

Transformation of Health and Care in a Digital Single Market

Accelerating Innovation Through Collaboration

Europe's future digital health and care strategy

- *Better access to your health data, everywhere in the EU*
- *Connecting health data*
- *Digitised patient-centred care*



 #DigitalHealth
#EUHaveYourSay

***DG Communications Networks, Content
and Technology (DG CONNECT)***

Directorate H Digital Society, Trust &
Cybersecurity

Unit H3, eHealth, Well Being and Ageing

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Health Research and Innovation in Horizon 2020





Horizon2020 WP 2018-2020

SC1, Health, demographic change and wellbeing

Call 'Better Health and care, economic growth and sustainable health systems'

5 main priorities & 43 topics

Call 'Digital transformation in Health and Care'

20 topics

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

5 topics

€ 2 Billion

Digital Single Market /// Mid-Term Review

- ✓ 16 key initiatives
- ✓ 35 proposals
- ✓ Further actions on:
 - data economy
 - cybersecurity
 - online platforms
& more

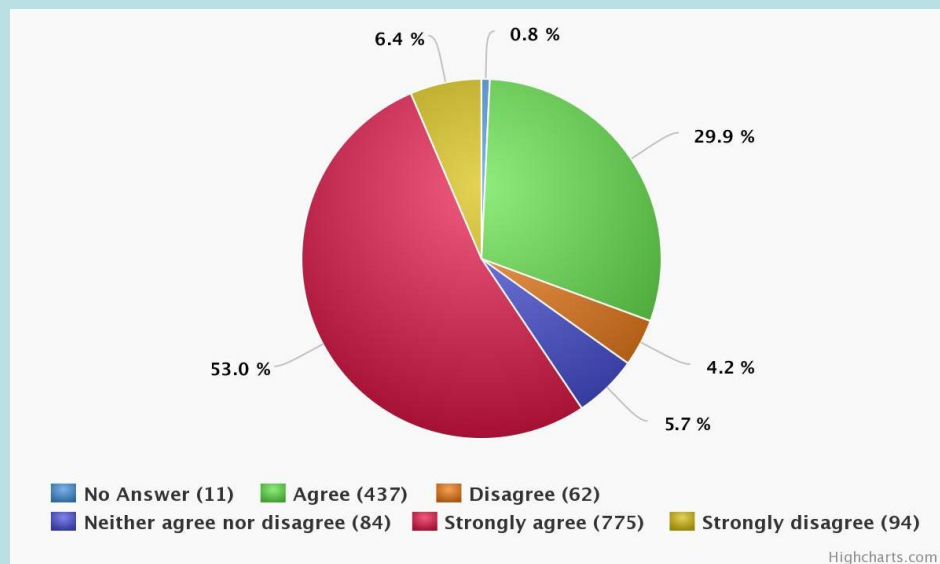


***One of the fields identified to deliver:
"Digital transformation of health and care"***

Open Public Consultation

1464 responses from 35 countries

More than 80% of respondents agreed that sharing of health data can improve treatment and prevent diseases.



Open Public Consultation

1464 responses from 35 countries

"What are the major barriers to electronic sharing of health data?"

Risk of privacy breaches

Heterogeneity electronic health records

Cybersecurity risks

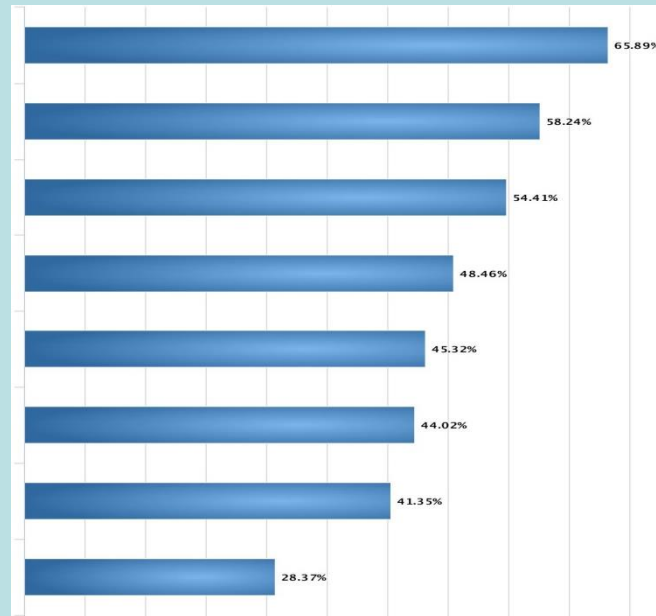
Data quality and reliability

Lack of infrastructure

Legal restrictions in member states

Lack of awareness

Lack of interest



3 priorities identified in the DSM mid-term review:





Prevention and early
risk detection



New therapies and
diagnostics



Personalised
Medicine



New health and care
models

Data-driven innovation

High-performance computing

Advanced Data-Analytics

Artificial Intelligence

*Cloud
computing*

***Internet of Things
(IoT)***

Telehealth

Wearables

mHealth

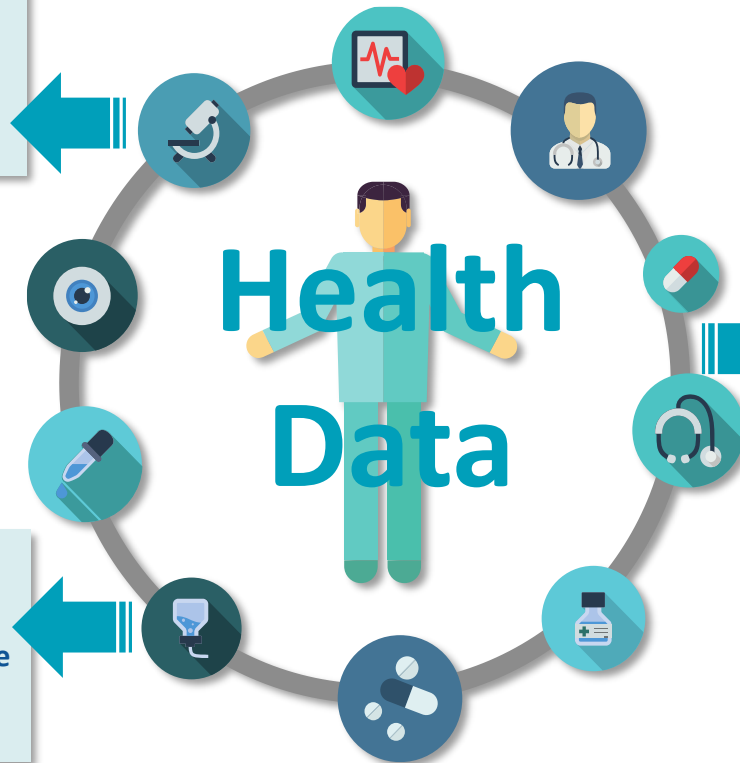
Early diagnosis

EU pooling of data and expertise can reduce from 5.6 years to less than 2 years the average time it takes to diagnose a rare disease.

But...only 9% of hospitals in Europe allow citizens to access online their own patient records, and most of those only give partial access...

Better Prevention

Europe has the **highest burden of chronic diseases** which are responsible for 86% of all deaths and 77% of health and long-term care expenditure.



But...the percentage of hospitals exchanging clinical care information about patients electronically with other health care organisations in another EU country is only 4%.

People-centric services

If widely adopted and integrated in health care systems, annual savings in Europe resulting from use of mobile health applications are estimated at €69 billion.

But...only 18% of citizens have used health and care services provided online without having to go to the hospital or doctor's surgery, in the last 12 months.

Why is patient empowerment important?



early diagnosis & better treatment



patients care for their own health & having healthier lifestyle



increased prevention



more efficient & sustainable healthcare



health professionals could **save 30%** of their **time** spent on accessing & analysing information

PROPOSED EU ACTION

Tackle fragmentation and support regulatory convergence on the supply of emerging digital health technologies across the EU.

Improve capacity building and technical assistance to Member States and regional authorities, addressing the demand side of digital transformation of healthcare.

Facilitate investment opportunities in Member States and regions. Leverage national, regional and private investments for the large scale deployment of digitally-enabled, integrated person-centred care.

- **Support Member States in the development of cross-border eHealth services, i. e. cross-border ePrescription and patient summary (eHealth DSI)**
- **Foster deployment of telemedicine and tele-monitoring, in particular in the context of the European Reference Networks**
- Develop guidelines on the security, safety and interoperability of mHealth apps
- International standardisation activities related to the IDMP



**Health &
wellbeing**

**Integrated
care**

**Cross-border
care**

**Independent
living & Active
Ageing**

**Sustainable
Health & care**

**Legal & market
conditions**

- *Research*
- *Innovation*
- *Social Innovation*
- *Policy*
- *Age-Friendly
Environments*
- *Health and Care*



- *EU level*
- *Member States*
 - *Regions*
- *Citizens and Civil
Society*
 - *Industry*
- *Research Community*



Creating the Framework

- Data ownership/ access > free-flow-of data, Public Service Information, non-exclusivity
- Privacy > GDPR, e-privacy
- Identification > eIDAS Regulation; safety
- Security > Network Information Security; medical devices
- Data quality and integrity
- Liability > AI, robotics
- Intellectual property





Regions at the core: Innovation and Transfer

Lodz Province

District Centres of Active Seniors with classes in lectures, physical activity, computer, culture

New courses at Medical University on "Managed Senior Care"

Inclusion areas for seniors

Senior Citizens Council



UNIwersYTET
MEDYCZNY
W ŁODZI



LODZ4GENERATIONS

EIP-AHA was designed as a structured response to these challenges

6 ACTION GROUPS



A1

➤ Adherence to prescription



A2

➤ Falls prevention



A3

➤ Functional decline and frailty



B3

➤ Integrated care



C2

➤ Independent living solutions



D4

➤ Age friendly environments

*Launched to increase the **average healthy lifespan by two years by 2020** and to pursue a **Triple win** for European citizens*

Exchange and mutual learning

*Twinning in the
European Innovation
Partnership on Active
and Healthy Ageing*



EIP ON AHA

European Innovation Partnership on Active and Healthy Ageing
2016 Pilot Twinning Support Scheme

43 twinning organisations from 13 countries



 Twinning partner

Member State cooperation

Declaration for delivering cross-border access to **genomic database**

- 1 million **genomes accessible** in the EU by 2022
- **Linking access** to existing and future genomic database across the EU
- Providing a sufficient scale for **new clinically impactful** results in research

2018 | DIGITAL
DAY

#DigitalDay18





Thank you!

@eHealth_EU

@DSMeu

@horstk