

INSTITUTO PEDRO NUNES Associação para a Inovação e Desenvolvimento em Ciência e Tecnologia Rua Pedro Nunes 3030-199 Coimbra

**PORTUGAL** 

INSTITUTO PEDRO NUNES Association for Innovation and Development in Science and Technology Rua Pedro Nunes 3030-199 Coimbra PORTUGAL



Technology Transfer

Bridging the gap
between



#### IPN's Infrastructures





**LABGEO** Laboratory of Geotechnique

**FITOLAB** Laboratory of Phytopathology

LAS Laboratory of Automation and Systems

**LEC** Laboratory of Electroanalysis and Corrosion

**LED&MAT** Laboratory of Wear, Testing and Materials

LIS Laboratory of Informatics and Systems

IPN's Business incubator

**GAPI** Industrial Property Promotion Unit





# Laboratory of Automatics and Systems

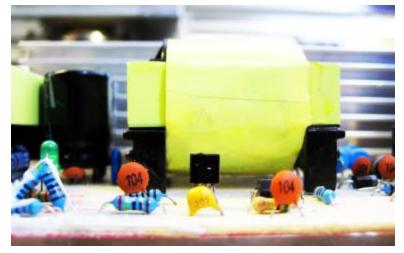




IPNIas is one of the laboratories of IPN, being one of the laboratories founders, where are developed projects in partnership with companies, the community and entities of the public domain.

IPN answers to concrete subjects and find solutions for problems on different subjects such as Automation, Robotics, Image Analysis and Instrumentation, including Medical Imaging and Instrumentation.







# Laboratory of Automatics and Systems







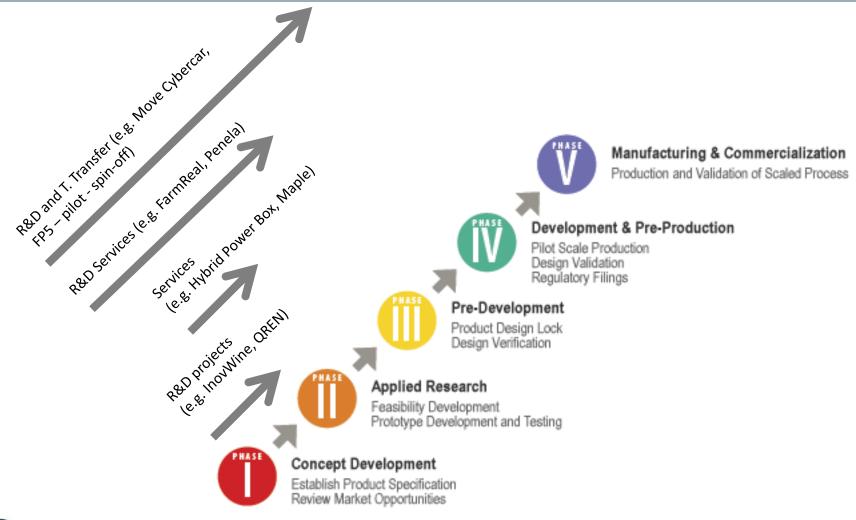
IPNIas activities are consequence from the activities and collaboration from investigators of Department of Electrical Engineering and Computers (DEEC) and the Institute of Systems and Robotics (ISR), from de University of Coimbra.

The laboratory is responsible for activities of technology transfer, consultancy and incentive for foundation of spin-offs.



# IPNIas contribution in Product Development Life Cycle





#### **IPNlas Business Model**





R&D Projects
deut

Opportunities dentification and Networking

Proposals Submission Project Management and Execution

Lab and Pilot Tests Results Exploitation (IP and TT)

Support Activities Infra-structures

**Human Resources** 

**Technologic Development** 

**Purchases** 

Technology
Transfer
Services
Provider

Marketing, Dissemination and Networking Offers and Needs Identification

New Clients Achievement Project Management and Execution

Client Support



#### **IPNIas Business Model**





Opportunities dentification and Networking Submission

University Knowledge

Project Management and Execution

Lab and Pilot Tests Results Exploitation (IP and TT)

Support Activities Infra-structures

**Human Resources** 

**Technologic Development** 

**Purchases** 

Technology Transfer Services Provider

Marketing, Dissemination and Networking Offers and Needs Identification

New Clients Achievement Project Management and Execution

University

Knowledge

Client Support



#### **IPNlas Strategic areas**





AAL, Health and Quality of Life

Mobility of people and goods

**Agriculture** 

**Robotics & Automation** 

**WEB Sensing** 

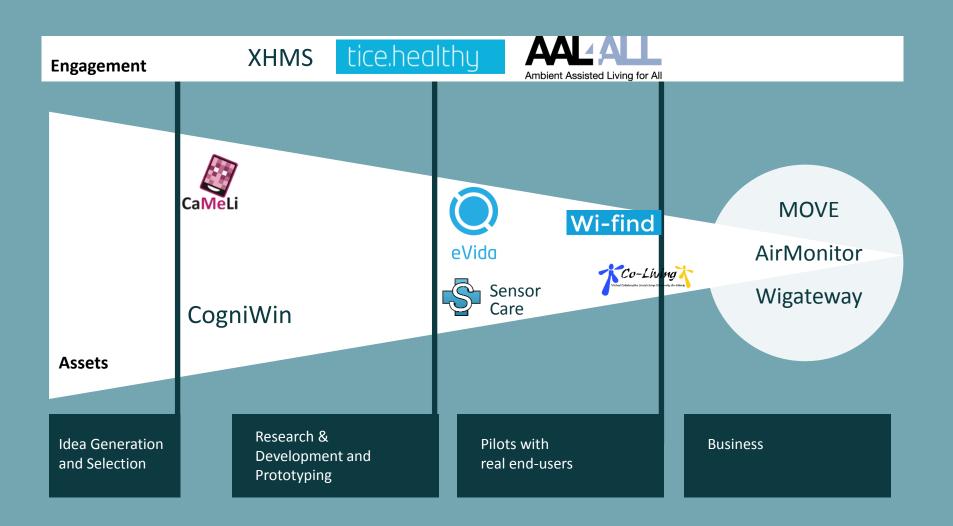
**Engineering for Sustainability** 



# IPN HEALTH AND AGEING INNOVATION FUNNEL







### Products









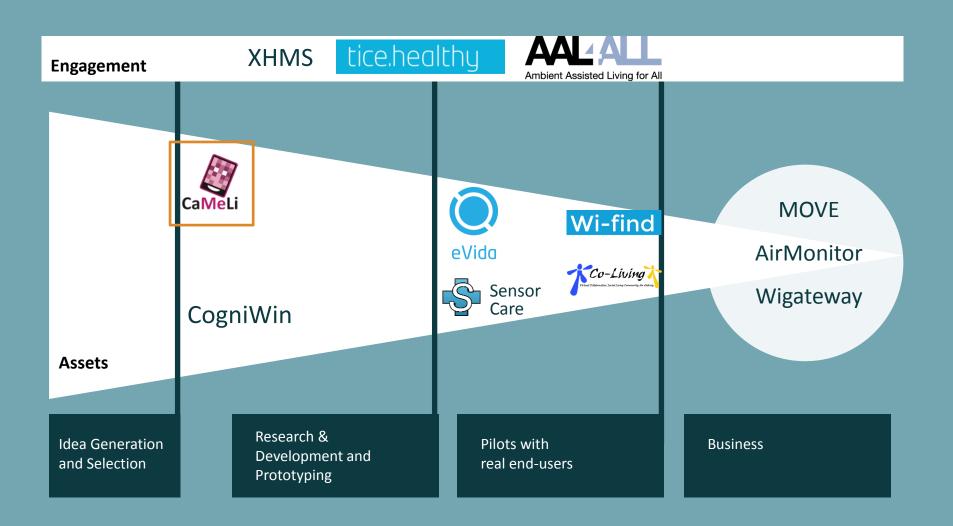




### CaMeLi







### CaMeLi







Provide a system that simulates the way the elder was used, or would like, to interact, collaborate and dialogue, with a human life partner, understanding his emotions and assisting him/her in carrying out daily life activities at home, expressing emotions that will motive the elder to act.

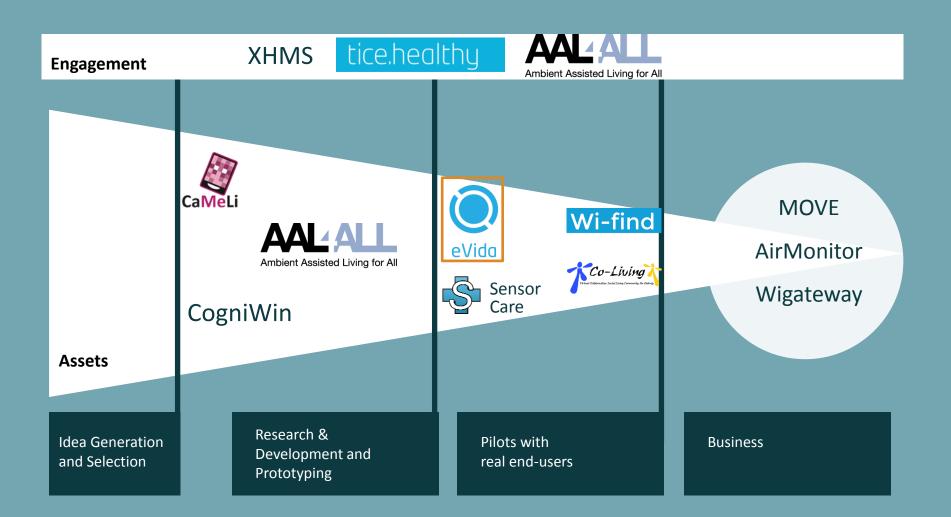




### eVida









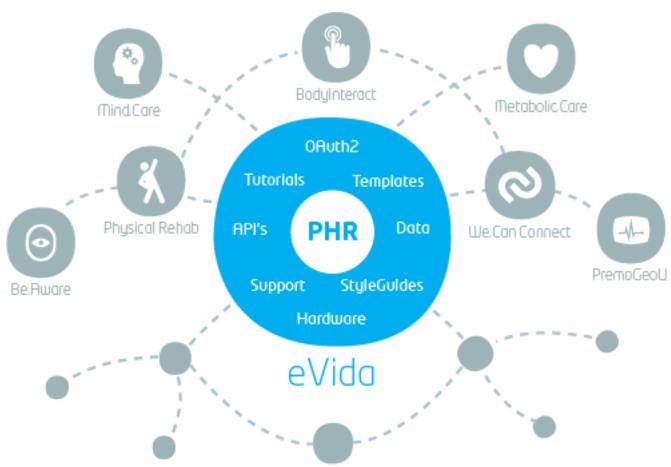
Offers an infrastructure to support an ecosystem of intelligent services and innovative ICT applications and products for Health and Active Ageing (informal care).



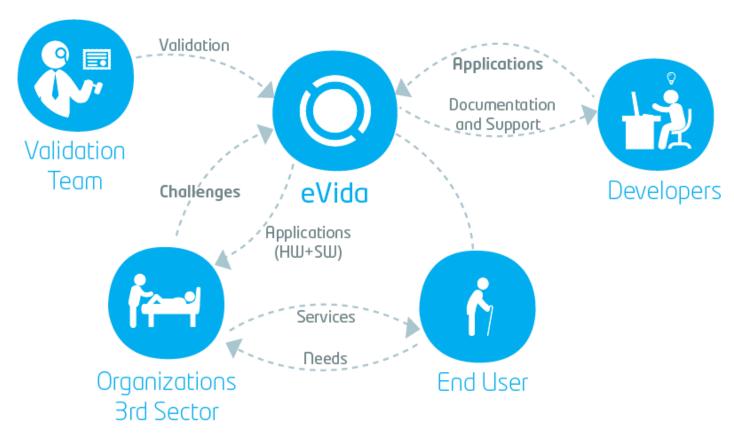
### eVida











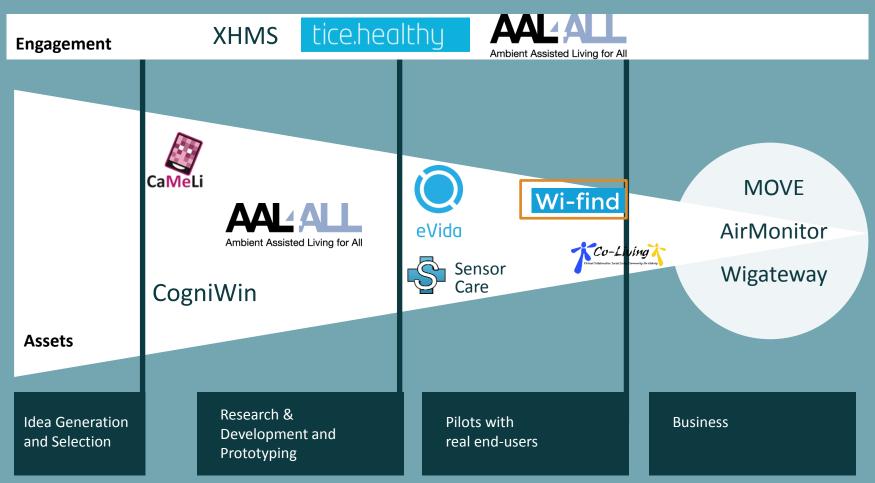


### Wi-find





#### IPN HEALTH AND AGEING INNOVATION FUNNEL



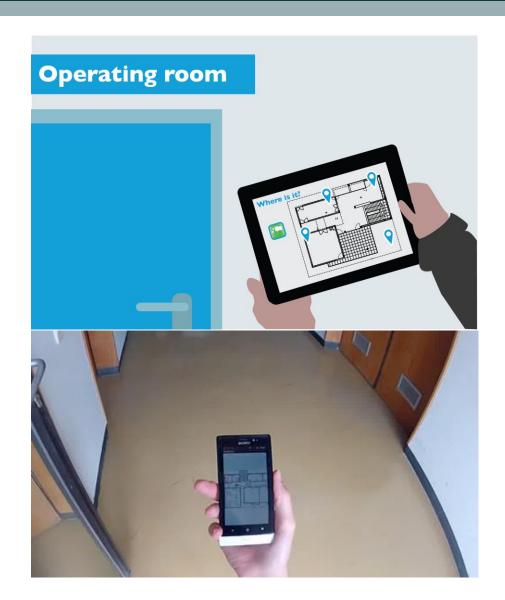
### Wi-find





### Wi-find

Localization method based on common Wi-Fi networks (IEEE 802.11), with server side logic to do and monitorize locations inside buildings.



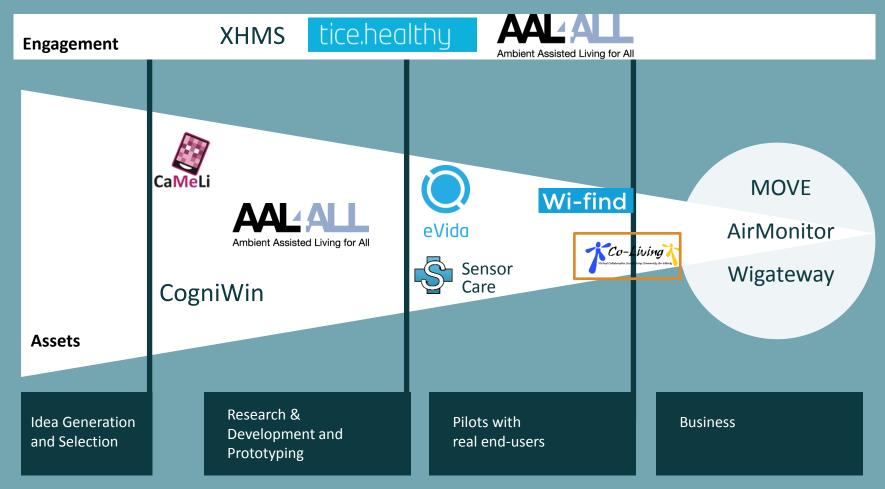


# IPN HEALTH AND AGEING INNOVATION FUNNEL





#### IPN HEALTH AND AGEING INNOVATION FUNNEL



### Co-Living







The main goal of the proposed project is the development of an ICT-based Virtual Collabora- tive Social Living Community for Elderly (Co-LIVING) people, aiming to stimulate and prolong their independent and active living in an outward environment through an advancement in elderly people social interaction, contributing thus positively to their wellbeing.

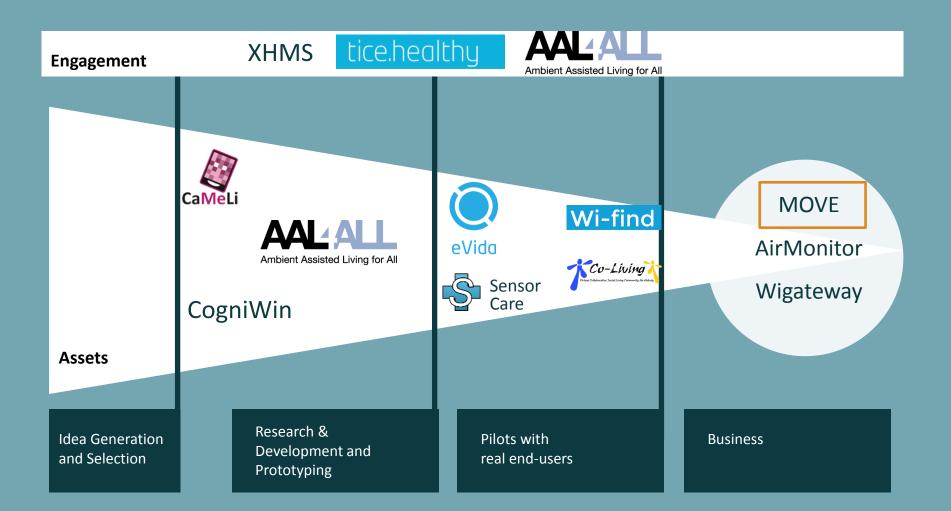




### MOVE







### MOVE

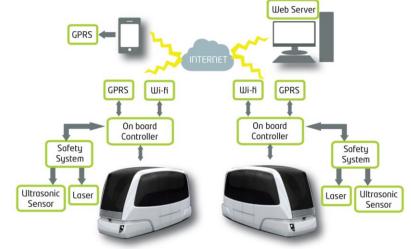




The Intelligent Transport System (ITS) developed by IPNIas, use electric vehicles built with leading edge technology, designed to be easily used for small trips at low speed in urban or private environments, to complement regular public transports.

The vehicle exclusive feature is its autonomy - it is a vehicle without a driver, fully automated.



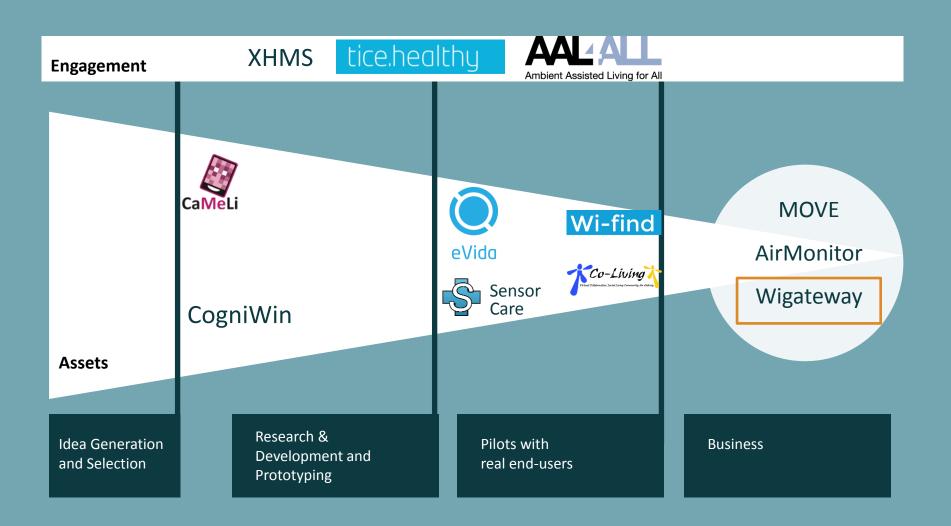




### Wigateway Physiosensing







### Wigateway Physiosensing





This system brings data from sensors through a WLAN (Wireless Local Area Network) to a client application.

This system performs functions as acquisition, amplification and transmission of data from a set sensors simultaneously.

The communication between the sensors and the client application is near real-time and based on the standard Wi-Fi.



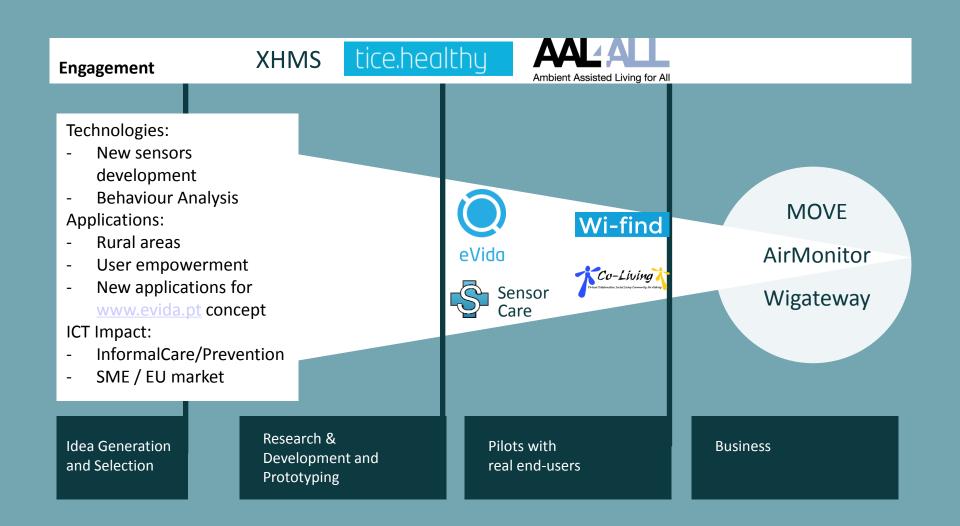


sensingfu+ure

### H2020 Ageing topics







### Ageing@COIMBRA

## Ageing@Coimbra

Regional Ecosystem
Reference Site of the EIP on Active
and Healthy Ageing

143,396 people 28,786 +65 old people (20.07%)



