Steps toward eHealth interoperability

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Interoperability

eHealth interoperability expert group
organized by The European Commission – Information Society
and Media Directorate General

eHealth Interoperability

- to connect people, data, and health systems
- exchange of health-related data among healthcare institutions
- share relevant information to the appropriate authorities and decision-makers
- improving patient safety

All at a pan-European level

Preparing EC Recommendations on eHealth interoperability

Addressed to:

- all the Member States
- European Economic Area (EEA) countries
- eHealth industries and stakeholder associations

Focus on:

- electronic health records,
- patient summaries,
- emergency data sets
- ePrescribing

Benefits expected:

- more accessible health services in the context of cross-border citizen and patient mobility
- increased quality of healthcare
- reduced risks
- increased accessibility of medical data for research and high level administrative decisions etc.

Actions proposed at four levels:

- political/legal
- organizational
- application (including semantic)
- technical (including architecture)

1. Actions at the political/legal level

- Legal and regulatory framework (privacy, confidentiality, security of data, monitoring)
- Political and strategic commitment
- Integral part of national strategies
- Resources (time, management, financial) at least 2.5% of the annual public health expenses
- Plan ahead for at least 5-7 years
- Involvement of public-private partnerships, users and other stakeholders

2. Actions at the organizational level

- Common domain with the necessary interfaces;
- Common cases, requirements, data fields, data moving seamlessly between Member States;
- Minimum legal framework (privacy, security, authentication, traceability, accountability, liability, follow-up etc.);
- Nomenclatures, classifications, registries, accreditation and semantic interoperability;
- Identification of patients, professionals, and healthcare institutions;

3. Actions at the application level

- Semantic agreements on common priorities
- Standards for semantic interoperability (coding, terminology etc.) agreed
- Services and tools for cross-language information retrieval, translation, abstracts and extracts of health information (including extracts from patient records)

4. Actions at the technical level

- Survey of existing infrastructures that support health systems and services in EU
- Barriers, hurdles, missing elements, preconditions, and incentives for achieving eHealth interoperability
- Achievements and lessons learned from the Large Scale Pilots
- Scalability and extendibility

Other technical issues

- Security, confidentiality and privacy of health data,
- Identification, authentication and authorisation methods,
- Certification of the organisations of the exchange and sharing of data,
- Certification of interoperable electronic health records and other eHealth applications,
- Accreditation of healthcare professionals who develop or use interoperable eHealth systems and services.

The Romanian eHealth interoperability environment

- Legal framework, eHealth strategies and projects
- eHealth strategies and projects
- eHealth interoperability and standards

Legal framework

- Health Reform Law 95/2006
 organization, institutions, financing, insurance, personnel, integrated information system for public health management.
- Law 102/2005, National Authority for the Supervision of Personal Data Processing

eHealth strategies and projects

- MoPH Strategic Plan for 2008-2010, underlining the necessity of a new integrated health services information system, with patient monitoring
- No official eHealth strategy and no formal eHealth national roadmap
- Projects:
 - Unique Integrated Information System of Social Health Insurances (SIUI)
 - DRG manitaring system
 - health evaluation program
 - Electronic Personal Health Record (EPHR)

eHealth interoperability and standards

- *Near to Needs* (telemedicine international pilot project, started in 2001), using the RNMC emergency portal
- *Health Optimum* healthcare delivery optimization through telemedicine (6 countries, January 2007)
- Q-Rec Quality Labelling and Certification of EHRs
- Standards (coding, NCOEHIS CNAOSIIDSB)

Conclusions

- Need for political commitment, legal and regulatory framework, resources (time, management, financial)
- Involvement of public-private partnerships, users and other stakeholders (NCOEHIS – "Focal Point")
- Need for eHealth strategy and road-map
- Integrated, nationwide, patient oriented, health information system
- eHealth EU interoperability

Thank You

FOR YOUR ATTENTION