

eHealthLL

Granada Wellbeing and eHealth Living Lab

TELEFÓNICA I+D

Date: January 2008

Luis Pablo del Arbol Pérez

lpap@tid.es



Telefónica I+D Center in Granada



- **TI+D's Center in Granada** exists due to an agreement with the Corporate Network of the Andalusian Government.
- It has been agreed that our centre would be located at Granada's new Health Sciences Park, working in the same areas, focusing on Healthcare, which will be later opened up to Teleassistance and Social care. The government suggested that the focus should be broadened to other areas within telecommunications.
- An ongoing collaboration is maintained with the Andalusian Government (Ministry of Innovation, Science y Employment) and with the Ministry of Health, counting on the continuous support and coordination of Telefónica de España, both for the setting up of the centre as well as for the definition of its activity and development.

Wellbeing and Health Living Lab



- A Living Lab is a group of entities (public and private) and an associated infrastructure where companies, public bodies, research centers and citizens actively take part in the innovation process, co-creating and validating technologies, platforms, products, services and business models in the ICT sector as well as in the real life.
- Living Labs take experimentation out of the labs to daily life environments, making citizens participating. The Living Lab concept focuses on **Open Innovation** inside a social environment and throughout a network of companies (big ones and SMEs), professionals and users, giving sense to it, in the opposite direction of the traditional research done in and by R+D university and multinationals labs.
- The aim is to make all **stakeholders** to participate in the innovation process to promote **co-creativity**. Over a basic deployed infrastructure, new services could be created and verified about utility and validity, in collaboration with other stakeholders.
- This kind of **Open Innovation naturally fits in the scope of Wellbeing and Health systems**. That's why, TID center in Granada is leading the creation of a Living Lab in these two areas.

Integrated on ENoLL

- ENoLL is the **European Network of Living Labs**

Its mission is to coordinate the development of an European network of Living Labs, making it easier to exchange experiences and information among the different Living Labs integrated in the Network.

- The Living Lab for Wellbeing and Health belong to ENoLL with the brand eHealthLL: eHealth Living Lab for Teleassistance & Home Hospitalization
(http://www.cdt.ltu.se/main.php/ENoLL2_Leaflet_Spain_eHealth-Granada.pdf?fileitem=1511434).

Wellbeing and Health Living Lab

Composition

- Entities with very different expertise will take part in the Living Lab Coordination Board

- Companies

- Telefónica
- INTEL
- Investrónica
- Sun Microsystems
- ...



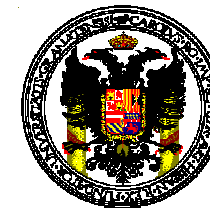
- Regional Public Entities

- Ministry of Health



- Universities

- Universidad de Granada



- Public and private Research Centers

- SMEs

Wellbeing and Health Living Lab Scenarios

Two different scenarios of labs will co-exist:

■ Stable home network & Hospital

- 30 homes with actors from very different user groups
 - Elderly people
 - Chronic patients
 - Disabled people
- Hospital Clínico de Granada
 - CELTIC project SafeLab



■ Temporary Labs for specific user groups

- Teleinterpretation center for deaf people
- Blind people
- Rehabilitation groups
- ...



- This temporary labs will enrich with part of their users, the stable Living Lab, complementing the set of user groups available for the projects

Wellbeing and Health Living Lab

Target projects and Infrastructure

- The eHealth Living Lab will offer three real environments to test ICT's in Health (eHealth):

Remote Elderly Care

- Videoconference based services
- Mobile phones based Outdoor location
- Biometric information gathering.

In-hospital technologies

- Rooms: TV on demand, Special sensors
- Hospital: IP connectivity (Internet2), data servers, Wireless in/out of the hospital, Easy to deploy new technology
- Tools: EHR available in these TV sets, Indoor/outdoor location, RFID, ultrasounds, non-electronic or electric devices (wheelchairs, walkers, beds,...)

Home Hospitalization

- Multi-video conference
- Outdoor/indoor location
- Domotics
- Device remote control
- Home and mobile Sensoring
- Information gathering from user environment
- Information analysis
- Multimodal interfaces
- Ambiance Intelligence

Wellbeing and Health Living Lab

Objectives

Among all the objectives to be achieved with the creation of the Wellbeing and Health Living Lab, we highlight:

- To make easier the product and service tests with real users, to detect needs and lacks.
- To incentivize ICT use in the field to Wellbeing and Health.
- To create business opportunities in eHealth systems.
- To catalyze research, develop, and innovation initiatives.
- To accelerate the adoption of standards.
- To become a high quality brand as well as a reference on Wellbeing and eHealth projects.

Wellbeing and Health Living Lab

Activities

- Social Teleassistance for elderly people.
 - Teleassistance advanced services at elderly people homes who take part in the Living Lab.

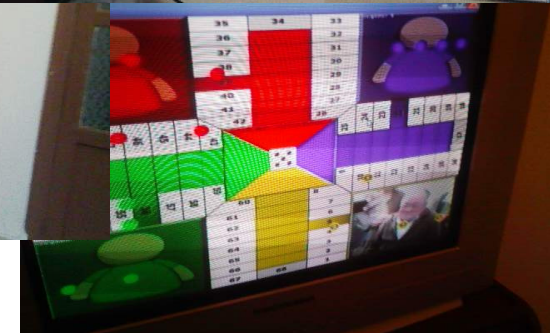
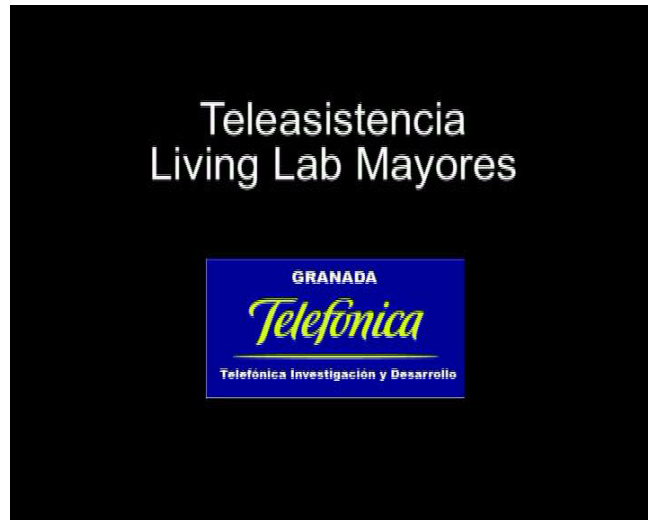


SPECIFIC PROJECTS:

- Interpretation Center for Deaf people.
 - The Interpretation Center will be used by a group of 100 deaf people in Andalucía.
- Navigation system for Blind people.
 - To experience the developed system by blind people in the Living Lab.
- Advanced technologies for remote Rehabilitation
 - To practice with rehabilitation (physical and psychical) games at the homes of the Living Lab users.



Social Teleassistance for elderly people



Telefonica
