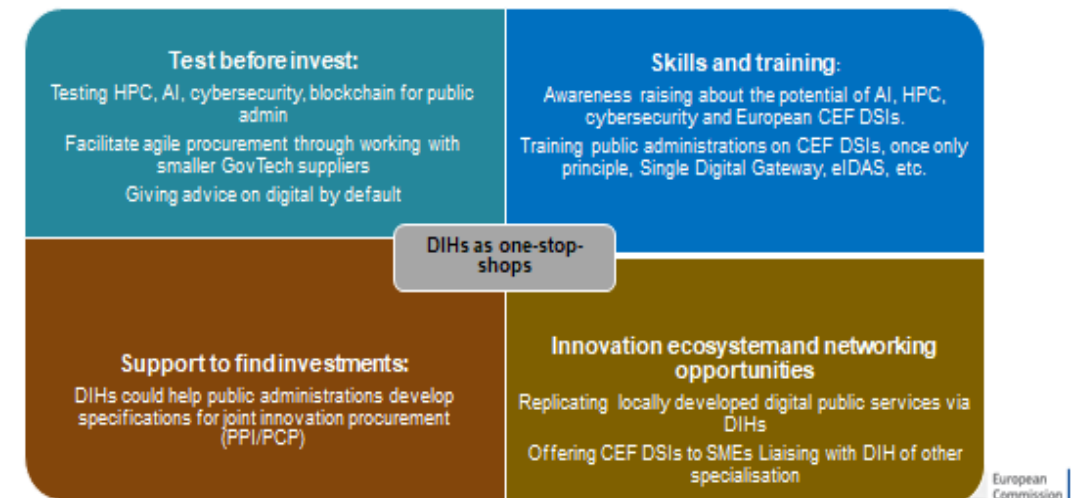
Digital Europe Programme

Artificial Intelligence on Testing and Experimentation Facilities in Health

- The purpose of Testing and Experimentation Facilities would be to enable innovators to fully test the accuracy, robustness and safety of AI digital health approaches by providing access to appropriate health data sets, as well as or number of cases, before deploying them. These facilities would be a resource to European innovators and be closely connected to hospitals, researchers and innovators.
- Use case: **Real world testing facility for Active and Healthy Ageing (village, district, care home)**

A network of DIHs working on scaling-up Innovation in Health

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



Thank you



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