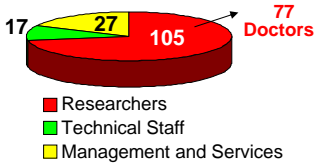


**CEIT's profile**

- Private, non-profit research centre
- Mission: **link to industry** by medium-long term R&D projects and training of young researchers
- Close connection with the **University of Navarra** (Engineering Faculty)

**Human resources**

- Permanent staff: **149**
- PhD students: **96**



**Annual figures of activity**

- Research projects **120**
- Patens **7**
- Ph.D. Theses **15**
- Papers in SCI journals **60**
- Communications in conferences **60**


**Electronics Department**

- Industrial Systems Modelling
- Analog/Digital Signal processing
- System Integration

**Multidisciplinary centre**

- Materials Department **37%**
- Electronics and Communications 25%**
- Applied Mechanics **20%**
- Environmental Engineering **12%**
- Microelectronics and Microsystems **6%**

**NAVIGATOR**, proposal for IST 6th call



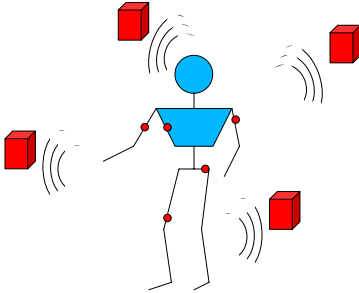
**Navigator: Strep for the 6<sup>th</sup> call-AAL**  
 Detect falls in elderly people using an indoor Navigation system.

- Fear or result of falling accounts for 40% of the nursing home admissions.
- 1/3 of elderly people fall each year.
  - + User unable to raise a call.
- Fear of falling decrease quality of life:
  - + accelerate decline in ability, self-imposed isolation, refusal of mobility.
  - + Automatic fall detection: safety net.



## System description

- Navigation information: reliable system



- Combines user wearable tags and ambient intelligence.
- Passive alert system.
- Observation less intrusive than cameras



## **LOOKING FOR PARTNERS**

- Researchs partners:
  - Development of Navigation System
  - Development of software for user and environment model building
  - Development of software for decision making
  - Local foundations or associations for testing.
- Industrial partners:
  - System Integration: tags and base-station fabrication
  - Platform for connection to emergency services
  - Exploit results of project
- End users:
  - Community emergency services, local foundations



## Contact

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