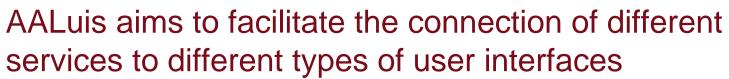




Deployment of AAL Solutions in real Homes for a Living Lab Evaluation: Challenges and Lessons Leant













AALuis User Interfaces

AAL Middleware Platforms (e.g. HOMER, universAAL, UMO, Persona, MPOWER)

> AALuis Services











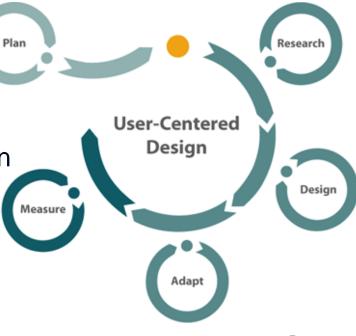
User Involvement within AALuis



- To assure to develop solutions that match the needs of target groups (end users, service providers, developers)
- User-Centered Design process:
 - Analysis of End User Requirements
 (Service needs | user wishes)

 Iterative design and formative evaluation (Usability Testing | Lab Trials)

Summative evaluation with field trials
 (Ad hoc Living Labs)



Characteristics of AALuis End Users



User Group 1 (UG1) – more oriented to lifestyle services User Group 2 (UG2) – persons in need of care services (Older olds)

Social

ICT Knowledge Physiological

Cognitive





Ad hoc Living Labs



Ad hoc Living Labs for Persons in need of Care



- Older olds' health status rather unstable
- Ad hoc Living Labs: Real-world setting | Restricted time frame (6 weeks)



Ad hoc Living Labs: Facts



- 23 clients of a big Austrian care provider (17 women, 6 men) aged between 71 and 99 years (M=84.7, SD=8.1)
- 3 care services:
 wellbeing inquiries | activation prompts | various reminders
- Detailed anamnesis and introduction
- Weekly diary with support of caregiver
- In-depth interviews

Lessons Learnt



Accurate technical planning and setup



- Precondition for all living lab studies is a properly working prototype
- Setup a real test environment
- Suitability of external conditions
- Stability of the integrated system and functionality of all components



World Press Photo Winner 2014

Thorough briefing of involved caregivers



- Caregivers have key role for successful Ad hoc Living Labs
- Motivation and commitment are driving factor for quality of collected data
- Involve or include relatives







- Getting to know each other
 - → First contact should be mediated by a known caregiver
- Same persons should visit participants all the time



Introducing technologies to older olds



- Demonstrate all features to participants and household members
- Intensive and repeatedly training
- Make sure that existing technology is not interfered (e.g. TV)



Data Collection



- Logging usage data
- Varying health conditions→ High risk of data loss
- Focus on qualitative data
- Foster open conversations



- UEQ adjectives were a good start for telling experiences
- Thorough documentation essential

Personalize Content



Thorough anamnesis (diseases and schedule)







Thank you!

Questions | Comments | Hints?

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