

Policies to promote a digital infrastructure that supports Digital Health Innovations

Silvia VICECONTE

EUROPEAN COMMISSION DG CONNECT



Setting the framework

The EU: An integrated digital market: the DSM

The Digital Single: Name ket Strategy

European Commission



Better access for consumers and businesses





Maximise the growth potential of the digital economy

THE STRATEGY AT A GLANCE

- Geo-blocking
- E-commerce (digital contracts, consumer protection)
- Copyright
- Parcel delivery
- VAT
- Telecoms market
- Media services
- Platforms and intermediaries
- Trust and security (e-privacy, cybersecurity cPPP)
- Data Economy
- Inclusive digital society
- Interoperability and Standardisation
- Digitisation of European industry

European Council implementation deadline: 2018



Digital Single Market Mid-term Review (2017)

I. Taking stock of what has been achieved since 2015

II. Future Agenda

- Ensuring a fair, open and secure digital environment: online platforms, data economy, cybersecurity
- Managing the digital transformation: Digital Skills,
 Digitisation of industry, eHealth, eGovernment, Connected mobility, High Performance Computing (HPC), Investment
- International Dimension



Some basic conditions for innovation in e-health

- (1) A data economy
- (2) Security of the networks: trust is a must
- (3) Government and industry need to be aligned in managing the digital transformation

Improve the Digital Environment (1)

Unlocking the DATA ECONOMY

- The EU data economy grew by **21.53%** from 2013 to 2016
- The data economy can reach €739bn by 2020 (4% of EU GDP)







- Removing data localisation restrictions in the EU (one of the most important factors for the data economy to double its value to 4% of GDP in 2020) ... balanced by a principle of data availability for regulatory control
- Enhancing legal certainty for businesses on storing and processing data in other EU Member States

Yet to come:

An initiative on accessibility and reuse of public and publicly funded data (*April 25 2018*)

Improve the Digital Environment (2)

Boosting CYBERSECURITY

- European Commission
- 6 billion household devices will be connected to the internet by 2020 in the EU
- More than **4,000 ransomware attacks** have occurred every day since the beginning of 2016 (a 300% increase over 2015)
 - ✓ Review of European Union Agency for Network and Information Security (ENISA)
 - greater operational responsibilities and a stable footing for the future to reflect the new reality and needs in cybersecurity
 - **✓** A European Cybersecurity Certification Framework:
 - to avoid the fragmentation of cybersecurity market, and
 - to make it easier for purchasers to understand the security features of the ICT products and services
 - ✓ A Blueprint for a coordinated response to large scale cybersecurity incident and crises

Managing the digital transformation (3)

Commission

E-GOVERNMENT

- Digital technologies allow public authorities to deliver services more quickly, more precisely and more efficiently
- EU eGovernment Action Plan 2016-2020: aims to accelerate and broaden the scope of digitisation of public administrations

DIGITISING EUROPEAN INDUSTRY

- The process of boosting digital skills must go hand in hand with the up-take of digital technologies by companies of all sizes and industries.
- Digitising European Industry
 Commission: adopted in April 2016 to
 help European businesses reap the full
 benefits of digital technology

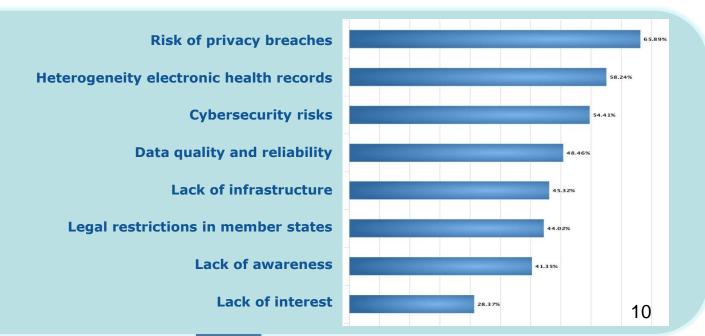


Patient health data and e-health services



Open Public Consultation run in 2017

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





Open Public Consultation

Transformation of Health and Care in the Digital Single Market

What the EU should do to overcome barriers to access and sharing of health data?

Develop standards for data quality and reliability (#1) and **Standardise EHRs (#2)** are the top EU actions supported by the majority of respondents when asked "What should the EU do to overcome barriers to access and sharing of data".

This is followed by "health-related cybersecurity standards" (#3) and "support interoperability through open exchange formats" (#4).



DIGITAL HEALTH CHALLENGES IN THE EU

Limited access to health records across borders (citizens and professionals)

52% of European citizens wish to have online access to their healtl
 records (incl. health data, prescriptions and medical records)



- Only 9% of hospitals in Europe allow citizens to access online their own medical records (and most only give partial access)
- Exchange between professionals and health care organisations: The percentage of hospitals exchanging clinical care information about patients electronically with other health care organisations remains low. Exchange of care information within the same country ranges from 33% to 39%, whereas exchange with health and care providers in another EU country is only 4%.



DIGITAL HEALTH CHALLENGES IN THE EU (2)

No secure infrastructure to exchange health data across borders to advance research and personalised medicine.

Citizen's willingness to share personal health data: Overall, seven in ten (70%)
would be willing to give their health and personal wellbeing data to others
through a secure infrastructure.

Low integration of digital health tools with health & care services

 Citizen's use of digital health and care tools / services: 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

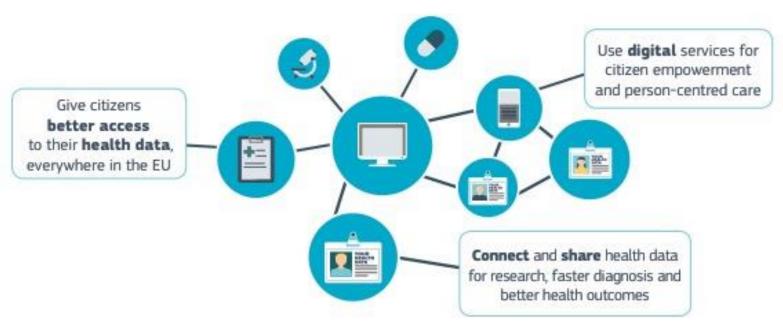


Policy needs

- ✓ secure cross-border access to electronic health records and use of eprescriptions
- ✓ supporting high-performance computing capacity to unlock the potential of big data for health through advanced data analytics
- ✓ facilitating feedback and interaction between patients and healthcare providers



3 priorities identified in the DSM mid-term review:





Upcoming policy EC Communication

PILLAR 1

Citizens' secure access to electronic health records and the possibility to use it across borders

Citizens can exercise their right to access, manage and use their health data across the EU though an interoperable European Electronic Health Record exchange format.

PILLAR 2

Accelerate personalised medicine through a decentralised European data infrastructure for genomic data

Researchers and professionals can pool resources (data-sets, scientific expertise and HPC) across the EU, leading to better health prevention, faster and more personalised diagnosis and treatment

PILLAR 3

Foster citizen empowerment and person-centred care with the use of digital tools supporting user feedback and interaction

Enable citizens and health care systems benefit from digital tools that empower people to look after their health, stimulating prevention, and enabling feedback and interaction with health care providers.



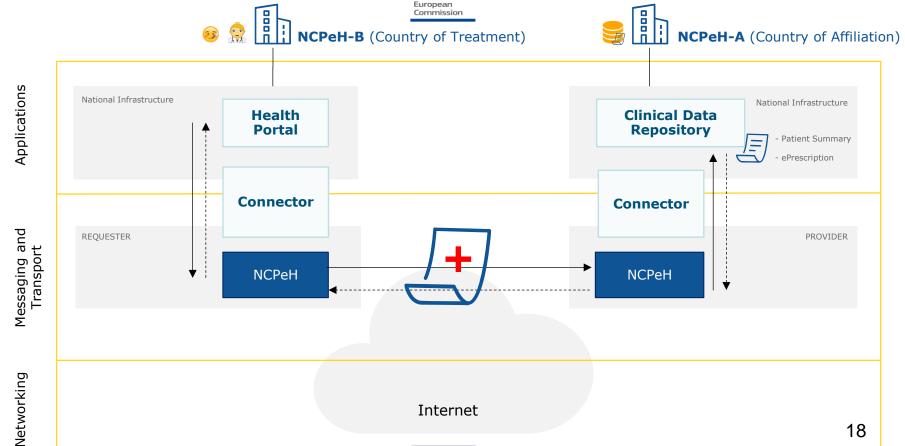
EU initiatives in practice

The CEF eHealth Digital Service Infrastructure

Research funding- overall Horizon 2020

CEF eHDSIThe interoperability challenge







Horizon2020 draft WP 2018-2020

SC1, Health, demographic change and wellbeing

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

Call 'Digital Transformation in Health and Care'

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





The international dimension

- Role of data flows regulation- GDPR and trade agreements
- Possible use of soft instruments-MoUs
- An evidence based discussion- the OECD's Going Digital



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