

# Smart Home Platform

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## Usage Area E-Health / Assisted Living

### Motivation:

Provide AAL and e-health services for everybody and everywhere.

### Challenges:

Important usage areas as AAL and e-health have problems to get the required costs financed (for everybody who needs them).

AAL / e-health services are not only required at home but also when travelling.

### Approach:

**Multi-purpose smart home platform** allows to cross-finance these usage area by other usage areas that users might find more attractive (home entertainment, building maintenance, baby sitting, home protection, home energy management, ...).

**Smart phones that detect and use AAL equipment in hotel rooms etc. can help to allow people to travel.**



## Technical challenges:

- Smart home platform with standardized interfaces for sensing and actuating capabilities
- SW engineering for platform with heterogeneous sensing and actuating capabilities
- Sensor and actuator abstraction

## Experience (Kaiserslautern):

- Living lab with heterogeneous sensing and actuating capabilities
- Smart home platform and phone implementation
- Ambient Assisted Living “Living Lab”
- Houses (in use) equipped with Assisted Living infrastructure
- Close collaboration with a construction company building houses with ambient assisted living, e-grid and building maintenance infrastructure
- Development and integration of a European e-health infrastructure for a leading provider of cardiovascular disease treatments