eHealth and DSM, Digital Single Market

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Interoperable data, access and sharing

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Challenging times

- Ageing population
- Increased demand for high quality of care
- Lack of resources
A DIGITAL SINGLE MARKET FOR EUROPE

WHY DO WE NEED A DIGITAL SINGLE MARKET?

- Only 59% of Europeans can access 4G networks
- 90% of jobs will soon require digital skills
- + €11 billion in savings for consumers when shopping online
- Small businesses could save €9,000 per market on legal and translation fees thanks to harmonised national laws in the EU
- 52% of cross-border purchases are blocked
COM will adopt a Communication in 2017 addressing the need and scope for further measures in the area of digital health and care, in line with legislation on the protection of personal data, patient rights and electronic identification, in particular as regards:

- **citizens’ secure access to electronic health records and the possibility to share it** across borders and the use of e-prescriptions.

- **supporting data infrastructure, to advance research, disease prevention and personalised health and care in key areas.**

- **facilitating feedback and interaction between patients and healthcare providers, to support prevention and citizen empowerment as well as quality and patient-centred care**, focussing on chronic diseases and on a better understanding of the outcomes of healthcare systems.
PILLAR 1
Citizens in control of their health data: access and share throughout the EU digital single market.

PILLAR 2
Researchers and health care professionals can pool resources, data, expertise and computing capacity across the digital single market.

PILLAR 3
Innovative digital tools empowering citizens to look after their health and interact with health care workforce.
Focus in Health and Care

- Acute Care → Long-term Care
- Single Diseases → Multiple Chronic Conditions
- Passive Patient → Active Individual
- Institutional Care → Home Care
- Generic Approach → Personalised Health and Care
Interoperability
Technical, semantic, legal, organisational

Research and Innovation
FP7, CIP, H2020
Work Programme 2016 – 2017

Deployment and uptake
Funding
Awareness
Evidence
EIP AHA
Digital health literacy

International cooperation
MoU with the US
eHub with the WHO/ITU
Japan/G7 cooperation on ageing
EU HEALTH & AGEING LANDSCAPE

1. Boosting Jobs, Growth and Investment

- European Innovation Partnership on Active and Healthy Ageing EIP-AHA

- Horizon 2020 Societal Challenge 1 Health, Demographic Change and Wellbeing

- Active Assisted Living Joint Programme (AAL)

- European Institute of Technology- KIC on Health and Ageing

2. A Connected Digital Single Market

- Health policy
- Long term Care Strategy
- Ageing policy

- eHealth 2020, mHealth, Silver Economy Strategy

- Health & wellbeing
- Integrated care
- Disease management
- In-Silico Modelling
- Independent living & Active Ageing
- Early Risk Detection & Prevention
- Legal & market conditions
European Innovation Partnership on Active & Healthy Ageing

- Is a stakeholder-driven initiative launched by the European Commission to foster innovation in the field of active and healthy ageing
- Has been conceived for connecting & engaging public and private stakeholders across sectors that compose the innovation value-chain, to accelerate scaling-up of innovation for active and healthy ageing
- The EIP pursues a Triple Win for Europe

+2 Healthy Life Years by 2020

https://ec.europa.eu/eip/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
2.1 EUROPEAN INNOVATION PARTNERSHIP

EIP on AHA – first period of activity (2013-2016)

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

32 REFERENCE SITES 2012-2016

Reference Sites - coverage

[Map showing various regions and cities with asterisks indicating sites.

- Northern Netherlands
- Twente Province of Gelderland and Overijssel
- South Holland
- Province Noord-Brabant
- Slough
- London
- Liverpool
- Scotland
- Northern Ireland
- Wales
- Yorkshire
- Paris
- Re-de-France
- Pays de la Loire
- Lower Normandy
- Lower Saxony
- Moscow
- Munich
- Valencia
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DG CONNECT Activities and Events

Connecting Europe Facility (CEF)

WP 2017: €12 million allocated to the deployment of eHealth Digital Infrastructure

- **Objective**: facilitate cross-border exchange of Health data
  - ePrescriptions
  - Patient Summaries
  - European Reference Networks

- **Calls**
  - **Core services**: €3 million
  - **Generic services**: €9 million
  - **Published in 1st semester 2017**

*More info: [http://europa.eu/](!HG47Tf)*
Horizon 2020
Work Programme for Research & Innovation 2018-2020

The societal challenge 1 (SC1) 'Health, demographic change and well-being'
Health Research in Horizon 2020

- Collaborative R&I projects
- Public-Private Partnership with big Pharma
- Grants for small businesses
- Public-Public Partnerships with EU Member States & beyond
- Innovation challenges
- Horizon 2020
- More years, better lives
- Blue sky research
- Loans for small & large companies
- Prizes
- Education - R&D - Innovation
- Horizon Prize - Marie Curie actions
Health collaborative research – 7 priorities for 2018–2020

- Personalised medicine
- Decoding the role of the environment for health and well-being
- Infectious diseases and improving global health
- Innovative health and care industry
- Innovative health, and care systems - Integration of care
- Digital transformation in Health and Care
- Trusted Big Data solutions and Cybersecurity for Health and Care
7 priorities implemented via SC1 Work Programme 2018–2020 through 3 Calls for proposals

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

For call opening dates and proposal submission deadlines, please consult carefully the work programme as there may be several deadlines within the same call
SC1-DTH-08-2018: Prototyping a European interoperable Electronic Health Record (EHR)

European Electronic Health Record Prototype, Citizen-centred, user driven design as to ensure the early buy-in of final users citizens, healthcare professionals and scientists. An interoperable platform with demonstrated relevant functionalities at the different user levels. Federated architecture, open APIs.

Citizens' health data generated by the citizens themselves, healthcare professionals or sourced from relevant healthcare organisations.

Include relevant components to enable further medical purposes and health research. Extensible so as to be able to integrate subsequent types of data such as quantified-self data or Omics data.

European prototype implementation with embedded security, large scale testing and validation

It should demonstrate tested and validated functionality in exchange of realistic and fit for the purpose EHR datasets exchange bi-directionally between: 1. hospitals, 2. medical doctor practitioners and hospitals, 3. hospitals and citizen, 4. medical doctor practitioner and citizen 5. Cross-border hospitals and 6. Citizen and research database.
What is the EU's role in standardisation?

The EU supports an effective and coherent standardisation framework, which ensures that high quality standards are developed in a timely manner.

The European Commission issues standardisation requests and supports financially the work of European Standardisation Organisations (ETSI, CEN, CENELEC), but does not interfere with the standardisation setting conducted by industry or National Standardisation Organisations.

EU funded research and innovation projects also make their results available to the standardisation work of several standards-setting organisations.

Besides, consultations on general standardisation issues are launched on a periodic basis. The EU Rolling Plan for ICT Standardisation provides an overview of the activities to be undertaken in support of EU policies.
THANK YOU!

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