

Health@HomeLL

Wellbeing and eHealth Living Lab at Telefónica I+D Granada

TELEFÓNICA I+D
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01 Telefónica I+D Center in Granada

- Its activity begins on February 2006, based on the agreement associated to the Andalusian Government Corporative Network contract.
- The final location of the center will be in the **Health Sciences Technological Park of Granada**, aligned with the main focus of the center: **Health, Teleassistance and social/sanitary care**.
- Center staff (February 2008) rises up to **42 people**: 20 of them directly contracted, 7 bachelors and 15 external collaborators.
- **8** innovation projects with national funded.
- **4** research projects at European level.
- Numerous collaborations with universities, hospitals, research institutes and companies.



01 Telefónica I+D Center in Granada

- **Mission:**

To put Telefónica customers quality of life and wellbeing in the very center of the innovative service generation process, to satisfy their needs, offering advanced applications both for individuals and providers, covering eHealth as well as social/sanitary care.

- **Strategy:**

To search and develop innovative solutions with high market possibilities, able to bring breaking features to Telefónica's proposal.



Social teleassistance



02 R+D applied to the social and sanitary environment

- Telefónica I+D, in its center of Granada focuses its effort to create **innovative services** in:
 - New models of social and medical care: **Telemedicine, teleassistance and telerehabilitation.**
 - **Impaired people** supporting.
 - Tools to improve **care quality** and **sanitary management.**
 - Tools for **collaborative work** among professionals, in the sanitary environment.

... throughout the application of new cutting-edge **Information and Communications Technologies.**

02 R+D applied to the social and sanitary environment

- Telefónica I+D researches the application of **cutting-edge technologies** in the citizen's Health and Wellbeing:
 - Ambient Intelligence.
 - Open and interoperable plataforms to provide services.
 - Wireless communications.
 - Communications over IMS, NGN, IP, fixed and mobile networks.
 - Advanced multimedia interfaces.
 - Biometric devices and sensors.
 - Platform to integrate clinical information.



03 Living Labs: Innovation models

- A Living Lab is a **new concept for R&D** and innovation, based on the **human-centric involvement** and its potential for development of new ICT-based services and products.
- It is all done by bringing different stakeholders (public and private) together in a **co-creative way**.
- The idea came from MIT in 2003: the **PlaceLab**



The purpose and scope of Living Labs are diverse, but they all share:

- **Open Innovation** within a **social environment**.
- **Network** of companies, public organizations, professionals and users, actively participating in the innovation process.

03 Living Labs: 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.



03 Living Labs: Teleassistance & Home Hospitalization

Andalucía - European Network of Living Labs

Country	W ^a	Living Lab Name	HQ Location	Country	W ^a	Living Lab Name	HQ Location
Austria	1	Mobile City Bregenz	Vorarlberg	Ireland	1	Arc Labs Waterford	Waterford
Austria	2	CEIT Living Lab	Schwechat	Italy	1	Frascati LL	Frascati
Belgium	1	Open InnovationCentre	Brussels	Italy	2	Trentino as a Lab	Trento
Belgium	1	IBBT-iCity	Hasselt	Italy	2	ITL	Bologna
Czech Rep	1	Wirelessinfo LL	Litovel	Italy	2	TLL Sicily	Monreale
Denmark	2	Copenhagen Living Lab	Copenhagen	Netherlands	1	Freeband experience lab	Enschede
Finland	1	Helsinki Living Lab	Helsinki	Portugal	1	Madeira LL	Madeira
Finland	1	Tuuku Archipelago	Pargas	Portugal	2	SJM-ILL	S. João da Madeira
Finland	2	Agro Living Lab	Seinäjoki	Portugal	2	Creative Media Lab	Lisbon
Finland	2	Kainuu Living Lab	Vuokatti	Portugal	2	RENER	Lisbon
Finland	2	Lahti Living Lab	Lahti	Portugal	2	ECO LivingLab	Cnamasca
Finland	2	Northern Rural Urban	Oulu	Portugal	2	Living Labs Minho	Guimarães
Finland	2	Laurea LL network	Vantaa	Slovenia	1	Slovenia eLivingLab	Kranj
France	1	ICT Usage Lab	Sophia-Antip.	Slovenia	2	ICT Techn. Network	Ljubljana
France	2	Quartier Numerique	Paris	Slovenia	2	Slovenian automotive	Ljubljana
France	2	LEVIER	Lannion	Spain	1	i2Cat Catalonia Dig Lab	Barcelona
France	2	Normandy Living Lab	Caen	Spain	2	Cudillero Living Lab	Cudillero
Germany	1	Mobile City Bremen	Bremen	Spain	2	Spain Living Lab	Sevilla
Germany	1	Knowledge Workers LL	Munich	Spain	2	eHealth LL	Granada
Germany	2	VDC	Fellbach	Spain	2	Zaragoza Living Lab	Zaragoza
Germany	2	ViRaL Cooperation Lab	Sankt Augustin	Sweden	1	Botnia Living Lab	Luleå
Greece	2	Lever	Thessaloniki	Switzerland	2	Cyber Care Clinique	Rotkreuz
Hungary	1	Győr Automotive	Budapest	UK	1	Manchester EastServe	Manchester
Hungary	1	Gödöllő Rural	Budapest	UK	2	Digital Lifestyles Centre	Colchester
Hungary	2	Creative Knowledge Centre	Kecskemet	UK	2	TRAIL	Newtownabbey
				UK	2	Scottish Living Lab	Edinburgh

European Living Labs are **clustering** into **thematic groups** to collaborate and share experiences on:

- eHealth
 - Agriculture and Rural Development
 - Industry
- ... among others

European LL dedicated to

European supported initiative

the European Network of

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Wellbeing and Health Living Lab

Mission: From the **eHealthLL experience**, to drive **research, develop and test** technologies in real living environments related to innovative eHealth and Telecare services.

Organization: An autonomous legal entity, in charge of its management and promotion

Goals:

- To make easier product and service testing with real users.
- To identify needs and create business opportunities for eHealth systems.
- To promote ICT use in the field to Wellbeing and Health.
- To accelerate the adoption of standards.
- To complement future and ongoing projects on Wellbeing and eHealth.

Board of members.



Companies



Regional Health Ministry



Univ. Of Granada

Public Entities

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Target projects and Infrastructure

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

Remote Elderly Care

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

In-hospital technologies

- Multi-video multi -device conferencing
- Monitoring tools.
- Supporting tools for remote diagnostics
- Integration platforms with clinical information systems
- RFID devices and tools.

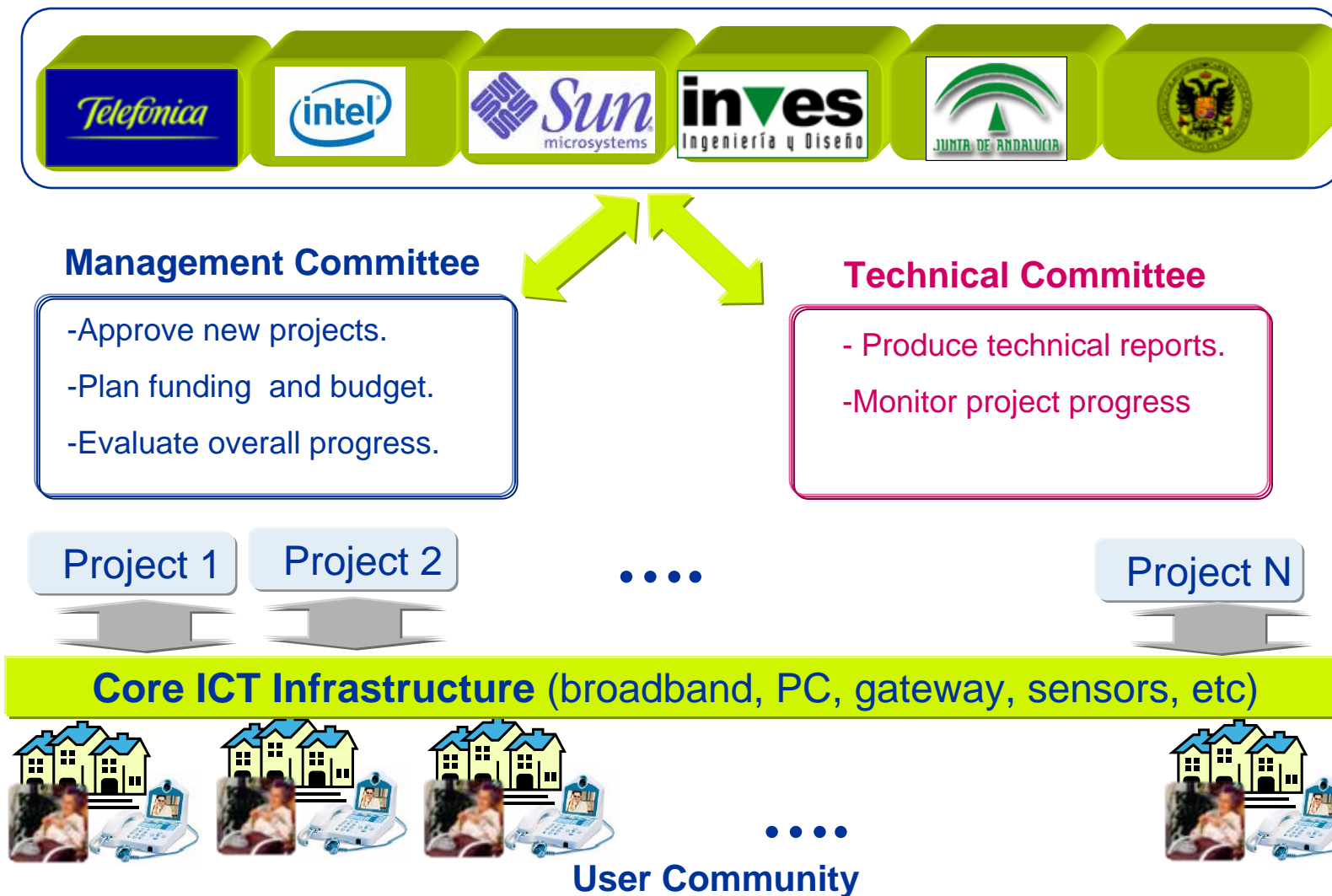
Home Hospitalization

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

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Organization

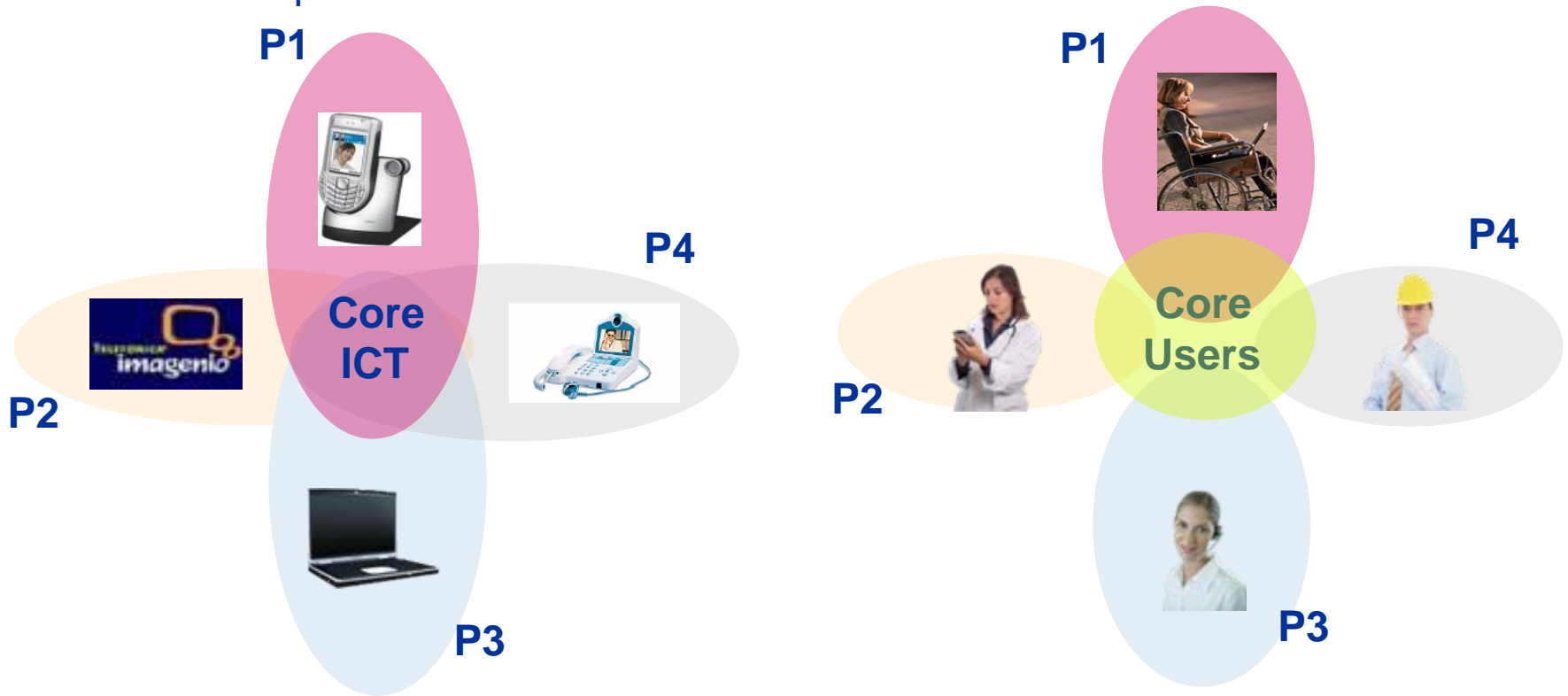
Board of members



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An open R&D Platform

- The Living Lab provides a **stable user community** and **ICT core infrastructure**.
- New projects are built on top of them by **adding new technologies and/or users** tailored to their specific needs.



Incrementing the range of technologies

....and the range of users

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Scenarios

Two different scenarios of labs will co-exist:

Stable home network & Hospital

10 homes with actors from 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 group



Consolidated Projects

- Permanent funding (by consortium members)
- Long-term scope.

New Projects

- Bring their own funding
- Short and mid-term scope.

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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.



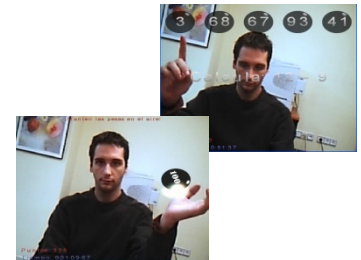
■ Navigation system for Blind people.

- 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.



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