



# EHTEL

EUROPEAN HEALTH TELEMATICS ASSOCIATION

**3<sup>rd</sup> eHealth  
Conference in  
the Middle East**

**Acting for Citizens' Health by  
Integrating ICT in the Field**



**Dr. Martin D. Denz – EHTEL President**



# EHTEL provides the overview

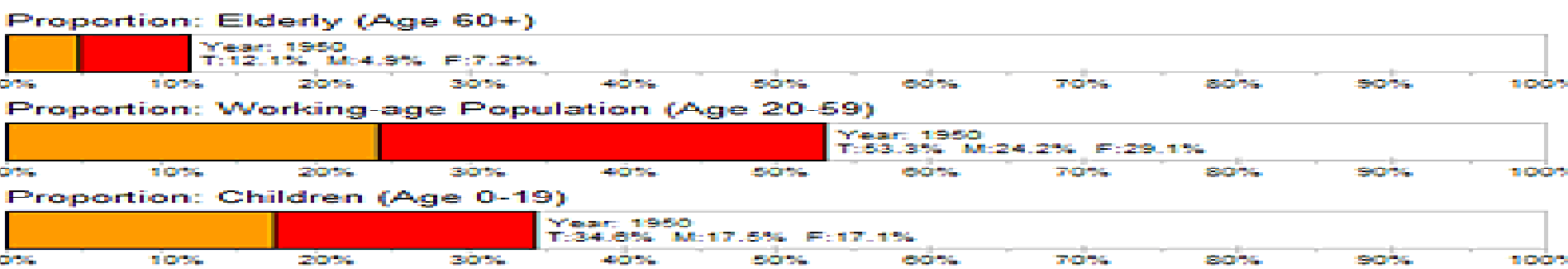
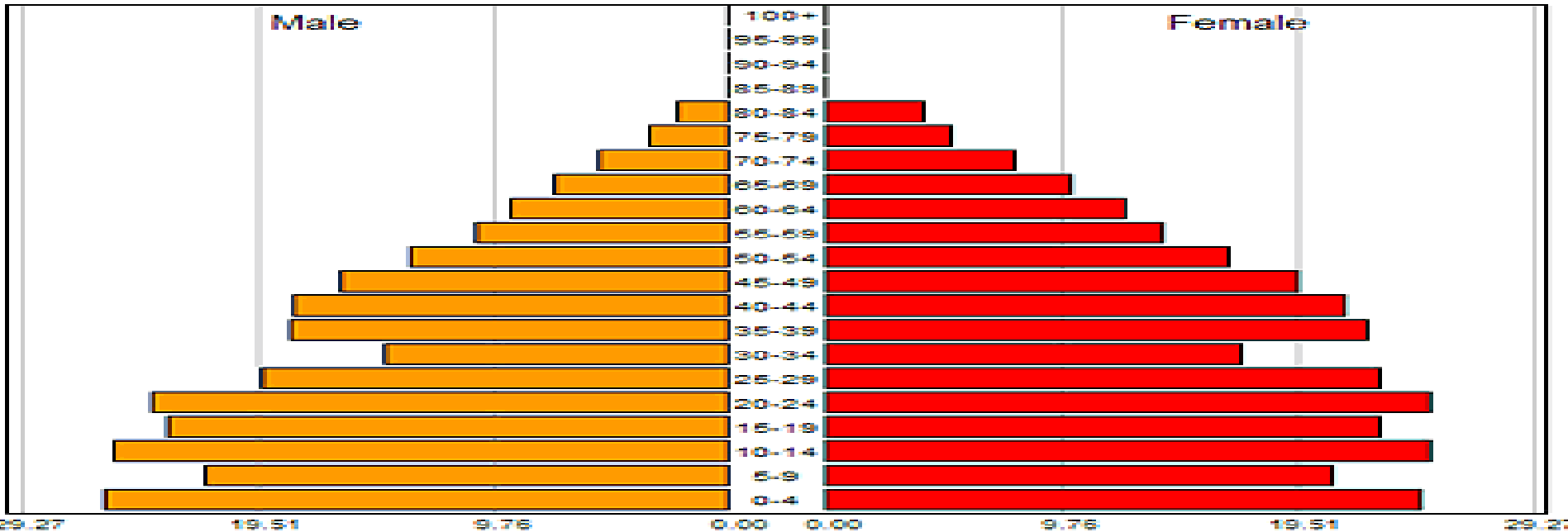


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- 1. Demographic challenge***
- 2. Digital Agenda of the EU***
- 3. National implementations***
- 4. Large scale pilot projects***
- 5. Telemedicine Services***
- 6. Involving all Users***
- 7. Reshaping Healthcare***

# Ageing Europe

EUROPE: 1950

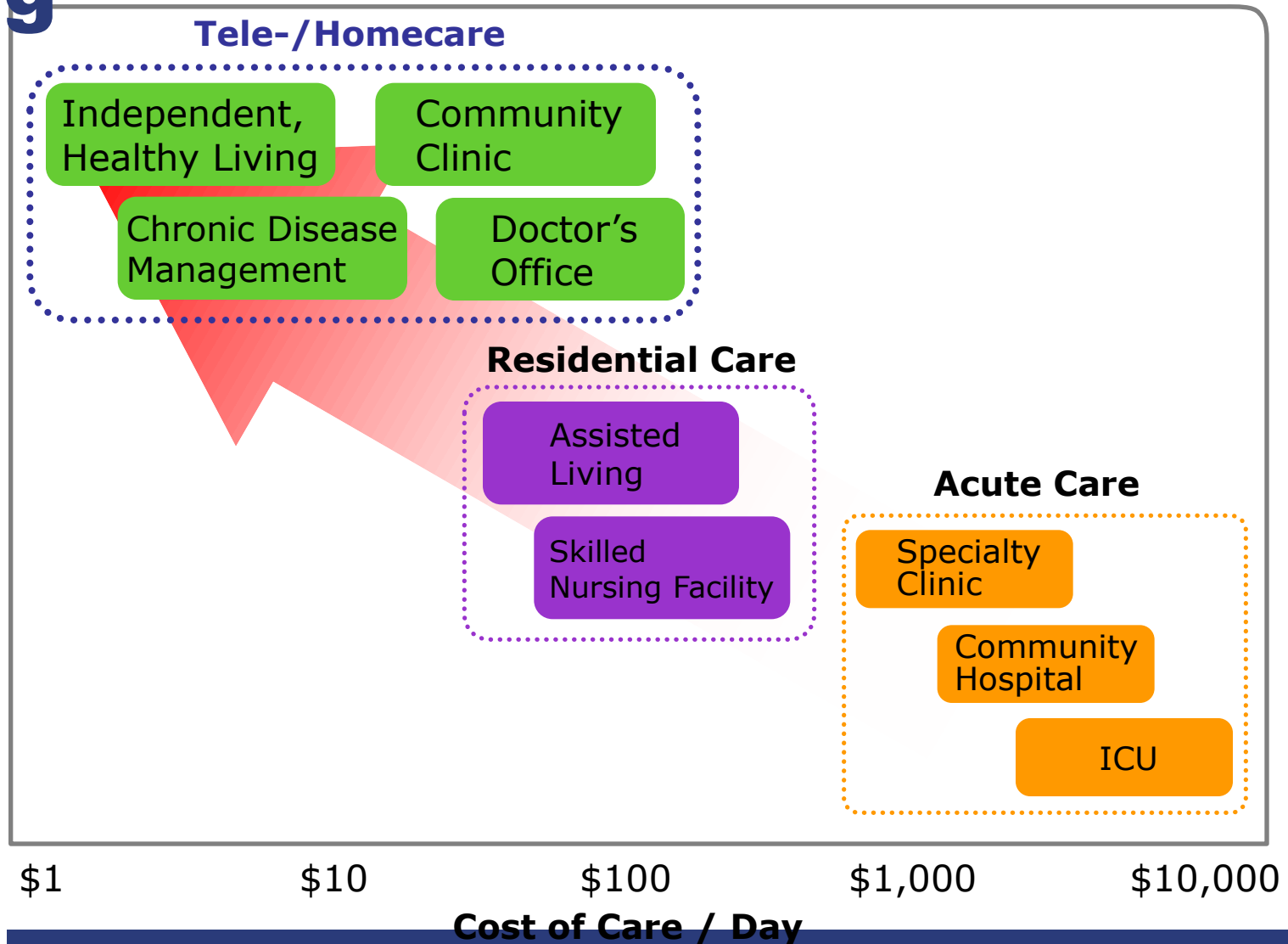
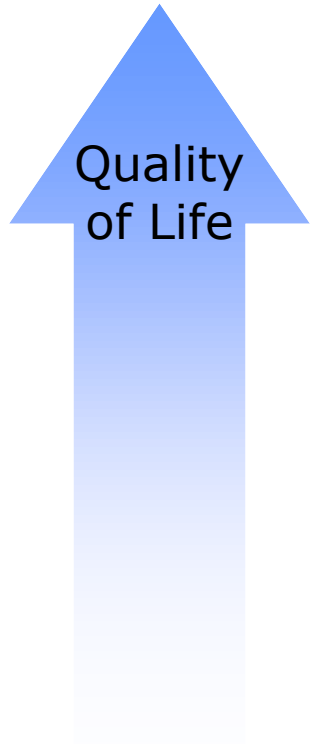


United Nations Population Division, World Population Prospects, 2004 Revision (Medium Variant, Shared Scaling)

# Rationing leaps into view

- ▶ **Increasing elderly population**
  - Relative decrease in resources (fewer taxpayers), chronic patients
- ▶ **Increasingly expensive care**
  - Technologies, informed/demanding patients; chronic diseases
- ▶ **Healthcare expenditure growing faster than economic growth**
- ▶ **Fewer health care professionals**
- ▶ **Health care as a (European) Human Right**

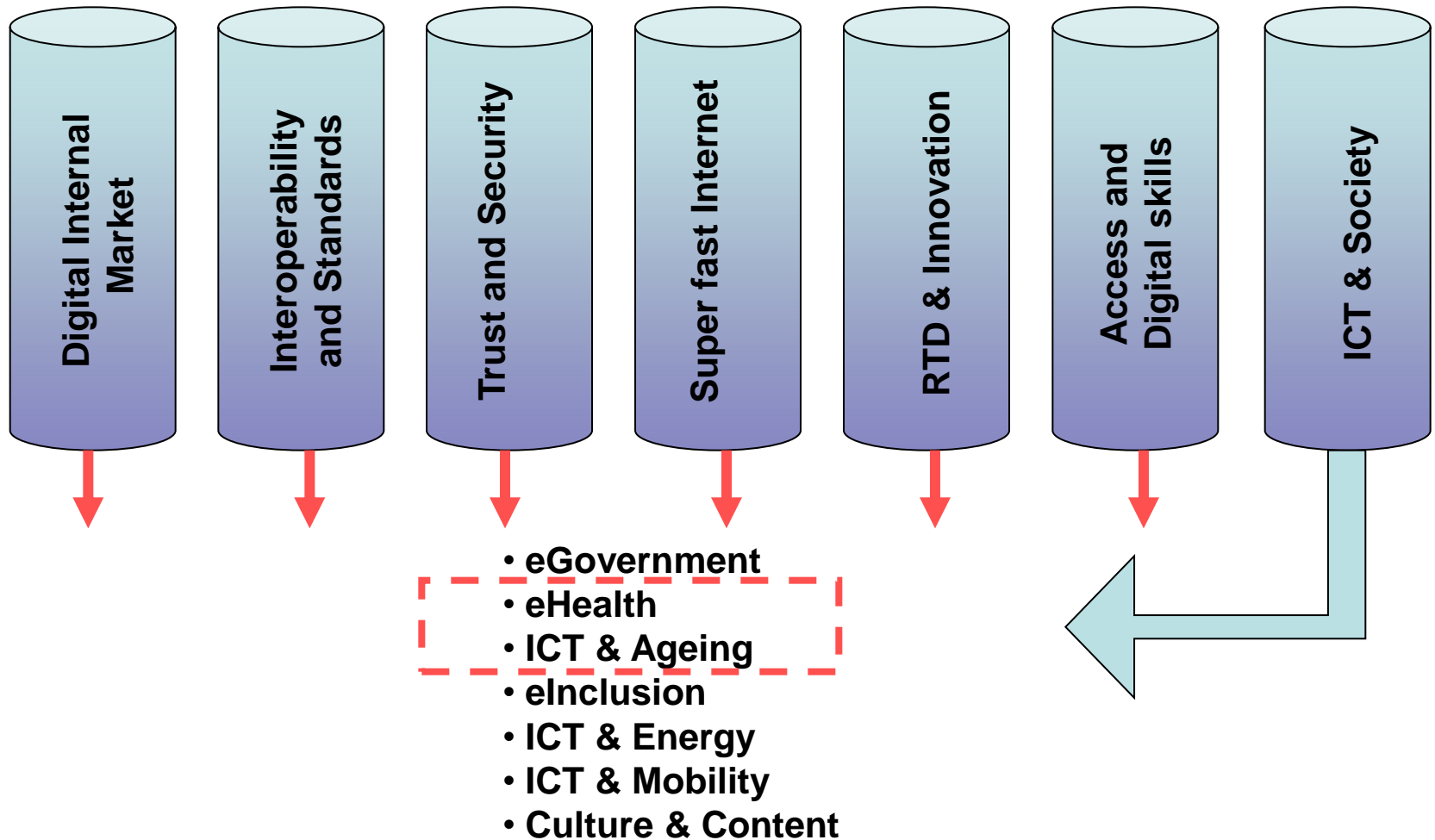
# Dignified and independent living



By courtesy of Intel

1. *Demographic challenge*
2. *Digital Agenda of the EU*
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# Digital Agenda for Europe



# Digital Agenda: Key Actions

- ▶ Key Action 13: Undertake pilot actions to equip Europeans with **secure online access** to their **medical health data** by 2015 and to achieve by 2020 widespread **deployment of telemedicine services**;
- ▶ Key Action 14: Propose a recommendation defining a **minimum common set of patient data** for **interoperability of patient records** [...] by 2012

# Standards and Interoperability

- ✓ Recognize and create **more and better standards** in Europe
- ✓ **Make better use** of these standards
- ✓ **Ensure interoperability** even in absence of standards



# Why interoperability?



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# eHealth Deployment in the EU

- ▶ **Health Insurance Data:**  
Germany, France, Italy, Austria, Slovenia
- ▶ **Medical Emergency Data:**  
Germany, Spain
- ▶ **Medication Records:**  
France, The Netherlands, United Kingdom, Andalucia
- ▶ **Cross-institutional, physician-managed EHR:**  
Germany, Italy, Slovenia, Spain

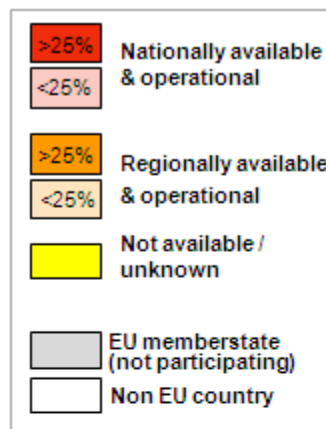
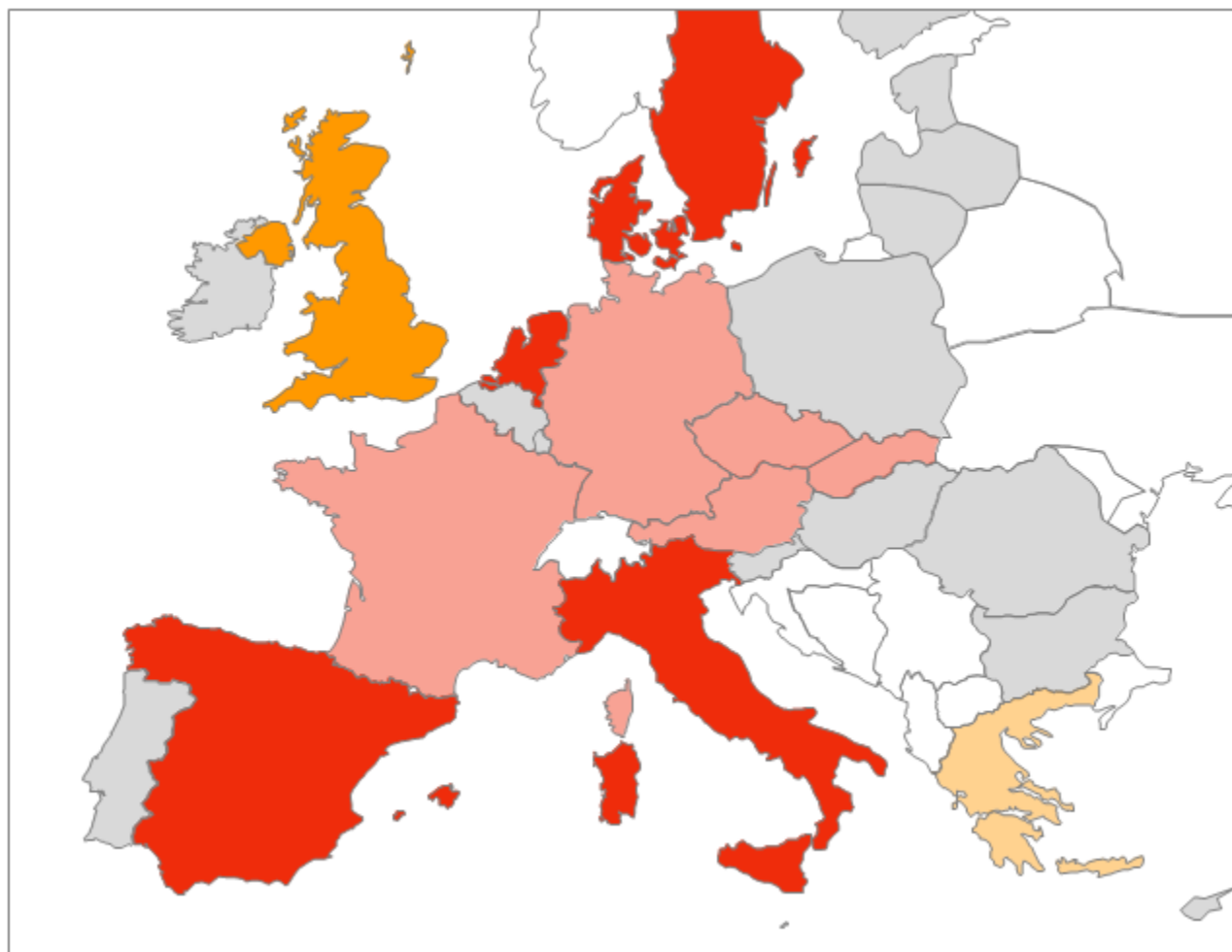


# eHealth Deployment in the EU

- ▶ **Personal Health Records:**  
Austria, France
- ▶ **eIDs for Health Professionals**  
**Health Profess. eRegistries:**  
France, The Netherlands,  
Slovenia, Germany
- ▶ **ePrescribing / eMedication:**  
Denmark, Sweden, The  
Netherlands, United Kingdom,  
Italy, Slovenia, Spain,  
(paused in Germany)



# Deployment of ePrescriptions by 2010



**Aim: citizens who receive this eHealth services in their country, will benefit from it also when travelling abroad.**

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# Strategic projects in the EU



# Cross-border eHealth Services

- ▶ **epSOS: European Patients Smart Open Services** - an Open eHealth initiative for a European large scale pilot of patient summary and electronic prescription
- ▶ **CALLIOPE: CALL for InterOPerability**. Creating a European coordination network for eHealth interoperability implementation



# epSOS: European Patients Smart Open Services

## ▶ European Patient Summary

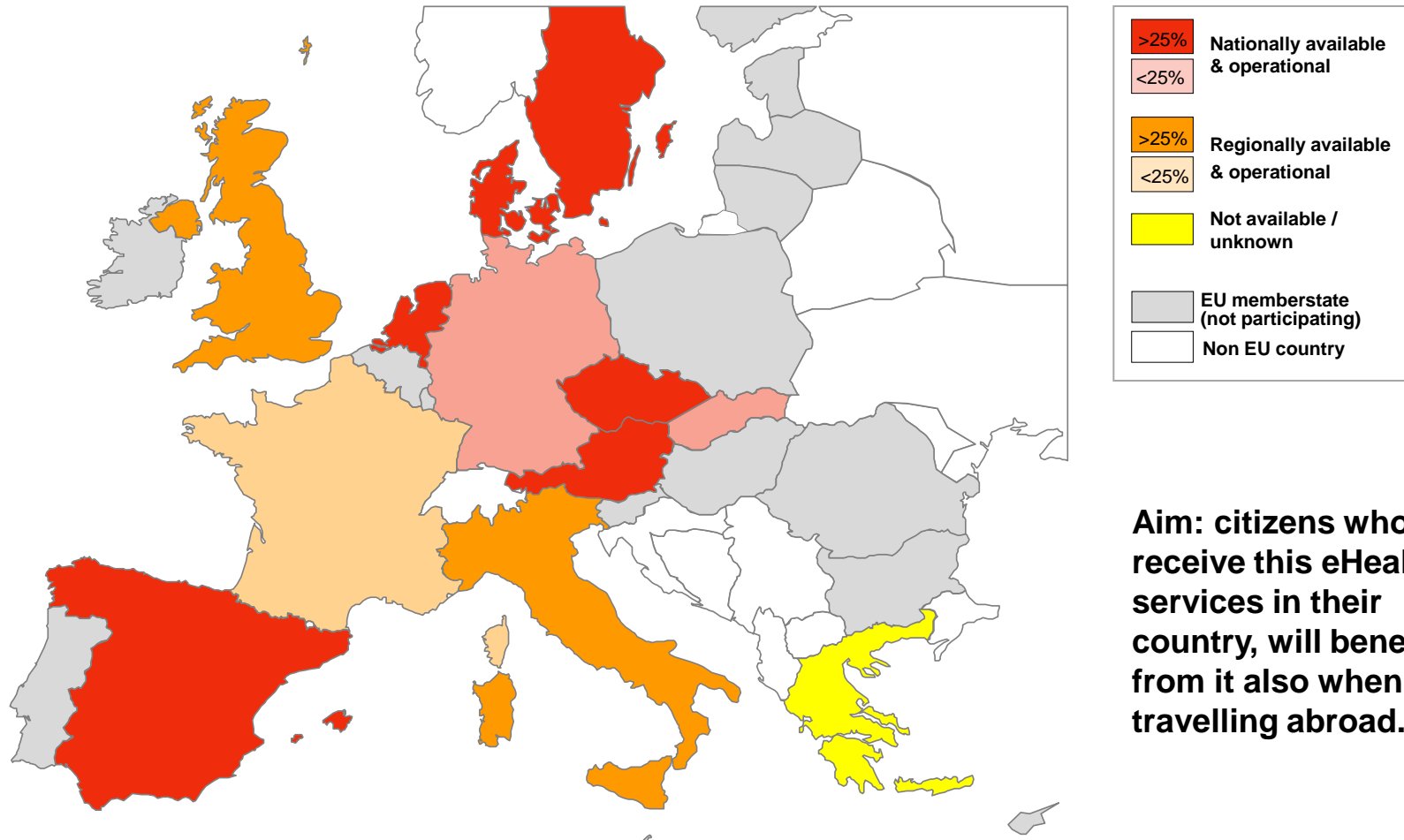
- Safer management of medical emergencies abroad by access to home country patient data
- Safe-Guarding Continuity of Care also when travelling working abroad.

## ▶ Medication Summary/ePrescribing

- Prescribing for travelling patients by using medication records from home country
- Cross-border ePrescriptions



# Deployment of Patient Summaries in 2010



**Aim: citizens who receive this eHealth services in their country, will benefit from it also when travelling abroad.**

# CALLIOPE: Call for InterOPerability

Creating a European coordination network for eHealth interoperability implementation

- ▶ Network of 20 Health Ministries  
National Competence Centres
- ▶ 13 stakeholder organisations representing physicians, community pharmacists, patients, industry and health insurers.
- ▶ CALLIOPE will propose a European roadmap for eHealth interoperability, review and advance the EC interoperability recommendation, and add value to eHealth standardisation initiatives.



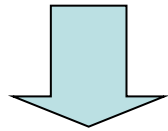
# European eHealth Governance Initiative

- ▶ **Policy level:** to set out higher level political objectives, define common priorities and policy measures
- ▶ **Strategic level:** to agree on concrete strategies for developing and implementing integrated, value adding eHealth services  
Establishment & maintenance of an open platform for multi-stakeholder trusted dialogue
- ▶ **Operational level:** deeper focus in areas such as ethics, security policies and services, EU infostructure, re-engineering of the standardisation process, maintaining links to national stakeholder groups, etc.)

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# Deploying Telemedicine Services

Deployment of Telemedicine Services is a key target of the EC, addressed by the large scale pilot project Renewing Health:



- ▶ Evidence building
- ▶ Awareness
- ▶ Legal certainty
- ▶ Organisational challenges



# Enhancing reality-based evidence

- ▶ **Validate in real life settings the use and deployment of Telemedicine services.**
- ▶ **Focus on 3 chronic conditions: Diabetes, CVD, COPD**
- ▶ **Participation of regional healthcare authorities in 9 countries: IT, ES, GR, DK, SE, NO, FI, AT, DE.**
- ▶ **Scale up to a statistically significant sample size and use the same methodology for all sites.**
- ▶ **Build up the largest multi-centre clinical trial ever deployed in Europe to measure the effectiveness and cost effectiveness of Telemedicine solutions.**

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# A Broader user Perspective

Who are users to look for “User requirements”?



RENEWING  
HeALTH REgions of Europe Working  
toGether for HEALTH

A Broader perspective: Both direct and indirect user groups



Patients and their informal caregivers

Healthcare professionals

Health authorities and payers

# Examples of User Requirements



## Example: Self-efficacy

A patient should feel as much confident as possible in using the technology and performing all the operations without anxiety and stress. This means that the patient needs to know exactly not only how to perform the various tasks from the easiest ones to those involving different levels of complexity, but also what to do in case of technical failures (e.g. who to contact, etc.).

# Examples of User Requirements



Example: Integrating telehealth in healthcare professional's routine

Healthcare professionals should be assured that the change in routine resulting from the adoption of a telehealth-based system of care eventually enable them to perform their tasks to be accomplished more quickly, more accurately and that their overall work productivity is increased

# Examples of User Requirements



Efficiency by matching the needs of the healthcare organisation

Ensuring efficiency in terms of

a) impact of telehealth on other personnel working in the hospital/clinic

b) relationship between a single telehealth system development and the existing technology used in the hospital/clinic.

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# Integrated Care Models

- ▶ **Continuity of Care** builds on integration across sectors.
- ▶ **Health-ICT** provides the communication platform
- ▶ **Electronic Health Records** enable **Disease Management** and **Telehealth**



# New understanding of telemedicine

- ▶ Telemedicine should be considered as one of the crucial components of the **range of eHealth solutions** that can support the **re-organisation of care delivery** (including **chronic care**).
- ▶ The design and implementation of telemedicine services should take place as a consequence of a **wider transformation** of the processes of **health and social care provision**.

# **4C = key effects by integrating ICT**

**Connecting people in health and social care will benefit from the application of ICT in support of**

- **C**ontinuity of care
- **C**ollaboration between stakeholders,
- better **C**ommunication
- safeguarded **C**onfidentiality.

# Trust and credibility are at the origin and the future of healthcare

