Health and ICT in Catalonia
Current situation and future plans

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Barcelona, 12 March 2013
"The Health Plan" is the main instrument and reference framework for all public actions in health.

The "Health Plan" sets ICT as the instrument for the change to achieve a new healthcare model.

The "Health Plan" sets a new healthcare model "citizen-centered", aiming at the active involvement and co-responsability in own care.
• The Catalan healthcare model is a **multi-provider one** integrated in a unique public network.

• It enhances **the autonomous management** of each provider.

• Providers are free to select their information systems; however **85% of the primary care centres have the same system** (eCAP)

• **Interoperability** among systems must be guaranteed.
Clinical practice is connected with ALL the agents demanding a change in behaviour. Increase of Quality of care.

Professionals share knowledge in serving continuity of care.

Adding "value" to professionals. Enables continuity of care.

Exchanging information

360° information vision

Sharing Documents
Information sharing among citizens, professionals and organisations is the main challenge in the consolidation of ICT in Health (eHealth).

1. Advanced and mature ICT
   - Mismatch of functionalities available at the different entities
   - Diversity of ICT solutions

2. Transformation of the organisational model in the public HC system

3. A much more active citizen role in the health system

Foster information integration
Foster common services
Rearranging patient centred information services

Diverse isolated ICT solutions

Interoperability among TIC solutions
Vision of the future ICT scenarios

Integrated Health Information in network

Colaboration with/in the eHealth solutions

ICTs in health outcomes oriented

- Availability
- Integration
- Quality and Security

- Reuse
- Share
- Focus

- Evaluation of benefits
- Efficiency
- Innovation
A network of information services for health allowing online access in a secure way with the participation of citizens, professionals and providers for a better health.
¿Which benefits may we expect from iSalut?

**CITIZEN**
- Access TO ALL own relevant health information from any provider and at any time
- Secure Interaction with all the health professionals

**PROFESSIONALS**
- Integrated Information in his workstation
- Tools for clinical decision support
- Collaborative and proactive model among professionals at the different care tiers

**PROVIDERS**
- Relevant Management information
- Monitoring and support to the process management
- Improved quality Evaluation

**ENTERPRISES PROVIDING ICT**
- Stable Escenario with reference frameworks for innovative Projects.
- Tools and common models
interoperable
SoS tenible
Re-a provechable
Co-responsable
Modelo com u n
Proactivo
The **Project Historia Clínica Compartida de Catalunya** follows a decentralised model, interfacing through **interoperability and common standards**.

It allows **access**, in an organised manner to all relevant information of the EHRs distributed over the healthcare centres of the country.

**Deployment of the (EHR) “Historia Clínica Compartida de Catalunya”**

- **85,5%** hospital care
- **96,6%** Primary Care
- **25,6%** Mental care
- **15,0%** Social care centres

- **49.075.047** published documents
- **21%** increase from 2011-2012

- **48.517** professionals accessing to Historia Clínica Compartida de Catalunya
Current deployment

- 76% of HC centres in Catalonia are connected to HC3

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<th>Hospitals</th>
<th>Centres AP+AE</th>
<th>Centres SM</th>
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<tr>
<td>Professionals</td>
<td>92 %</td>
<td>78 %</td>
<td>38 %</td>
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<td>Professionals daily usage of HC3</td>
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<td>HC3 being daily surveyed</td>
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<td>Documents published daily</td>
<td>47.260</td>
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<td>Radiology Images published in HC3</td>
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Generalitat de Catalunya
Departament de Salut

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Funcionalities of the Catalan EHR

1. ePrescription
2. Images Publishing
3. Telemedicine
Moving from HC3 to iSalut

Information Network

- Information repository
- Reactive

- Network of services
- Proactive
Digital space personal and non-transferable owned by the citizens, where they have all relevant information about own health.

- Co-responsabilty of the citizen of own health cared
  - More efficient self management of the HC resources

- Lay down Public-private partnerships
  - Availability of more functionalities for the citizen

- Surveillance of patient’s medication Plan
  - Better treatment adherence
In 2012 there was a steady and gradual deployment both of the CPS, and their functionalities for all citizens in Catalunya.
Moving from Carpeta Personal de Salut (PHR) to Channel

- Repository
- Static

- Interactive channel
- Not F2F care model
- Proactive
Dispensation of the ePrescriptions (eP) during December 2013 are **85’3% of the total of the invoiced prescriptions**.

**Average deployment of ePrescription in the 7 Health regions is:**

- 89% a Lleida
- 86% a Catalunya Central
- 86% a Alt Pirineu i Aran
- 86% a Girona
- 85% a Barcelona
- 84% a Camp de Tarragona
- 84% a Terres de l’Ebre

- **Patients:** 84% of patients being prescribed with eP already have 90% of their prescription in eP.

- **Doctors:** 90% of physicians do ePrescripció (at least 50 prescription in a month).
## ePrescription. Volume (February 2013)

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<td>METGES*</td>
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- Number of codes informed by different registered physicians in SIRE.

- In average the daily activity is over 377,000 ePrescription that undergo eDispensation.

- In the lst 4 weeks, there was an increase of 1.7% of patients using the ePrescription/eDispensation.

http://www.youtube.com/watch?v=mv1WB4xknKU&list=PLFA8B13CF8787B95D&index=6
A common messaging model based on HL7

- Current model

- Common comunicación model
System, devices and services certification

- Align the providers need with iSalut.cat
- Align ICT products changes/updates with isalut.cat
- Guarantee compliance with interoperability requirements
- Expedite the deployment of isalut
Common clínical terminology

Hospital Care

Primary Care

Home Care

BBDD Knowledge
ICT and Health in Catalunya
Current situation and future deployments

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Barcelona, 28 de febrero de 2013