



eHealth initiatives in Catalonia

Josep Mañach i Serra
ICT Program Coordinator
Health Department. Generalitat de Catalunya

Artur Serra, Demis Vazquez,
i2CAT Foundation

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1 – eHealth in eEurope Strategy

- 2004. eHealth: Making Healthcare better for European Citizens: An Action Plan for an European eHealth Area.

http://www.ehealthconference2006.org/images/stories/com_2004_0356.pdf

- All the European countries should produce Action Plans for period 2007-2013.



2 – eHealth in Catalonia: State of the Art

- eHealth in Catalonia is in a crossroad moment :
 - Department of Health
 - DURSI, Department of Universities, Research and Information Society.
 - General Plan of Digital Infrastructures.
 - General Plan of Content and Services
 - Department of Presidency: Gencat.net: Citizen Assistance.
 - Department of Government: The e-Administration in Catalonia (The AOC): interoperability between administrations.



3 – eHealth Services Challenges

- The Catalan Health System is a major user of ICT in this country.
- Different Health institutions have different ICT services and networks: ICS, CatSalut, clinic hospitals,...
- New efforts in coordination and integration are on the way: New ICT responsible of the overall ICT Health system



Ehealth Service Projects

- Direct the integration strategies:
 - Locate the citizen in the “business” target.
 - To promote the interoperability between the multiple initiatives.
- Clear orientation towards communication:
 - One experience: Catalan Urgencies Integral Plan (PIUC).
 - Coordination centers (061) and “Health answers”.
- Instrument Incorporation on the social and professional tissue:
 - Individual Health Card (TSI) and Personal Identification Code (CPI). (universalization).
 - Centralized registries: RCA - Institutions (UP) - Patients (FIV- Alzheimer - Prosthesis - Specific pathologies - CMBD Minimum Sets of Data - Prescribes Management and Identification (DTR) - Waiting list and Guarantee certificates.
 - Clinic workstations (AP and AE) (ICS and more).
 - Internet: Previous appointment and physician free election.
 - Intranet: Clinical practice guides.
 - Trends observatories BOOTS of CSB.
 - SISO (Osona) From the territorial financing model.



4 – The digital integration strategy

- Systems integration and data protection (security guarantee).
- Shared Clinical History.
- Electronic prescribe.
- Maps of resources and portfolio services.
- Web site “eSalut”: Citizens and professionals interactivity.
- Incorporate “multi-channel” access that integrates the different existing systems, to be proactive, interactive and personalized.
- Telemedicine coordination and stimulation.
- Public health: A social transversal model.

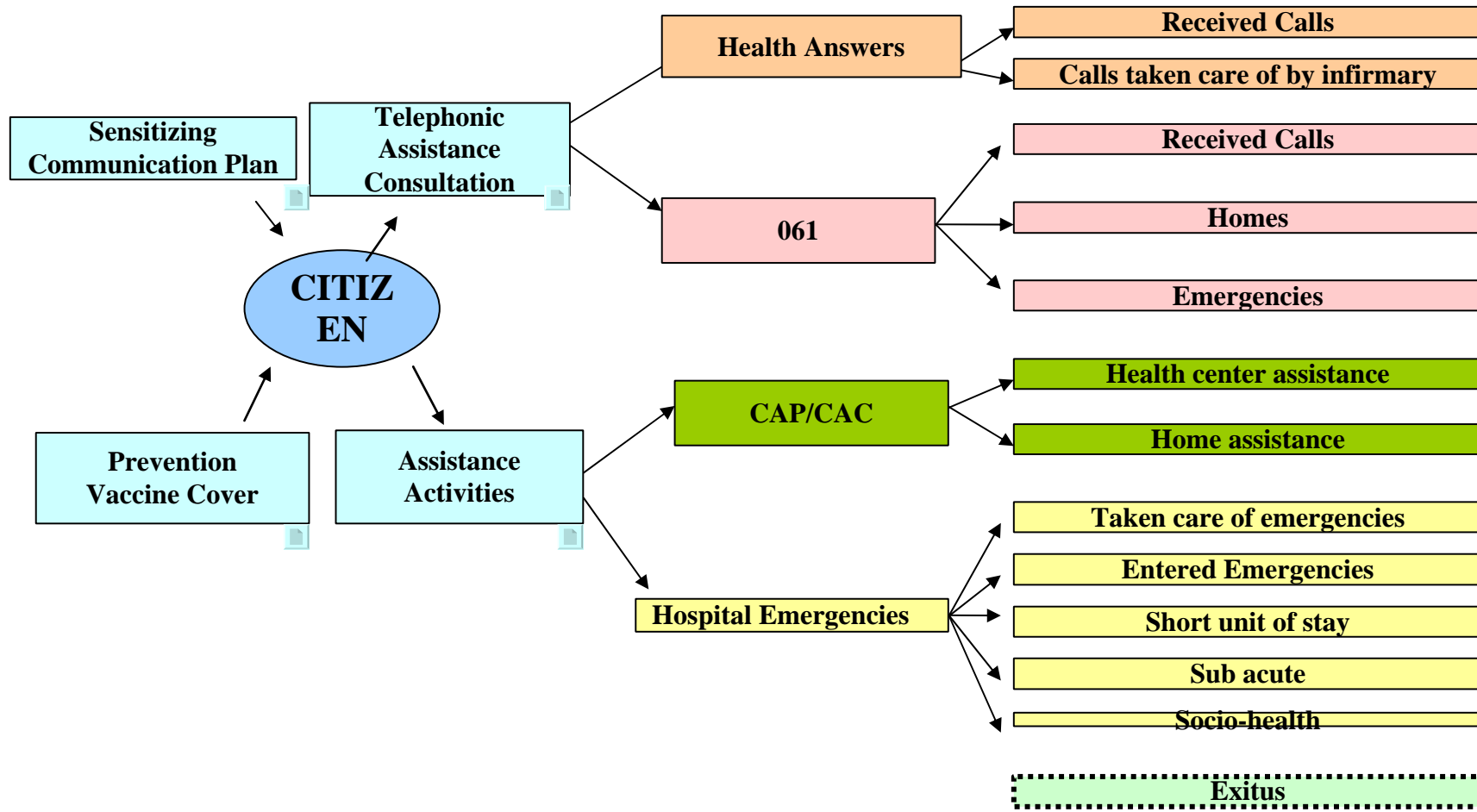


5 – Basic action lines

- Political will: Infrastructures, services and contents.
- Focus the information system on the citizen.
- The “government in the territory”. Representative and participative democracy.
- Information Systems Managing Plan.
- Innovation and research with and for the health professionals.

Emergencies Integral Plan of Catalonia

Winter 04-05



Information for the professionals

Evaluation 04-05 and Proposals 05-06



Emergencies Integral Plan of Catalonia

Winter 04-05

Communication plan

It respond to three main axes:

- **Conscience** of the importance of the **prevention** and the **healthful habits**.
- **Conscience** of the importance of the **suitable use** of the health resources.
- **Inform about health resources and devices** that the Health Department makes its available, and the resources that are reinforced at the more demanded periods as could be on winter.

Emergencies Integral Plan of Catalonia

Winter 04-05



1.075.000 guides of the health centers and the public hospitals sytem. With health advices and information about the health services utilization.

(Inserted in the main newspapers of general and local press on the first Sunday of December).

Emergencies Integral Plan of Catalonia

Winter 04-05



CatSalut Website,
interactive consultation of
the health centers with a
continuous assistance.



Information phone
24 hours / 365 days

Emergencies Integral Plan of Catalonia

Winter 04-05

Integral d'Urgències de Catalunya (PIUC)

Informe d'informació de la temporada d'hivern 2004/2005

Setmana 9 (del 3 al 9 de març de 2005)

Informe d'informació PIUC de la Regió Sanitària Tarragona

	Nombre	Situació respecte a la setmana 47
Atencions a les ateses	4.685	+1,1 %
Atencions a les ingressades	453	-9,0 %
Atencions al centre coordinador	2.280	+0,9 %
Atencions a centres d'atenció continuada	2.925	+6,8 %
Atencions a l'atenció primària de salut	296	+28,7 %

S DECLARANTS

Universitat de Tarragona Joan XXIII
 Hospital Sant Joan de Reus
 Hospital de Sant Pau i Santa Tecla
 Hospital de Valls
 Centre coordinador d'urgències de Tarragona
 Atenció Continuada Ciutat de Reus
 Atenció Continuada Ciutat de Tarragona
 Atenció Continuada El Vendrell
 Centre d'Urgències Torroella
 Centre d'Urgències Bonavista
 Centre de Salut Cambrils
 Centre de Salut Riudoms
 Centre de Salut Tarragona 1 (Bonavista-La Canonja)
 Centre de Salut Tarragona 2 (La Granja-Torredorta)
 Centre de Salut Tarragona 3 (Marçaleix)
 Centre de Salut Valls urbs
 Centre de Salut El Vendrell

Continuen les mateixes tendències de les últimes setmanes. Continua estabilitzada la tendència descendent dels domicilis dels centres d'atenció primària centinel·la.

2005 Butlletí d'activitat de l'Institut d'Emergències Mèdiques, SA 9/2005

PREDICCIÓ

European Influenza Surveillance Scheme Weekly Electronic Bulletin 9/2005
http://www.eiss.org/cgi-bin/eis/bulletin_v2.cgi

Per extensió geogràfica

Per intensitat

AC Full informatiu 21 (14/3/2005)
<http://gencat.net/salut/depansanitat/sanitat/Atm/aca/Du1/index.html>

Indicadors utilitzats reflecteixen que l'activitat gripal està estabilitzada, sense que s'hagi aïllat cap virus de la grip a Catalunya a setmana 10 i que continuen detectant-se virus respiratoris.

L'activitat gripal està estabilitzada o disminuint a Europa Central i s'incrementa al Nord-Est.

Weekly Information for the professionals

- ✓ Indicators of demand evolution at the hospitals and the primary assistance: Information System PIUC
- ✓ Influenza epidemic evolution in Catalonia: PIDIRAC
- ✓ Epidemic evolution in Europe
- ✓ Prediction System of the



eHealth R&D initiatives

- DURSI and Department of Health started eHealth collaboration in different R&D projects
 - eHealth innovative services.
 - Bioregio.
- The i2CAT role: fostering eHealth as innovative area in Health System.
 - Creation of eHealth Cluster
 - Following the Triple Helix model:
Administration + Universities + Companies

e-Europe 2010: e-HEALTH

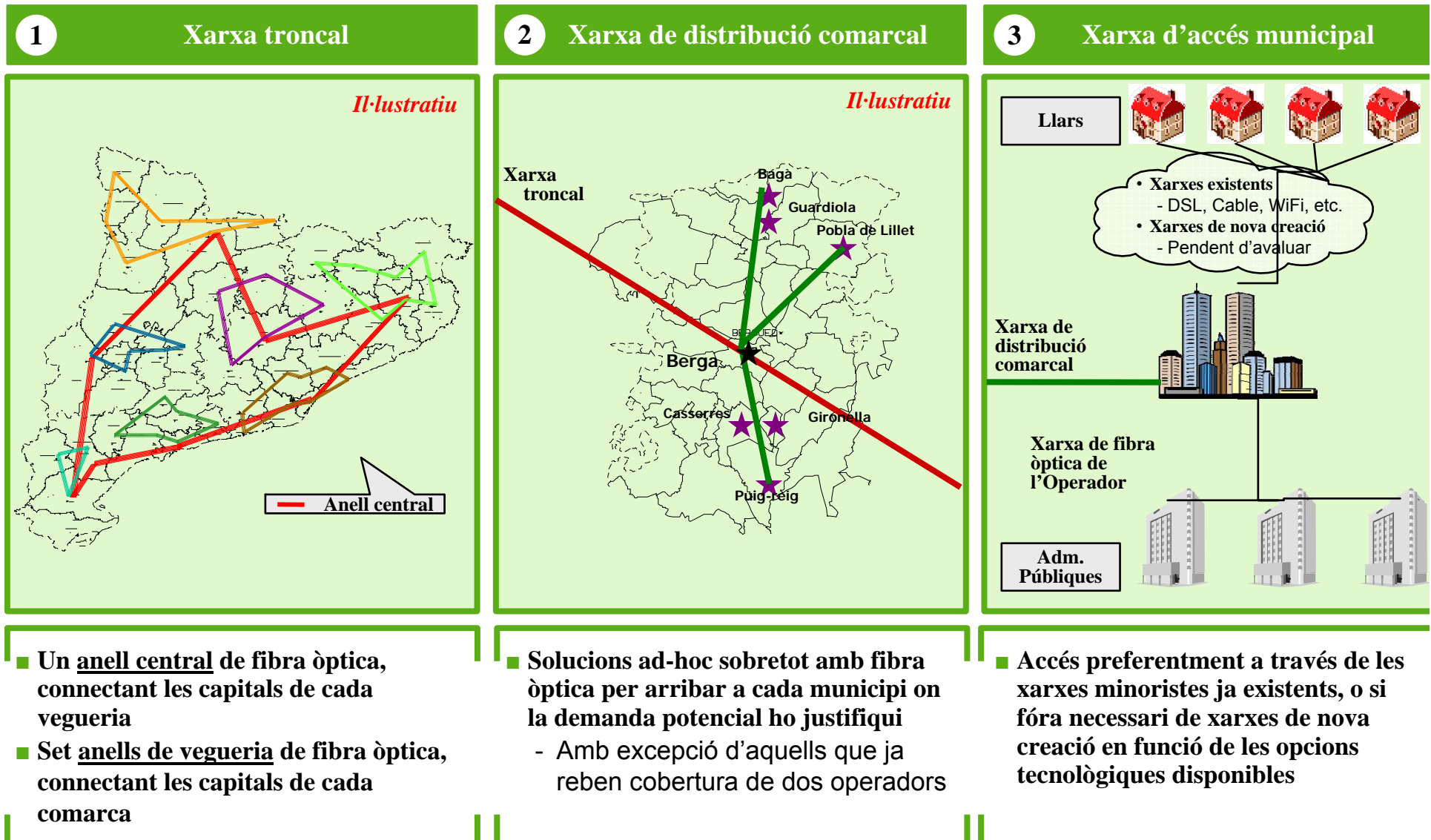
■ E-Europe 2005, Mid-term Review

- “e-Health is becoming a central aspect of health policy at regional, national and European level”

- The consultation reaffirmed the need to continue work on the three e-health actions proposed in eEurope:
 - **electronic health cards;**
 - **online health services** and
 - **health information networks** by Member States and the Commission.

- Most Member States now have developed e-health plans many of which call upon an expenditure of more than **3% of the health budget on e-health tools and applications.**

Neutral Telecom Infrastructure deployment in Catalonia (2006-2008).

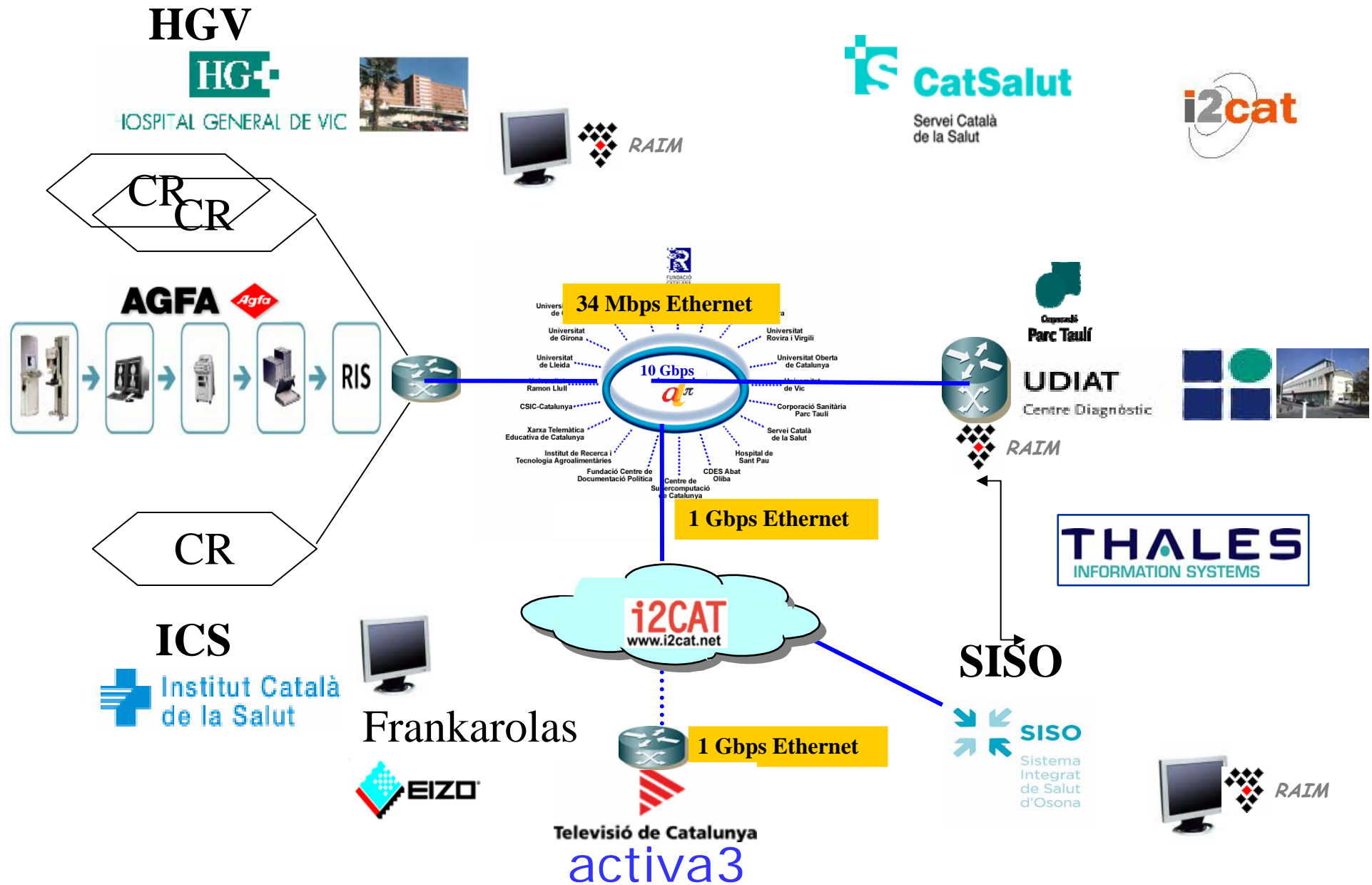


Health Integrated System of Osona (SISO)

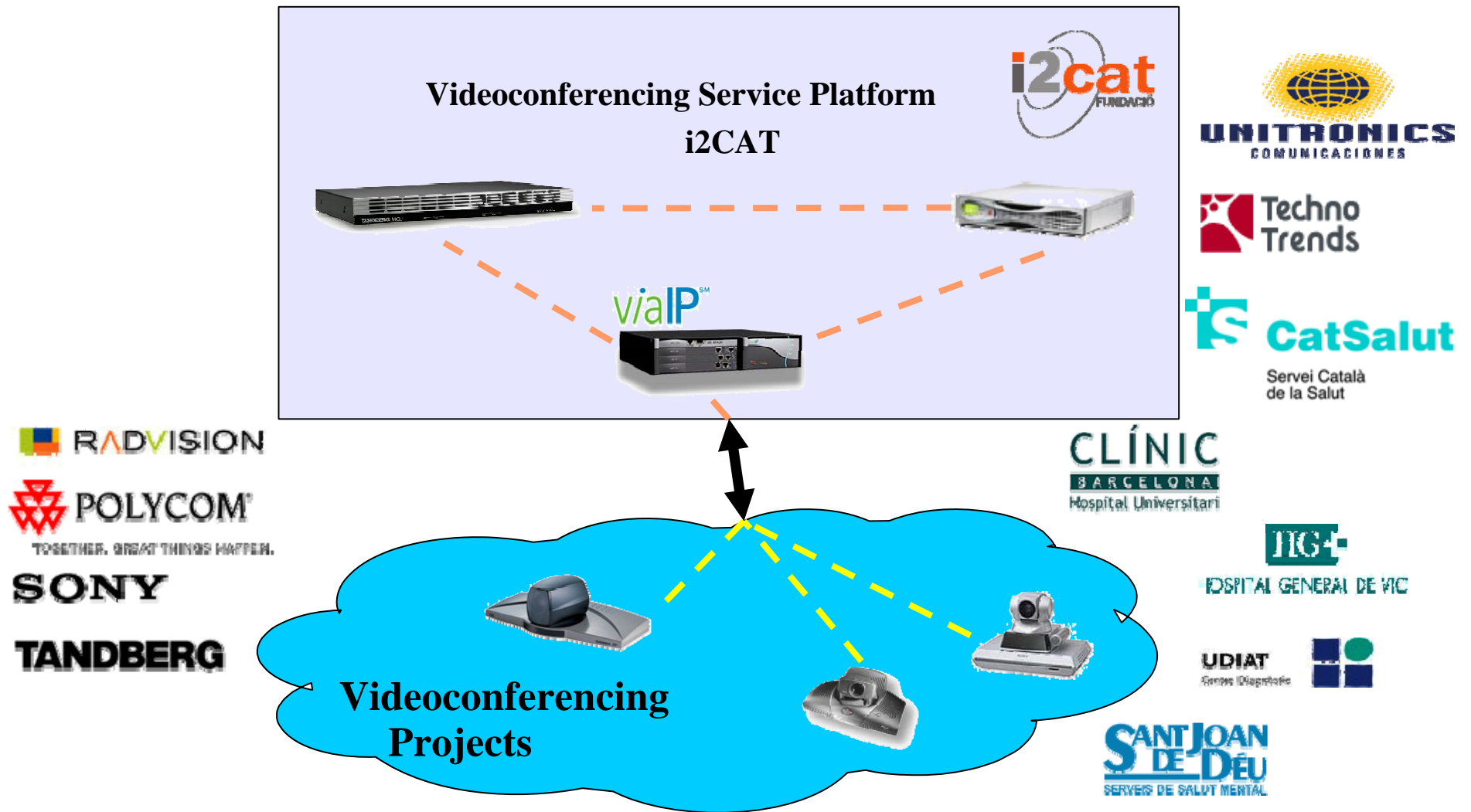


<p>1 Reference Hospital</p>	 HOSPITAL GENERAL DE VIC	<p>134 physicians</p>
<p>2 Hospitals Socio-Health</p>		<p>13 physicians</p>
<p>1 Mental Health Center</p>		<p>1 physician</p>
<p>3 Primary Assistance Entities Private Management</p>		<p>34 physicians</p>
<p>1 Primary Assistance Entity Public Management</p>		<p>80 physicians</p>

Digital Radiology Network of Osona (2004)



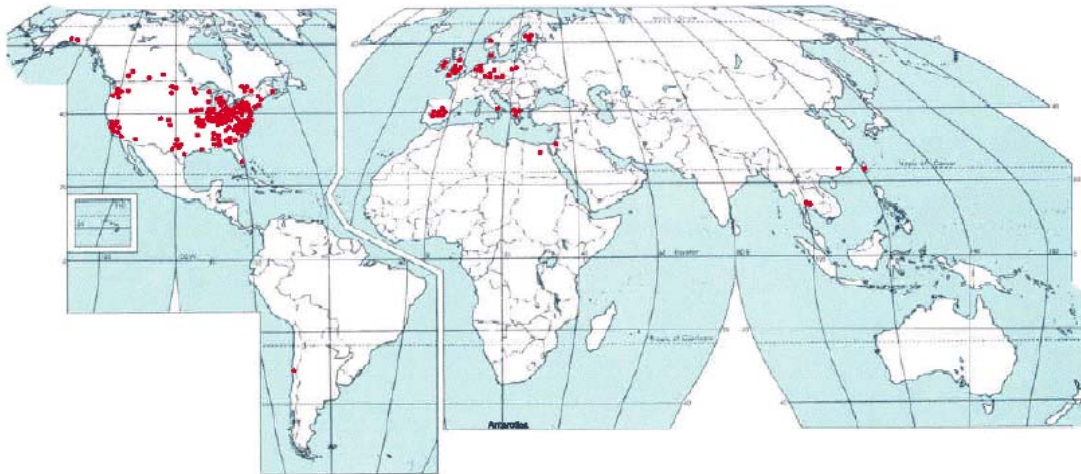
VideoHealth project: an IP Multiconference platform for ehealth (2006)



Megaconference, an Internet2 project (2000)



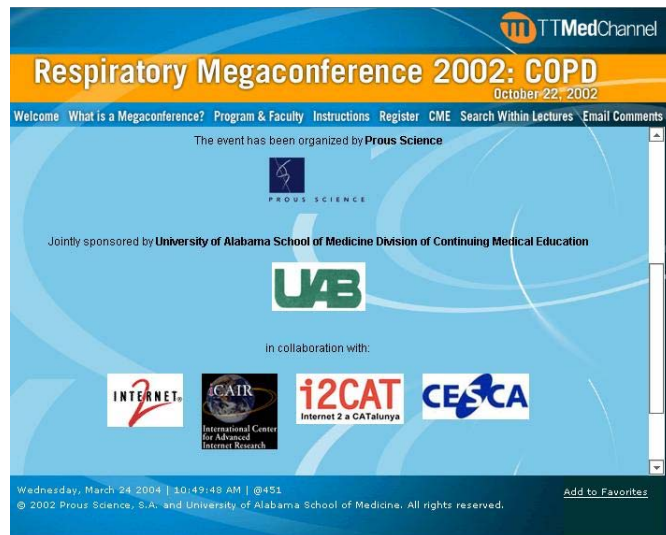
- La Megaconference se realiza cada año. El año 2004, 250 instituciones participaron de forma simultánea.
www.megaconference.org
- Desde el año 2003 i2CAT gestiona la MCU de acceso al evento en España.
- Se probó la escalabilidad de la videoconferencia sobre IP



<http://www.mega-net.net/megaconference>



Medconference (2002)

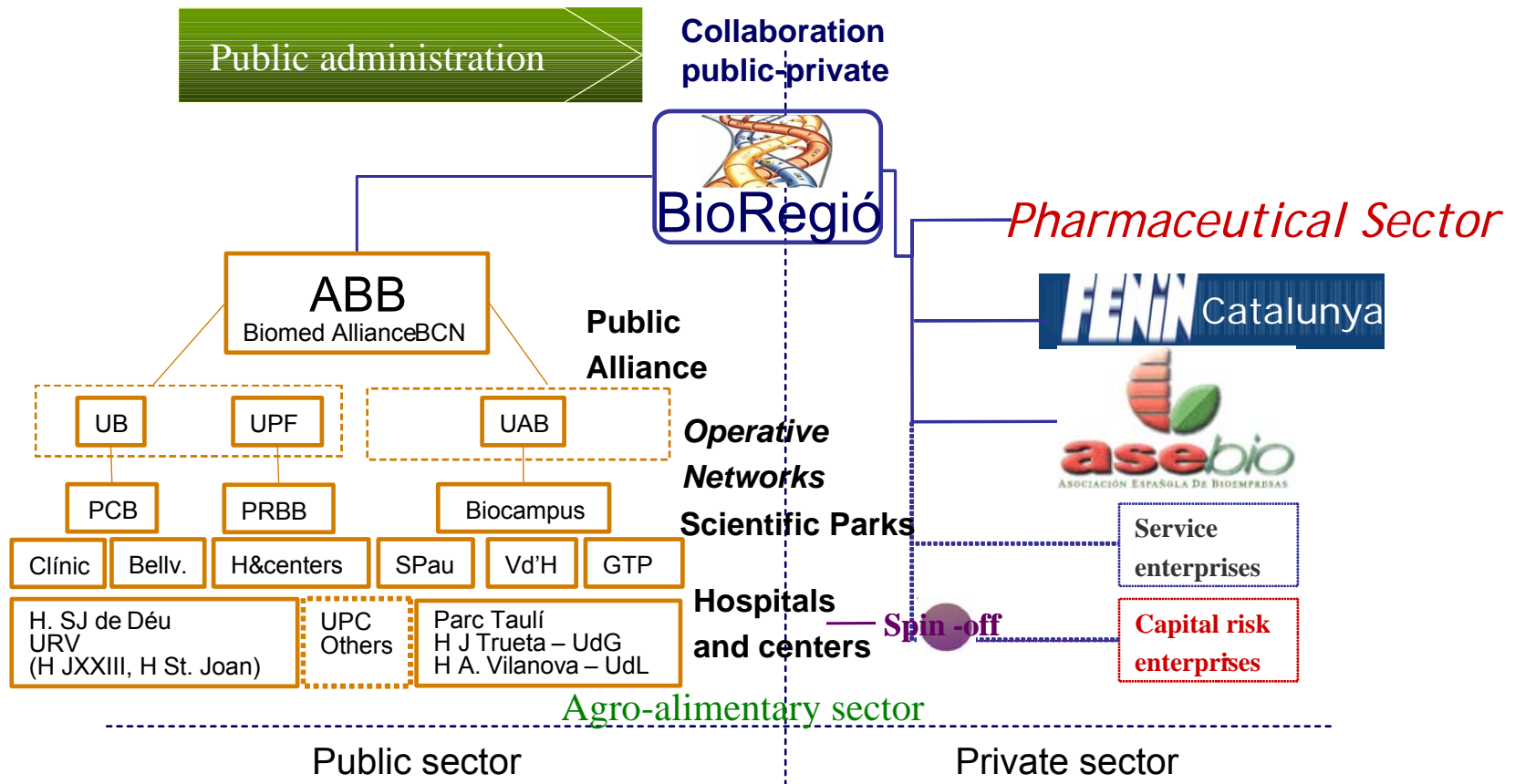


- The Respiratory Megaconference 2002 desde el Hospital Clinic de Barcelona
- Megaconferencia para usos médicos
- Participación de 6 de los mejores especialistas de todo el mundo.
- Fue el primer seminario médico que permitió la acreditación docente a los estudiantes que participaron, aunque fuera de forma remota

VideoHealth project goals

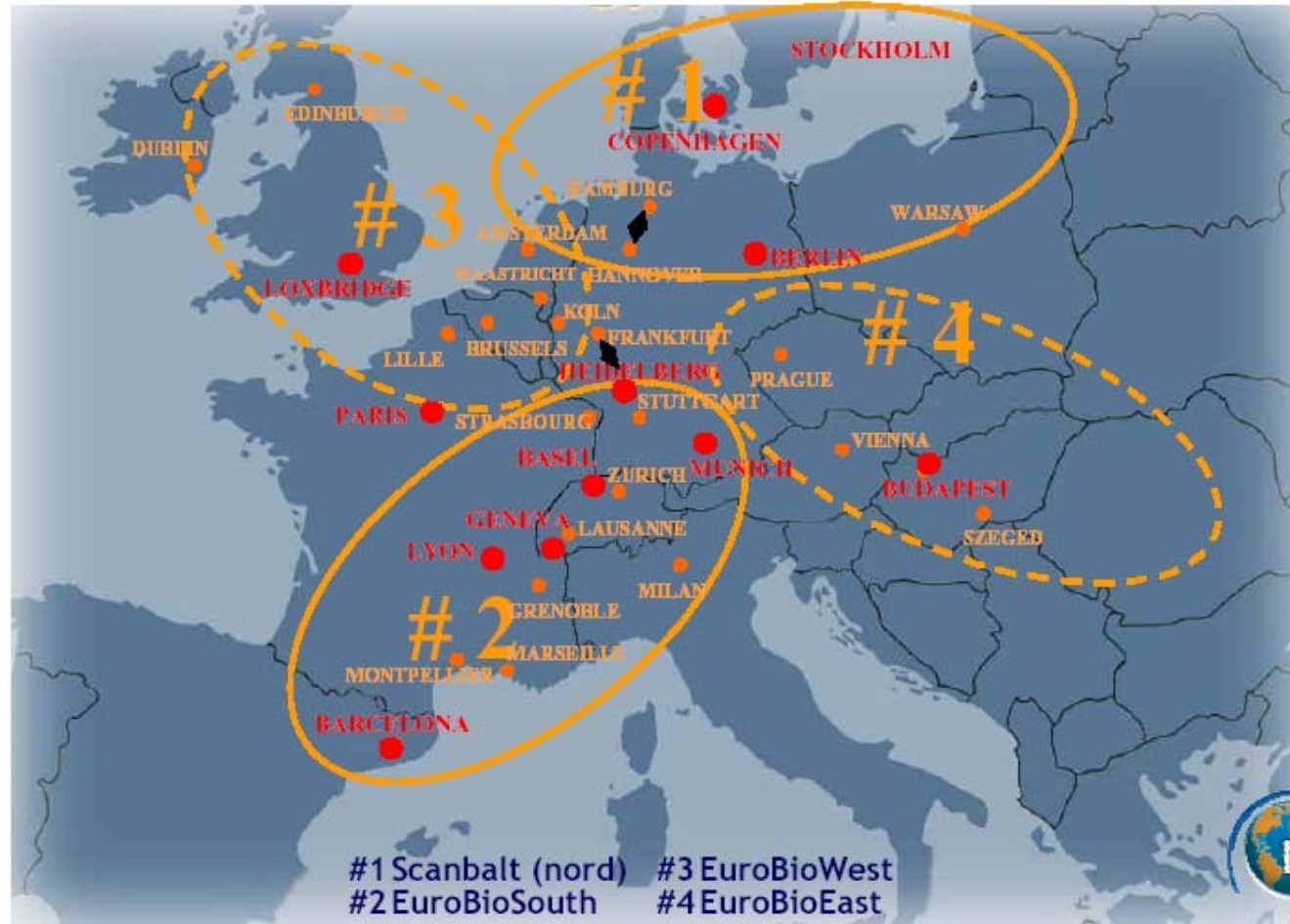
- To create an IP Multi**conference pilot platform** for the health sector.
- The project will **include**:
 - **The definition** of the necessary **requirements of the network** (bandwidth, security, etc.)
 - An open platform with MCUs, Codecs, Firewall Traversal solutions, etc. and **software** (Management, Administration, etc.) by videoconference provided by **companies involved** in the project, based in criteria of interoperability and openness.
 - Different **user projects in areas like**:
 - Management and administration,
 - home assistance,
 - clinical sessions,
 - emergencies,
 - mobility environment,
 - e-learning, medical conferences, etc.

BioRegio strategy (2005,...)



EuroBioClusters

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#1 Scanbalt (nord) #3 EuroBioWest
#2 EuroBioSouth #4 EuroBioEast

