

FZI LIVING LABS: A NEW SERVICE IN RESEARCH TRANSFER

Living Labs present a new research paradigm placing technology transfer and the application environment in the limelight of interdisciplinary research and development. FZI Living Labs are a new FZI service that transforms ideas from research and development into marketable products. In the FZI Living Labs, project partners work together with FZI professors and scientists to design, discuss, evaluate and test concepts, tools, software and systems under real life conditions prior to market launch.

THE IDEA BEHIND OUR FZI LIVING LABS

Technology and knowledge transfer with a broad range of positive effects:

- Participative research by scientists, experts from industry and users
- Concentrated provision of interdisciplinary, scientific know-how
- Practical trials for engineering and IT applications before market launch
- Thorough tryout of innovative concepts for your products
- Offering feedback of market knowledge into research
- Triggering innovative impulses
- Encouraging exchange between technology and application
- Environment for open innovation



THE FZI HOUSE OF LIVING LABS

The FZI House of Living Labs incorporates all FZI Living Labs in one building and offers a modern infrastructure for development, evaluation and demonstration of trend-setting technologies. Researchers from FZI and partners from industry and society can exchange across fields of application and develop interdisciplinarily integrated solutions in information and communication technology. Profit from our FZI Living Labs as a platform for integration and technologies!

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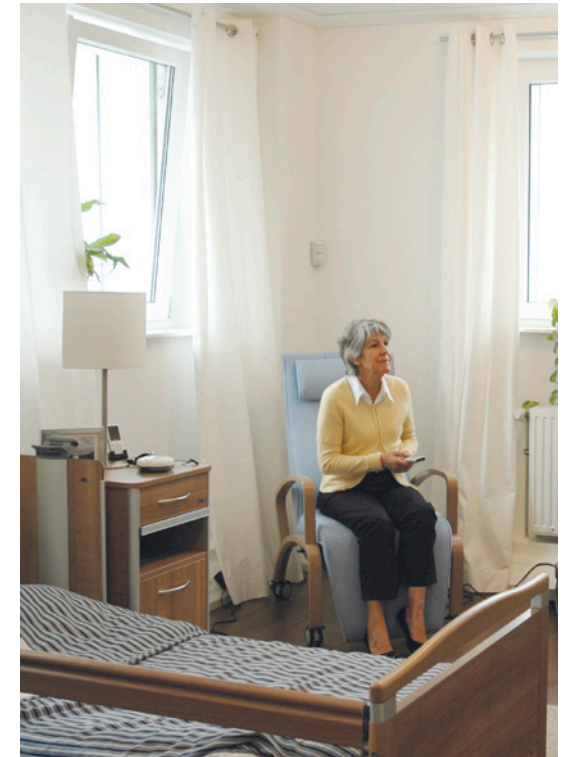
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FZI LIVING LAB smartHOME/AAL

Innovative Home Environments for a Secure and Comfortable Living



FZI LIVING LAB smartHOME/AAL

In the FZI Living Lab smartHome/AAL a research infrastructure has been created to develop and evaluate technologies and application scenarios for more comfort and security at home. Therefore intelligent building technologies and their integration into private living areas are in the focus of research and development activities.

Research topics at the FZI Living Lab smartHome/AAL are:

- Sensor technologies to detect emergency situations, for example the detection of a tumbling or motionless person
- Home automation, for instance turning off electrical devices when leaving the house
- Activity monitoring to analyze user behavior, for example identifying movement patterns and sleeping quality
- Cross-linking of technical systems from different manufacturers, e.g. the cross-linking of hobs and contact sensors affixed at the door with a mobile phone activating an alarm if a hob has not been switched off before leaving the house
- Energy management, for instance to register each alteration of current drain in order to find out which household appliances have caused it
- Flexible infrastructure systems and tools for craftsmen and technology providers, for instance to support the equipment and maintenance of intelligent housing
- Care and case management tools, e.g. for stroke aftercare, care consulting
- Telemedicine, for instance to enable the exchange of information between patient, care worker and physician via electronic patient records

EQUIPMENT

The FZI Living Lab smartHome/AAL is a research infrastructure set up as a two-room flat equipped with numerous sensors, actuators, gateways as well as household appliances from different manufacturers. In all rooms, appliances are installed which provide additional features for smart home and AAL services through data networking and remote control.

To connect the components smart metering technologies as well as wired and wireless bus systems (e.g. KNX, ZigBee, EnOcean etc.) are in use. In the FZI Living Lab smartHome/AAL prototypes and services can be discussed, developed and tested in direct end user interaction and under realistic application conditions.



COOPERATION OPPORTUNITIES

CONSULTING ON BUILDING (RE-)CONSTRUCTION

- Requirement analysis
- Service concepts und selection of technologies (on comfort, security and care)

SUPPORT OF STUDIES

- Support for the design, implementation, data collection and analysis of studies

DEVELOPMENT AND NETWORKING

- Implementation and extension of smart home and AAL technologies
- Tools for the planning, configuration and installation of smart home and AAL applications
- Support for service and product design of AAL and telemedicine technologies