



European AAL Day

Berlin, 1st February 2008

ingema
instituto gerontológico matia

robotiker
tecnalia

a Technology Center specialised in ICTs

■ AAL experience:

▶ “ABLE Technologies” → **Assistive products and accessible technologies research and development.**

- ▶ Communication and device control interfaces for people with special needs,
- ▶ Ambient Intelligence (AmI) applied to the home and aimed at people with disabilities and elderly people
- ▶ Universal design

▶ Ambient Intelligence Laboratory. Smart Home demonstration platform.

▶ References:

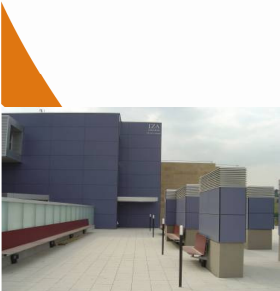
- ▶ SOPRANO. Service oriented programmable smart environments for older Europeans (IP from IST-AAL call of FP6).
- ▶ AMIE. Ambient Intelligence for Elderly (ITEA2 project).





Who we are? (II)

- Ingema Foundation is a research center established in 2001 for the development and transfer of interdisciplinary scientific knowledge in the context of aging and disability.
- Direct contact with end users.
- Extensive experience in aspects related to data privacy and ethics, through its ethics and research committees.
- An interdisciplinary team of qualified professionals (geriatricians, neuropsychologist..) with broad knowledge and extensive experience regarding the elderly, with varying profiles.
- Different scenarios in which carry out usability tests (7 Gerontological centres, 1 geriatric hospital, 4 Day centres, laboratory...).
- References:
 - SOPRANO. Service oriented programmable smart environments for older Europeans (IP from IST-AAL call of FP6).
 - AMIE. Ambient Intelligence for Elderly (ITEA2 project).
 - I2HOME. Intuitive interaction for everyone with home appliances based on industry standards (IST-2005-033502 call of FP6)



What is our idea for a project?

Behavior Pattern Based Assistant for Prevention and Management of Neurodegenerative diseases

The aim of this project is...

Increment the time of quality and independent living at home of elderly people with chronic conditions and their caregivers.

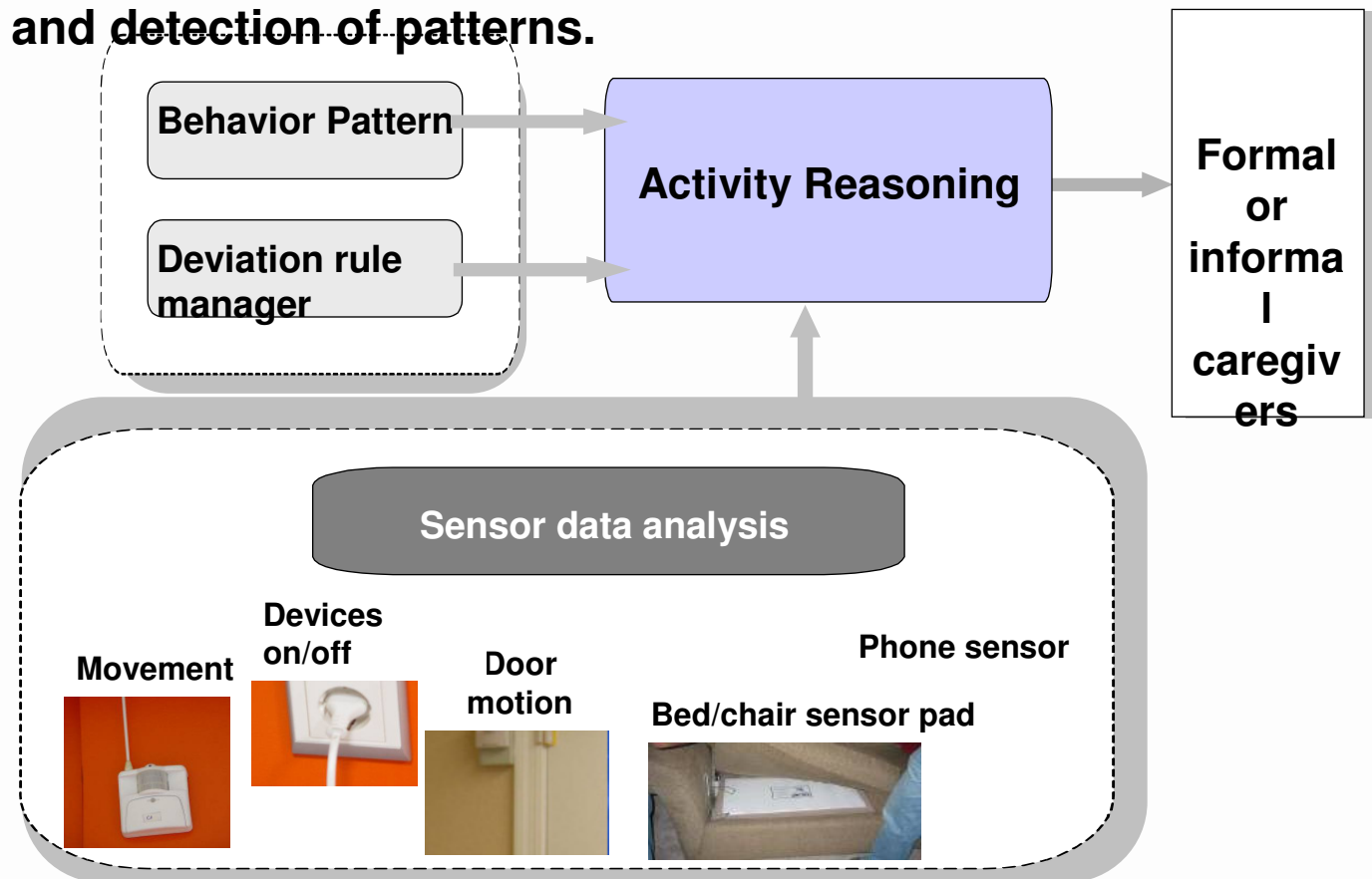
Using in-home low-cost, non-invasive sensor network to..

Early detection ...

- Difficulties or problems to perform ADL
- Behavioral disturbances
- Control the evolution of the impairments and inform the health professionals and/or caregivers when it detects a decrease in performance.

What is our idea for a project?

- Behavior pattern recognition. Behavior pattern deviations detection. Behavior rule management.
- Algorithms and data mining techniques for reasoning, temporal modeling and detection of patterns.



Who else we would like to include in our project?

- **Other partners interested in the project:**
 - ▶ German Research Center for Artificial Intelligence (DFKI GmbH)
- **We would like to complete the consortium with other European partners, industrial and R&D partners, interested in the idea.**



INNOVA – ABLE Technologies

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