Deployment of Cross Border eHealth in Europe
Progress Update by the EU Commission

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#digital transformation in
#healthcare #EU
@IHE_Europe

Presentation Outline

• Directive on Patients’ Rights
• Digital Single Market Strategy
  1. Access to and sharing of data
     - eHDSI
  2. Research and use of data
     - ERN CPMS
  3. Empowering the citizens
Patients’ rights in Cross-border Healthcare

Directive 2011/24/EU

A major step towards a Europe for Health

Cooperation between Health Systems

- **Recognition of prescriptions**
  A prescription issued in another EU country will be recognised in a patient's country of residence and vice versa (2012).

- **eHealth**
  Towards interoperability of ICT for health at EU level for safety, quality and continuity of care, and health research.

- **European Reference Networks**
  Bring specialised centres across Europe together to help experts to diagnose and treat patients, disseminate information and expertise.
eHealth Network

- **Article 14 of Directive**
- **Leads cooperation** of Member States
- **Gives direction** to eHealth developments

Refined eHealth

European Interoperability Framework (ReEIF)

- Legal
- Legal and regulatory
- Policy
- Care Process
- Semantic
- Information
- Applications
- Technical
- IT Infrastructure

- Legal and regulatory constraints
- Collaboration agreements
- Alignment of care processes
- Defining and coding of information
- Integration in healthcare systems
- Communication protocols
Does Europe need a 5th freedom - free movement of data? Read the latest speech by @Ansip_EU on EUdataFF http://bit.ly/2dJinIQ digirev

Public Consultation – Summary of results

Citizens should be able to manage their own data:
>90% strongly agree or agree

Sharing health data can be beneficial:
>80% strongly agree or agree

Not having access to digital health services:
Nearly 60%

Citizen feedback to healthcare providers is essential to improve services:
>80% agree
Public Consultation
Main concerns and expectations

Privacy
Cybersecurity
Data quality
Standardised electronic health records

Health Priorities in the Digital Single Market Strategy

Pillar I: Give citizens better access to their health data

The eHealth Digital Service Infrastructure (eHDSI)

1. Enabling the exchange of patient data across borders
   - **Patient Summary**: provides access to health professionals to verified key health data of a patient during an unplanned care encounter while abroad
   - **ePrescription**: enables patients to receive equivalent medication while abroad to what they would receive in their home country

2. To be expanded to full Electronic Health Records

Cross-border Possibilities for Citizens

- Cross-border E-prescription
- Patient summary
Sweden and Finland: rapid increase in e-prescriptions

- **Paper**
- **Electronic**
- **Total**

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**eHealth Digital Service Infrastructure**

- **Core services**
- **Horizontal Building Blocks**
- **eHealth Building Blocks**
- **terminology server, ...**

- **Hospitals**
- **GPs**
- (...)

**NCP**: National Contact Points is Member State's connection to the EU network.
eHealth Digital Service Infrastructure (DSI)

Interoperability Challenge

2008-2014
Pilot the service infrastructure for cross-border health

2013-2015
Use common IT building blocks in different public policy areas

2014-2015
Maintain and develop interoperability assets, handover to CEF

eHDSI under CEF 2015 ->
Rely on the eHealth Network Guidelines Implementation by Member States and Commission
The interoperability challenge

Applications
- National Infrastructure
- Health Portal
- Clinical Data Repository

Networking
- Messaging and Transport
- Virtual Private Network

Actors
- Hospital
- Emergency
- Pharmacy
- NCPeH-B Country of Treatment
- NCPeH-A Country of Affiliation

eHDSI – NCPeH interoperability Profiles based on IHE X* family

[Diagram showing various actors, applications, and networking components related to health care systems and interoperability profiles based on IHE X* family.]
**eHealth Network**

- Article 14 of Directive
- Leads cooperation of Member States
- Gives direction to eHealth developments
- Adopts guidelines
  - Patient summary data
  - ePrescriptions
  - National Contact Point

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**Role of the eHealth Network guidelines**
What is the eHealth DSI

- Is it a Project?
- Is it a Pilot?
- Is it a Service?
- It is a EU Digital Service Infrastructure

Pillar II: Connect and share health data for research, faster diagnosis and better health outcome

- Connect different health data sets, scientific expertise and computing capacity federated across borders – through a decentralised European digital health infrastructure
- Advancement of high-performance computing, big data analytics and cloud computing for health research and personalized medicine
Cross-Border Possibilities to Help Patients
Networking: "The knowledge travels, not the patient"

- **Treat and diagnose patients**: exchange clinical data on patient cases at a distance
- **Develop and exchange expertise**: through the network and across the EU
- Networking, research and training
- Virtual patient management software for the Networks
Clinical patient Management System (CPMS) Interoperability Profiles based on IHE

- CPMS supports IHE integration with compliant hospitals
- XCPD - Patient Discovery (ITI-5)
- XCA - Retrieve Folder List (ITI-38)
- XCA - Retrieve Document List (ITI-38)
- XCA - Retrieve Document Set (ITI-39)
- IHE ATNA (Audit Trail and Node Authentication)
- IHE-STS (Security Token Service)
Pillar III: Use of digital services for citizen empowerment and patient-centred care

- Working with Member States and regions to deploy solutions:
  - that support user feedback and interaction between patients and healthcare providers,
  - that engage citizens in the prevention and management of chronic diseases

- Mobilize relevant EU funding (from EFSI, ESIF, Health Programme and H2020) and implement patient-centred integrated care

Conclusions