

vAssist Voice-based AAL Services

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vAssist aims at providing voice-controlled well-being and communication services for older adults based on simplified and adapted interface variants using multilingual natural voice interaction.

SERVICES

Communication

- » Audio/video call
- » Email, SMS/MMS

Personal support

- » Calendar, reminder
- » Well-being services
- » Monitoring features
- » Cognitive games
- » Internet access
- » Navigation

vAssist Well-being services

"I want to add a new sleep report"

SOLUTION APPROACH

Natural speech interaction:

- » Voice in- and output
- » Close to reality turn-by-turn interaction

Channel independence:

- » Usage of hardware already existing in the homes of older adults

FUTURE POTENTIAL

- » Older adults favor speech over traditional physical input modalities
- » Natural speech interaction leads to an increased engagement with assistive technology
- » Voice control improves the accessibility and technology acceptance of assistive services

REQUIREMENTS ANALYSIS

- » User-centered market-oriented design approach
- » Focus groups with Wizard of Oz simulations



Interaction

Potential of speech interaction

- » Positive attitude in target group
- » GUI when speech control fails

Interaction style

- » Friend-like interaction style
- » Pro-active help

Business

Package approach

- » Personalised packages
- » Personal support

Costs

- » Low, mid and high cost models
- » Cost transparency

Device

Mobile device

- » Touch interaction
- » Large smart phone or tablet
- » Portable and lightweight

Static device

- » TV set or PC/Laptop

Service

Mandatory services

- » Audio and text communication
- » Well-being management

Additional services

- » Online information search
- » Emergency functionalities



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