



Workshop on Semantic Interoperability 14-15 February, 2005, Brussels

European Commission Activities in eHealth

Ilias Iakovidis

Deputy Head of Unit – ICT for Health

DG Information Society and Media

European Commission

Past (1990-2003)

FUTURE (2003-)

FP2	FP3	FP4	FP5
<p>Computer Applications for Doctors</p> <p>Telemedicine systems and services</p>		<p>Regional Health Info Networks</p> <p>Home-care systems</p> <p>Personal Health Systems</p>	
<p><u>Budget</u> 20M €</p> <p><u>Projects</u> 30</p> <p><u>Results</u> Feasibility Study</p>	<p><u>Budget</u> 100M €</p> <p><u>Projects</u> 63</p> <p><u>Results</u> AIM Community</p>	<p><u>Budget</u> 140M €</p> <p><u>Projects</u> 158</p> <p><u>Results</u> 1st batch of Products</p>	<p><u>Budget</u> 200M €</p> <p><u>Projects</u> 125</p> <p><u>Results</u> EU Health Telematics Industry</p>

@

1. New perspectives in R&D

Wearable & Implantable systems

Health Knowledge Infostructure - HealthGrid

Biomedical Informatics

2. Support to deployment

Coordination & Support to National and Regional eHealth rollout plans

International cooperation

Technology assessment & transfer

Ministerial eHealth Conferences

eHealth Communication & Action plan

Communication: COM(2004) 356 final
*'e-Health – making healthcare better for European citizens:
An action plan for a European e-Health Area'*

e-Health action plan: 3 areas of activities

- Addressing common challenges
- Pilot actions: accelerating beneficial implementation
- Working together and monitoring practices

3 types of responsibilities:

- Member States (MS) responsibility
- European Commission (EC) Responsibility
- Shared between EC and MS

Many tools for action: EC programmes, EC promotion initiatives, regional funds, MS funds, open method of coordination

CALL 4 is open for submission of an Coordination Action that will assists Commission in following up the Action Plan of the eHealth Communication COM (2004)356

Communication: COM(2004) 356 final
'e-Health – making healthcare better for European citizens: An action plan for a European e-Health Area'

Addressing common challenges – selected examples:

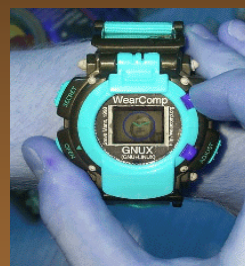
- Best practices collection (EC, 2005)
 - National/regional roadmaps (MS, 2005)
 - Common approaches for patient identifier (EC+MS, 2006)
 - **Interoperability for EHR and messaging (EC+MS,2006)**
 - Labeling, testing, certification of solutions (MS 2006)
 - Boosting investments in eHealth (MS, 2007)
 - Legal framework, (EC+MS,2009)
-

ICT for Health

Examples of Research Activities

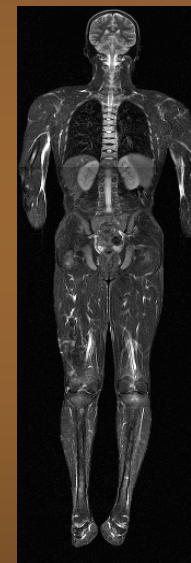
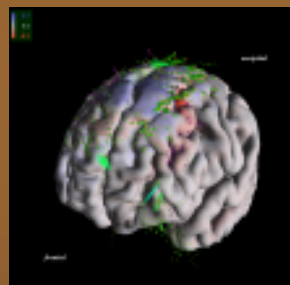
Prevention and Inclusion

- Personal health support systems for Monitoring, Autonomy, Mobility



Innovation and new market development

- Personalisation of treatments - Bringing advances of Genomics to Medicine
- Simulation and in silico testing



Health Information space (HealthGrid)

- fast access to all relevant patient data
- Research space
- Environment that support new start ups



Information Society

HealthGrid – 3 sided concept

Computing Grid

For data crunching applications

An environment, created through the sharing of resources, in which heterogeneous and dispersed health data :

- molecular data (ex. genomics, proteomics)
- cellular data (ex. pathways)
- tissue data (ex. cancer types, wound healing)
- personal data (ex. EHR)
- population (ex. epidemiology)

as well as applications, can be accessed by all users as an tailored information providing system according to their authorisation

Data Grid

Distributed and optimized storage of large amounts of accessible data

Knowledge Grid

Intelligent use of Data Grid for knowledge creation and tools provisions to all users



Interoperability

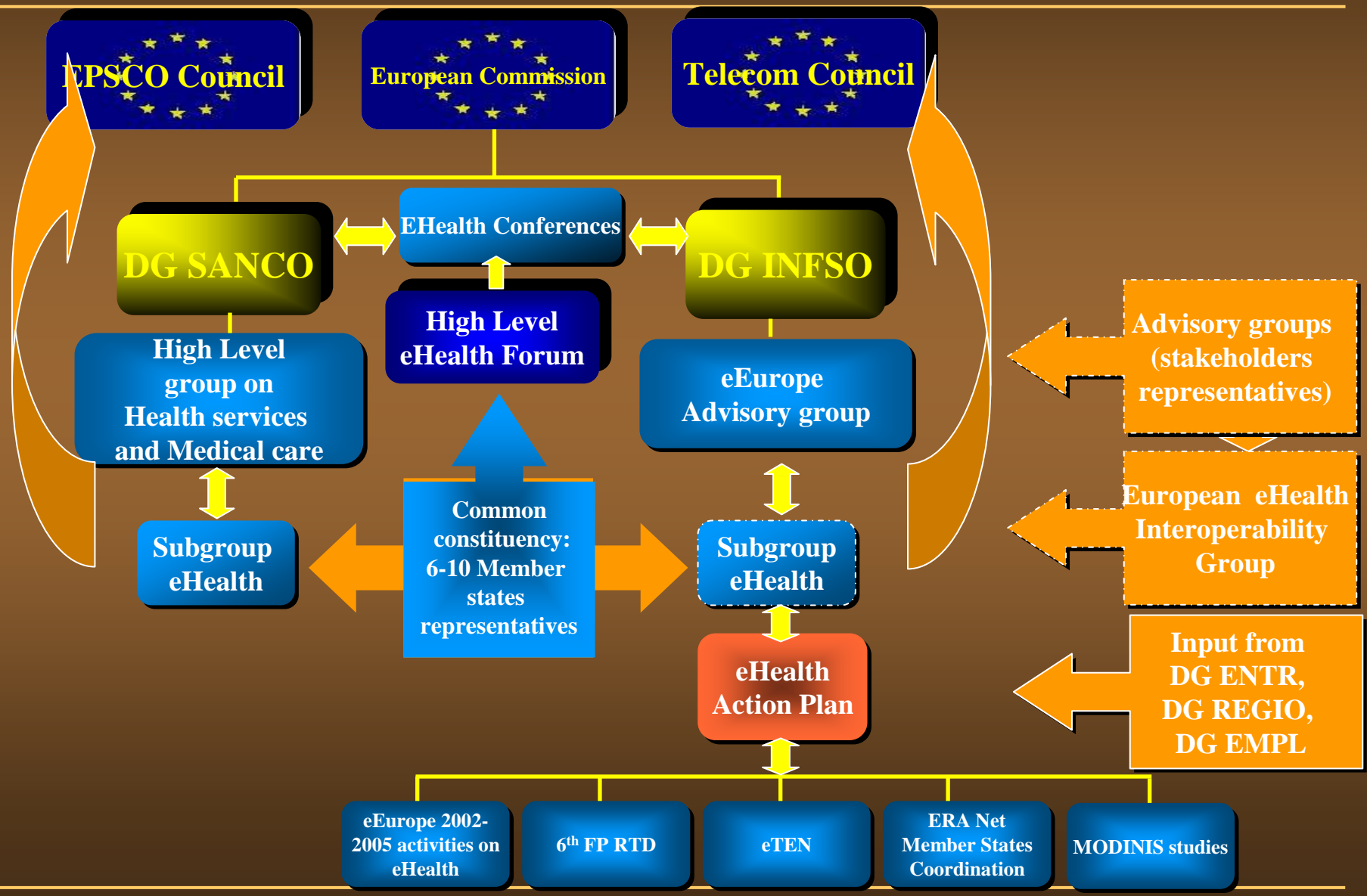
- **Concept with vast scope and many facets**
 - **Many research groups working for decades**
 - **Many international efforts (EU, US, CA, AUS)**

 - **Major technical aspects are common with other areas**

 - **The semantic interoperability has to be done by the domain experts**
-



Coordination of eHealth Action Plan in Europe





Information Society
Technologies

Organising Activities on Interoperability

CEN TC 251 eHealth Focus Group

ERA-NET (strategy definition); TMA Bridge (International Cooperation)

Top Down

National or
Regional
Roadmap
for e-
Health.

Health
Cards
(including
Insurance
cards)

Unique
Identifier
(EMPI)

EHR

Inter-
operable
Messaging

Conformity
testing and
Accreditati
on
schemes

Others
(Imaging,
radio
spectrum,
lab results,
pharmacy
etc)

I2Health (Interoperability issues); TMA Bridge (Interoperability issues);

Other issues : Call 4

Roadmaps (Specific Support Measures) are recommendations

- for an R&D actions on EU level
- that consider also non R&D aspects (legal, industrial, financial)
- that describe approaches to reach the overall goals, but also point to useful intermediate milestones (I.e. midterm goals to be reached within one FP)

E.g.: Interoperability of eHealth systems – realistic approaches to this concept with clinical applicability. Special emphasis on semantic interoperability and the further R&D needed in the area of biomedical ontologies
