



– CARE –

Safe private homes for elderly persons

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AIT Austrian Institute of Technology CARE project coordinator

- Austria's largest non-academic research institution
- Approx. 1000 scientific staff
- At 10 locations in Austria

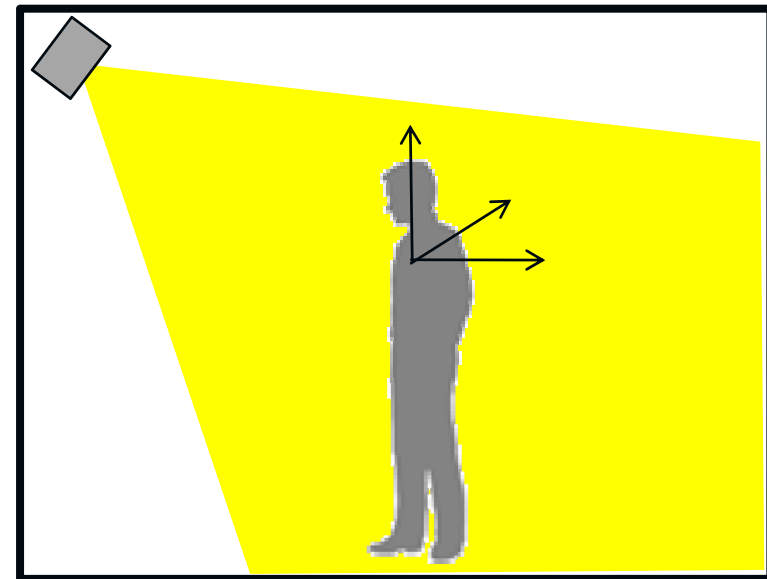


CARE Consortium

DE	 <p>sensocube Visual Sensorics and Information Processing</p>	 <p>Residenz-Gruppe Bremen</p>
AT	<p>Coordinator</p>  <p>AIT AUSTRIAN INSTITUTE OF TECHNOLOGY TOMORROW TODAY</p>	
FI	 <p>exrei Electronically connected</p>	<p>YRJÖ ja HANNA -SÄÄTIÖ</p>
HU	 <p>Budapest University of Technology and Economics</p>	

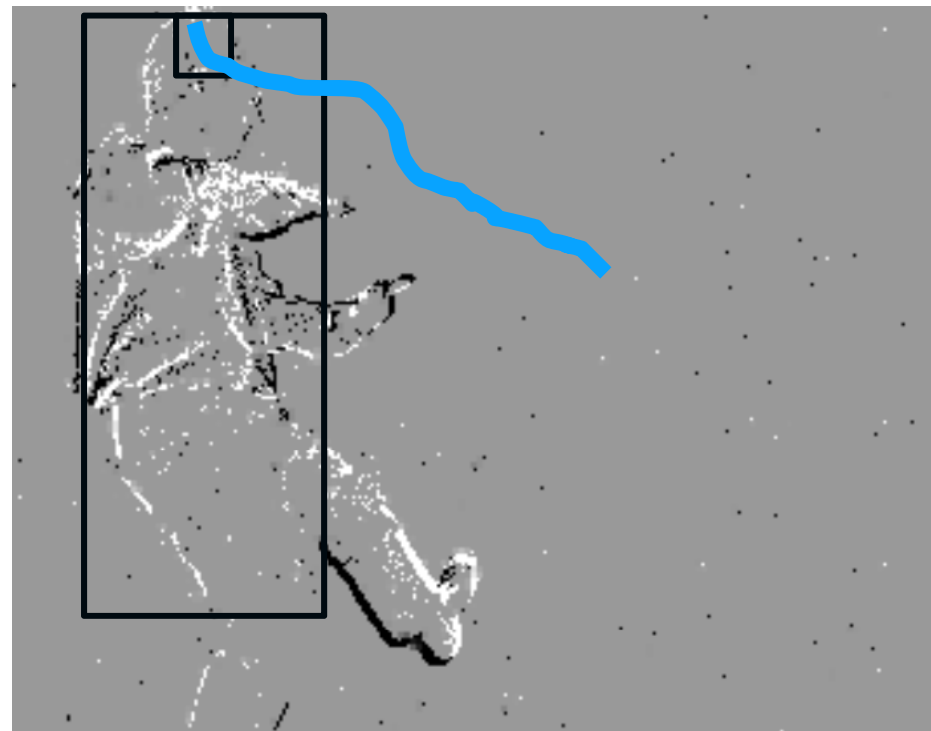
Aim of the project

- To support independent living for the elderly
- Realization of an intelligent optical tracking and alarm system
- Detection and information on critical situations (e.g. fall) and unusual behavior (e.g. not getting up in the morning)
- Compact, embedded system, refurbishing of existing homes/apartments possible
- Integration with an established wireless home care system



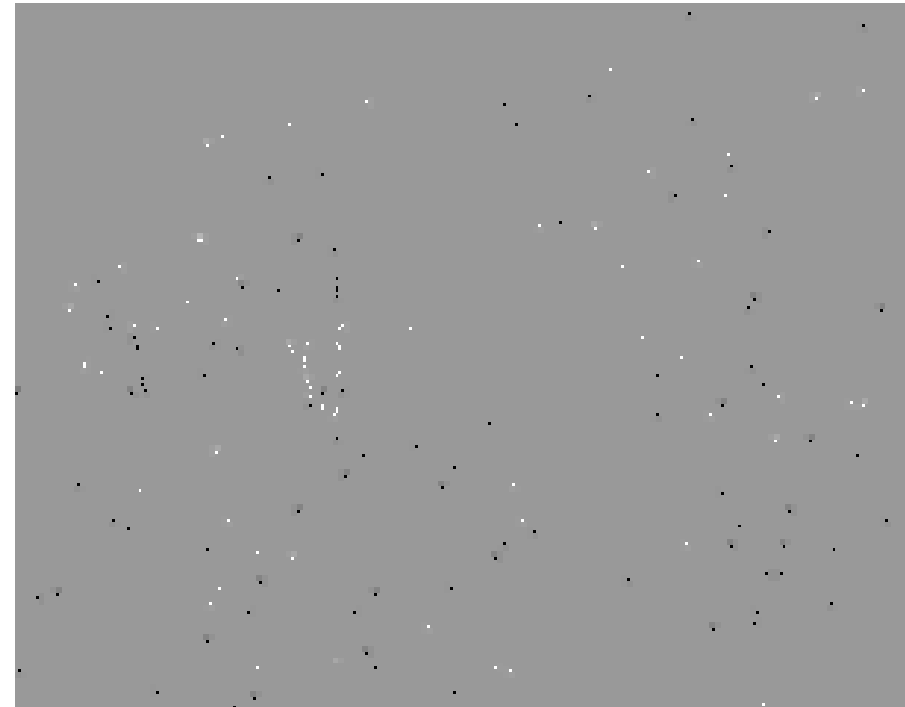
AIT provider of the CARE core technology

- Specially developed optical CMOS motion detector chip
- Biologically inspired electronic device
- Stereoscopic 3D information
- Tracking of persons head
- Core CMOS technology only available through AIT



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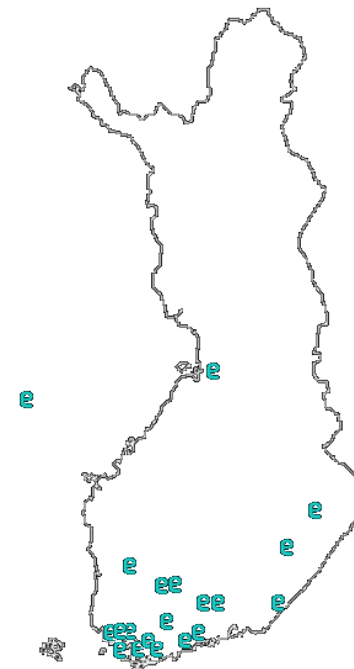
User Target Group

- Care homes for elderly people (staff support)
 - Automatic alarming of nurses in case of emergency
 - Autonomous, wireless system (no additional devices e.g. PC necessary)
 - Cost effective, 24 hours/7 days per week operation

- Elderly living alone
 - Easy integration in existing homes
 - Protection of privacy based on a novel optical motion sensor technology (no images)

Oy Exrei Ab: Finnish SME for Health Care Systems

- Product 'Everon'
(www.everon.fi): Wireless alarm-, control-, and sensing developed and distributed by Exrei
- Everon care system combines a home-care phone, intruder alarm und home control
- CARE optical sensor will be integrated into Everon wireless system



BME Biomedical Engineering Knowledge Centre

- BME investigates „Assistive Medical and Social Monitoring and Alarm Systems“.
- Develops algorithms for fall and behavior detection within CARE
- Interaction and interviews with elderly persons to increase acceptance of the system



YRJO (FI) und Weser GmbH (DE) 2 End-users

- Test facilities in homes in Germany and Finland
- Definition of end-user requirements for the CARE system
- System evaluation
- End user (Weser GmbH opens new homes in 2009/2010)

YRJÖ ja HANNA -SÄÄTIÖ



SensoCube (DE) market aspects

- SME seeking innovative solutions for health care
- Test and validation with practical system operation
- Dissemination and marketing in cooperation with Exrei

