

Knowledge-based technologies and demand-oriented services for seniors through individualized care concepts (WEITBLICK)

SPONSORED BY THE

Project Provider:

Ministry of Education and Research (BMBF)
Funding program "Technologies and Services for the Demographic Change"
Funding reference: 01FC08029



Federal Ministry
of Education
and Research

Project Manager: PT DLR



Projekträger im DLR

Project Partners:

- System analysis group of TU Ilmenau (em. Prof. Dr.-Ing. habil. J. Wernstedt, Prof. Dr.-Ing. habil. C. Ament)
- Communication networks group of TU Ilmenau (Prof. Dr.-Ing. habil. J. Seitz)
- Kirchhoff Datensysteme Service GmbH & Co KG
- AWO AJS gGmbH
- Falcom Wireless Communications GmbH

Duration: 2009-2012

Contact address: biomechatronik@tu-ilmenau.de

Project Description:

The goal of the joint project is the development of an assistance system based on individualized communication for the perception of age-appropriate services and care offers as well as the compensation of personal physical and psychological deficits.

The aim of the sub-project at the TU Ilmenau is to ensure that all the developed services and technical components are a well-fitting the needs of potential users (senior citizens) and providers (service providers) by means of a comprehensive requirements analysis and evaluation. This and the overall functionality will be demonstrated in scenario runs.

The following goals are to be achieved by the sub-project of the TU Ilmenau:

- Comprehensive requirements analysis regarding age-appropriate services as well as assistance-assisted access to them,
- Creation of knowledge-based data and inference structures from a cognitive point of view,
- Creation of strategies for the automatic mediation of data and communication streams through the implementation of different communication channels,
- Creation of methods for individual, demand-oriented service offers,
- Methods for self-determined movement inside and outside buildings, taking into account mental, cognitive and physical deficits,
- Implementing methods for intelligent monitoring of physiological data to monitor personal performance and health. Development of an emergency call system which is really accepted by the users,
- Development of specifications for the design of senior-friendly terminal devices in compliance with bionic and ergonomic criteria.