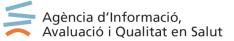
HEALTH SYSTEMS TRANSFORMATION THROUGH eHEALTH

Joan Cornet Prat

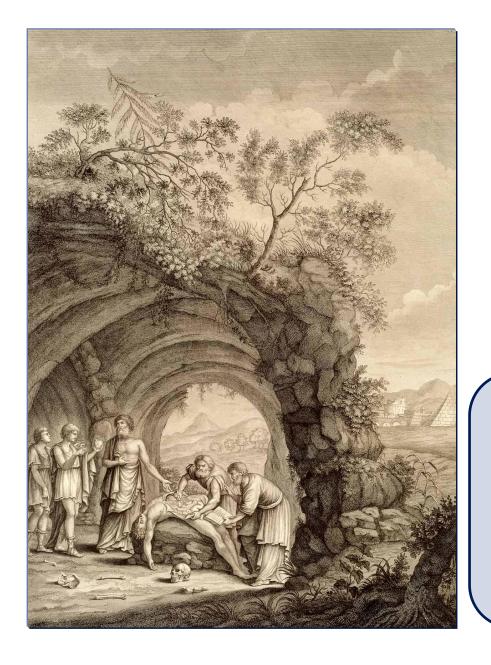
Executive Chairman TicSalut Foundation

Boston 23rd October 2012





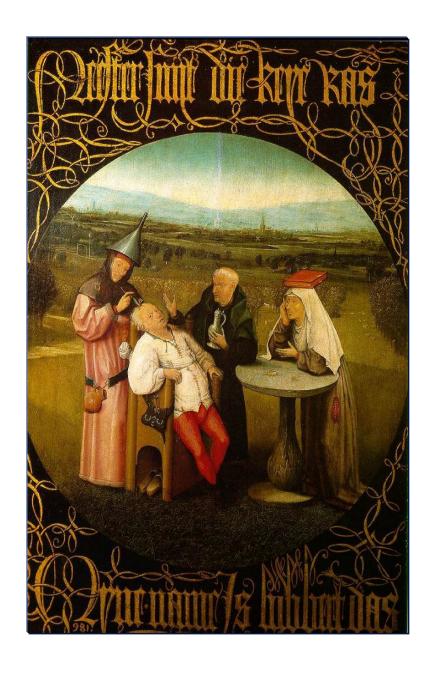




Tabulae anatomical ligamentorum corporus humani...

Venice, 1803.
Copperplate
engraving. National
Library of Medicine.





Extracción de la piedra de la locura

El Bosco, 1475-1480

Museo del Prado, Madrid, España







Will you please tell me which way I ought to go from here?

"In that direction" the Cat said, waving the right paw round "lives a Hatter; and in that direction, waving the other paw, "lives a March Hare.

"Visit either you like; they're both mad".

"But I don't want to go among mad people" Alice remarked.

"Oh, you can't help that" said the Cat; "we are all mad here...

Alice in Wonderland. Lewis Carroll. Chapter VI









Tic Salut Foundation

Suppliers of Health

Advisory Business Board

Professional and citizens Council

Scientific Council

Collaboration Agreement Fundació TicSalut - Health Department / CatSalut

Observatory

Innovation

Normalization

International relations and projects

Trend Maps Telemedicine and Teleassistance plan **DEPLOYMENT**

Office of standards

DEPLOYMENT

Projects, agreements, congress



Who we are Foundation Board























What to do

Map of trends

Annual publication that provides objective information about the level of development of ICT in health organizations in Catalonia

OBSERVATORY



Telemedicine and Teleassistance Plan

Proposals for action and projects of interest assessed by the Health Department in this area

INNOVATION





What to do

Interoperability and standards office

Preparation of criteria and strategic guidelines in adopting semantic standards and technologies.

Standardizations



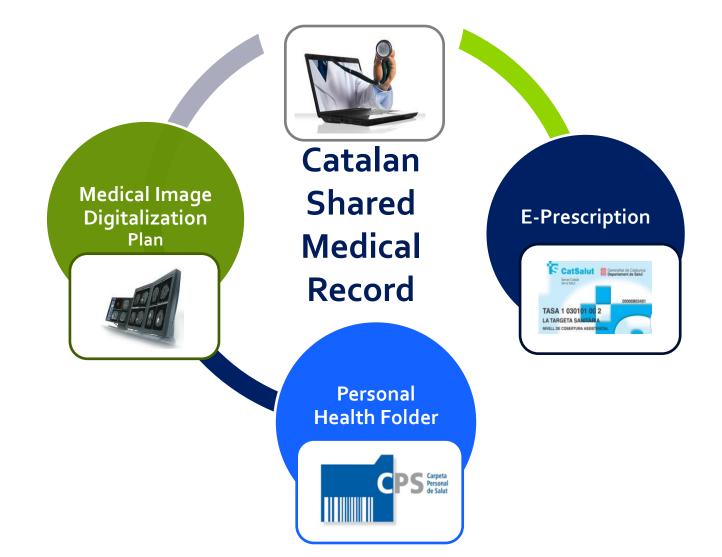
Projects, agreements, congresses

Participate in international projects and activities that promote the implementation of new technologies in the field of health





Where we are





The Catalan Health System reality

Government: Generalitat de Catalunya

Area: 32.107 km²

Population (2011): **7.539.000**

Life expectancy (2011): 80,55 years

Birth rate (2010): 1,47

Gross Mortality rate (2010): 7,92

Infant mortality (2010): 2,63

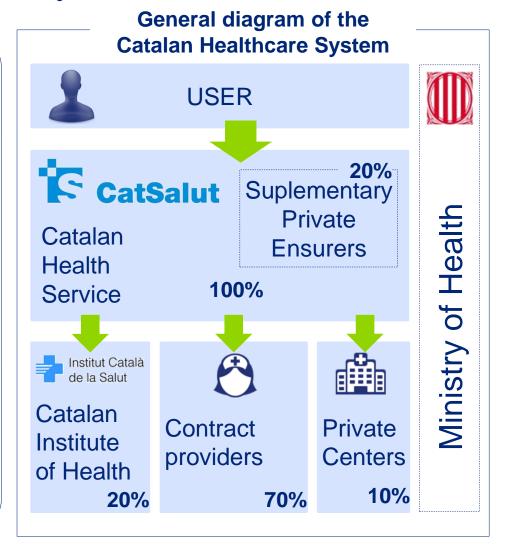
GDP/Capita (2009): 28.046€

High urban concentration (2009): 232,8

hab/km²

Own language and culture

Catalunya



How are we organized to provide health services?



Emergency

2.761.280 emergencies primary assistance
3.5212.420 hospital emergencies
1.622.300 urgencies SEM (emergency medical system)



Visits

40.919.888 primary assistance4.476.690 first specialist hospital visits



Chronic Illnesses

29.5% lumbar pain27,3% cervical pain22,6% degenerative osteoarthritis19,8% poor circulation

19,2% low blood pressure



65
Hospitals



408
Primary

Attention



374

Psychiatric Care



327

Sociosanit

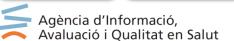


133 Drugs care



3159
Pharmacies







Challenges of the Catalan Health System



Our health care system shows results that placed it at the forefront of European health systems, it's well valued and has become a powerful engine of the national economy. However, future challenges are different and our health system is not prepared to face them

CHRONICITY

Demand growing steadily, with an **aging population** and a **poorer profile of morbidity**

CARE COST

Some resources are becoming limited, with more customized and expensive medical treatments and a growing saturation

Pla de Salut 2011-2015

FINANCING

A financing scheme pressured by the increase in demand and the continuous growth of care costs.



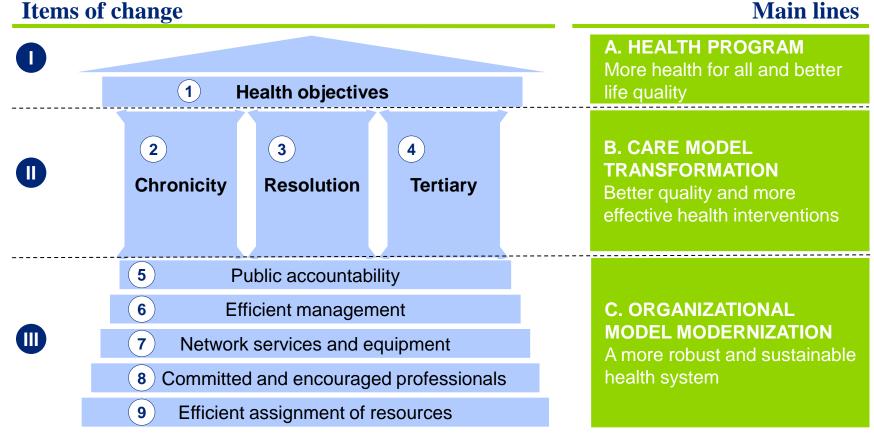




Health Plan 2011-2015



The Health Plan is the tool that should contribute to guide the transformation of the health system. This transformation is divided into 3 areas, 9 major lines and 31 strategic projects which make the health system's roadmap until 2015





The lifecycle information management

The value of the information

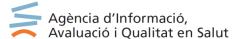
The Health Plan 2011-2015 presents **new challenges**, focused in an organizational transformation that involve a **new health care model**.

The lifecycle information management is a **key element** in this new health care model.











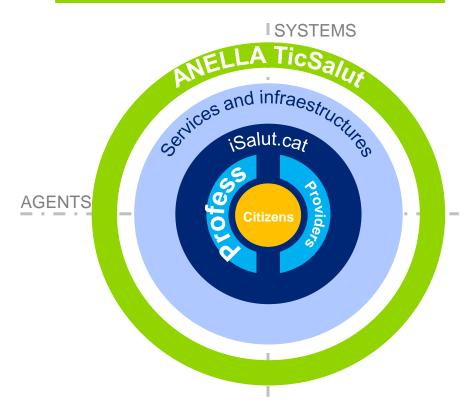
ICT Strategic Plan 2012-2015



In response to the Health Plan 2011-2015, the ICT Strategic Plan defines the strategy of the Agency on ICT issues.

ICT Strategic Plan 2012-2015

Strategic Lines





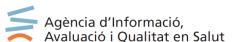
Transform the medical record of Catalonia into an information and shared services network

Deploy a multichannel communication and attention network for citizens

S.L. 3

Ensure the infrastructures and services needed to build a new healthcare model







An information and shared services network



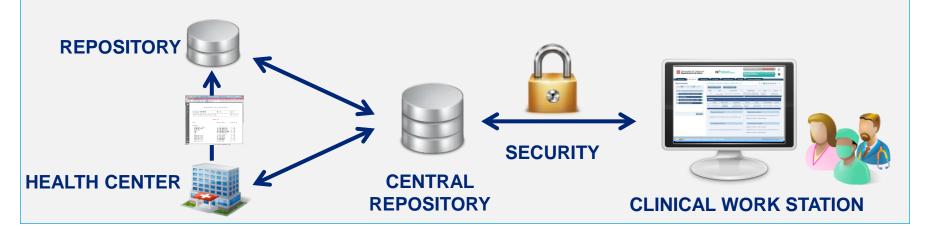
Transform the **medical record** of Catalonia into an **information and shared services** network



The Shared Medical Record is a virtual space to group together the documents about patient's healthcare process.



We're working to include ALL the documentation about the patient's health status and new services focused to coordinate the professionals' work.







A multichannel communication and attention network



Deploy a multichannel communication and attention network for citizens



The **Personal Health Folder** is a **virtual space** where the Health Department store and offer to all the **Catalan citizens**, through internet, **relevant information of their health status to implicate citizens in the care of their own health**.

ACCESS PHF Citizen identification and certification

INFORMATION

SMR

Information from citizen SMR

CAP

Data from the citizen's CAP



No customizable items

FUNCTIONS

PROCEDURES

Management, professional, entities

PREVENTION

Mental Health and sports

SELF-CONTROL

Diabetes, COPD and Sintrom

OTHERS

Expert patient

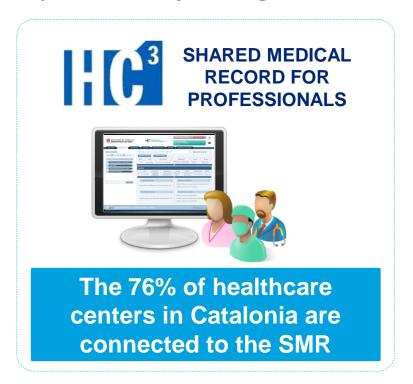


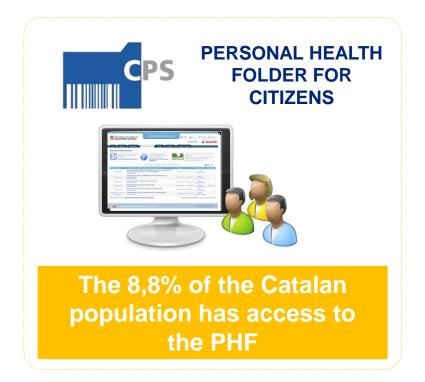
Customizable items



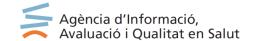


Key ICT Projects' goal





Goal: Provide ICT tools to professionals and citizens to offer quality care to citizens





Mobility, another key element

2009 2010 2011 2012 2013 2014 2015



Definition of the Personal Health Folder as a Strategic Project in the IS-ICT Plan



Usability testing of the Personal Health Folder in Calella



17.000 citizens with access (Calella BHA and blood donors)



88.727 citizens with access (Incorporation of Malgrat de Mar and Lloret de Mar BHA and Palafolls)



Allow access to diabetics



Allow access to all Catalan citizens



Access to Medication plan

Services for a personalized follow-up of patients



Common internet resources and services

Communication and interaction with health professionals

Involvement and presence in social networks

Procedures Virtual Office to access different services



Certificates **eDNI**: 25 million Certificates CatCert: 174.034



Pilot to access the PHF via mobile

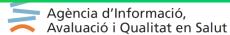


Access via **Canal Salut**











Innovation, another key element



The health care sector needs to **identify innovative management practices** that are taking place to face future challenges.

The Innovative Management Observatory of the Catalan Health Care System is a tool of the system and for the system, that will collect, validate, order and value various management experiences that are taking place in the health care management area

ACTIVITY AREAS



- Catalonia
- Autonomous
 Communities



State



- European
- International

USERS



 Health care system managers



 Public and private health care managers



 Health care professionals

PRODUCTS



- Methodologies
- Experiences



Thank you!





