Digital healthcare providing opportunities for citizens

Conference on cross-border healthcare Directive
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Challenging times

- Ageing population
- Lack of resources
- Increased demand for high quality of care

Economic crisis:
Demographic imbalance

Population Distribution by Age

1950

http://www.calculatedriskblog.com/
Need for changes in Healthcare

- Acute care → Long-term-care
- Single Diseases → Multiple chronic conditions
- Passive Patient → Empowered citizen
- Institutional care → Home care
- Generic Approach → Personalised Care
Digitisation

- Access to your health data
- ePrescription
- Electronic Health Record/PHR/EMR
- Data privacy and security
- Quantified self
- Dr Google and digital health literacy
- Digital skills
- Secondary use of health data
- Telemedicine
- Access to healthcare
- Prevention/diagnose/treatment/monitoring/rehabilitation
- Informal carer

Digitisation
Integrated care

What this means for patients

- Common principles for coordinated care plans so all complex patients will have the same experience
- Help for patients and families to navigate the health system
- Listening to and involving the patients, families and caregivers in all stages of the care process
Chronic Disease Management

Radboud University Nijmegen Medical Centre, ParkinsonNet:
Improving Parkinson care through regional networks of primary and secondary care around hospitals, physiotherapists working according to evidence-based guidelines.
- An improvement in the quality of care for those patients
- 50% reduction in hip fractures and a reduction in hospitalization
- A substantial cost reduction (€20 million annually in NL)

Puglia, Italy:
Telecardiology programme to support patients affected by cardiovascular diseases both in case of acute events and management of chronic conditions.
- Over 550,000 ECG performed
- Significant reduction of avoidable death
- 60% underwent appropriate treatment and no hospitalization unless urgent (only 11%)
Robot Hector

- scans environment and patients body (falls / blood pressure)

- provides entertainment + Memory and cognitive training

- reminders for tasks (medicine)

- communication with doctors or family
Horizon 2020

Under Horizon SC 1: Health, demographic change and well-being

Focus on competitiveness

Research
- Health & Wellbeing solutions (user-centric approach)
- Long-term focus: VPH (virtual physiological human)

Innovation
- User-driven innovation
- Law incubators
- PCP/PPI

7.2 Billion €
2014-2020
The basics of digital health is the **health data**

- Key to the innovation and reform of the healthcare
- Still many restrictions to its sharing
- Health data are **Sensitive** data
- Essential to ensure a right balance between **data protection rights**, and the **need to support public health and research**

→ Free Flow of Data Initiative
Better access for consumers and businesses to digital goods and services across Europe

- Legislative proposals for simple and effective cross-border contract rules for consumers and businesses.
- A wide ranging review to prepare legislative proposals to tackle unjustified geo-blocking.
- Competition sector inquiry into e-commerce, relating to the online trade of goods and the online provision of services.
- Legislative proposals for a reform of the copyright regime.
- Measures in the area of parcel delivery.
- Legislative proposals to reduce the administrative burden on businesses arising from different VAT regimes.
- Review of the Satellite and Cable Directive.

Creating the right conditions for digital networks and services to flourish

- Comprehensive analysis of the role of platforms in the market including illegal content on the Internet.
- Legislative proposals to reform the current telecoms rules and the Audiovisual Media Services Directive.
- Establishment of a Cybersecurity contractual Public-Private Partnership.
- Review of the e-Privacy Directive.

Maximising the growth potential of the Digital Economy

- Adoption of a Priority ICT Standards Plan and extending the European Interoperability Framework for public services.
- Initiatives on data ownership, free flow of data (e.g. between cloud providers) and on a European Cloud.
- New e-Government Action Plan including an initiative on the 'Once-Only' principle and an initiative on mandatory interconnection of business registers.
1\textsuperscript{st} Industrial related package

Under the DSM strategy

- Digitising European Industry
  - Advancing the Internet of Things

- European Cloud Initiative
  - High-Performance Computing
  - Quantum Technologies

- Priorities for ICT Standardisation

- E-Government Action Plan
mHealth

Follow-up actions to the green paper

Triple win

- health monitoring
- lifestyle
- daily activity

Key challenges

- lack of knowledge among mHealth manufacturers about the legal framework
- data protection & trust
- lack of interoperability between healthcare systems in the EU
- safety of mHealth apps

with this data, your doctor will make a better diagnosis & give the best treatment

patients can take control of their health: accessing their records or getting reminders about their medication

mHealth
THANK YOU!


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