European Commission
Activities in eHealth

Ilias Iakovidis
Deputy Head of Unit – ICT for Health
DG Information Society and Media
European Commission
## eHealth & European Commission

### Past (1990-2003)

<table>
<thead>
<tr>
<th>FP2</th>
<th>FP3</th>
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<tbody>
<tr>
<td><strong>Computer Applications for Doctors</strong></td>
<td><strong>Regional Health Info Networks</strong></td>
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<tr>
<td>Telemedicine systems and services</td>
<td>Home-care systems</td>
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<tr>
<td><strong>Budget</strong>: 20M €</td>
<td><strong>Budget</strong>: 100M €</td>
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<td><strong>Projects</strong>: 30</td>
<td><strong>Projects</strong>: 63</td>
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<tr>
<td><strong>Results</strong>: Feasibility Study</td>
<td><strong>Results</strong>: AIM Community</td>
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### FUTURE (2003- )

#### 1. New perspectives in R&D

- Wearable & Implantable systems
- Health Knowledge Infrastructure - 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**
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 a Coordination Action that will assists Commission in following up the Action Plan of the eHealth Communication COM (2004)356
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
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

ICT for Health, ISTAG WG, March 2004
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

EPSCO Council
European Commission
Telecom Council

DG SANCO
High Level group on Health services and Medical care
Subgroup eHealth

EHealth Conferences
High Level eHealth Forum
Common constituency: 6-10 Member states representatives
Subgroup eHealth

DG INFSO
eEurope Advisory group
Subgroup eHealth

eHealth Action Plan

Advisory groups (stakeholders representatives)
European eHealth Interoperability Group
Input from DG ENTR, DG REGIO, DG EMPL

eEurope 2002-2005 activities on eHealth
6th FP RTD
eTEN
ERA Net Member States Coordination
MODINIS studies
Organising Activities on Interoperability

Top Down
- National or Regional Roadmap for e-Health.
- Health Cards (including Insurance cards)
- Unique Identifier (EMPI)
- EHR
- Inter-operable Messaging
- Conformity testing and Accreditation schemes
- Others (Imaging, radio spectrum, lab results, pharmacy etc)

Bottom Up
- I2Health (Interoperability issues)
- TMA Bridge (Interoperability issues)

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