



Lessons learned in the Netherlands





Smart Homes

Expert Centre on House Automation and Smart Living

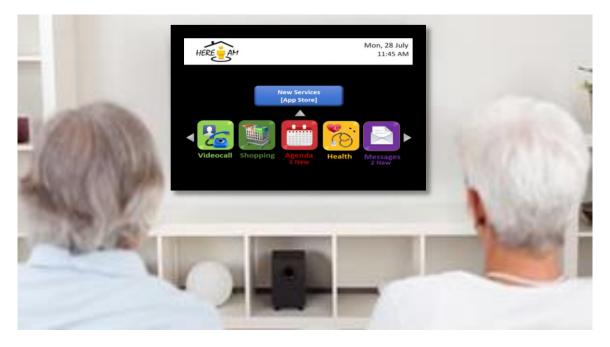
- Founded in 1993
- Eindhoven, the Netherlands

Objectives

- Stimulating smart, understandable and accessible solutions
- Gathering knowledge on home automation and smart living
- Disseminating this knowledge to consumers and professionals
- Bridging the gap between technology providers and end-users
- Bringing together supply and demand







Interoperable TV-platform for self-care, social networking and managing daily activities for older adults at home

AAL: July 2013 – June 2016





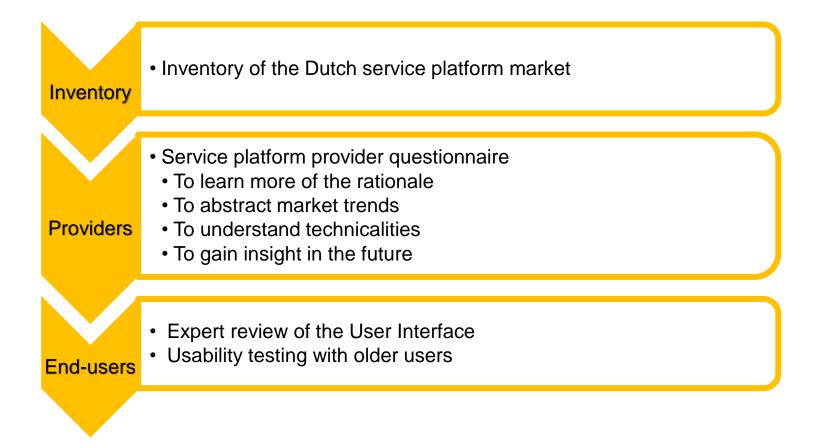
Pioneering...

The Netherlands

- Many innovative projects in the field of eHealth and AAL
- Pioneer role in developping and using service platforms











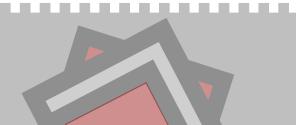
Service platform provider questionnaire

- 5 filled-out questionnaires
- In-depth analysis

• Findings:

- Service platform is ideal solution for clients with no ICT skills at all
- System is simple, interface is user-friendly
- Education or training are unnecessary



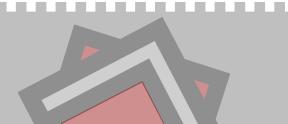




• Trends:

- Involve the (social) network around the client
- Offer a wide range of services
- Enhance interoperability
- Make your platform accessible on each device
- Take into account age-related changes and individual situations
- Allocate tasks to formal carers, informal carers and volunteers







- 4 existing service platforms
- Expert Review of the UI
 - Design Heuristics (Nielsen)
- Usability testing
 - 26 older adults (13x NL and 13x BE)
 - Smartest House of the Netherlands











Study Protocol:

- General user profiling questionnaire
- Participant observation and comments
- IBM usability questionnaire
- Focus group on general impression, added value, preferred technology, and desirable services and features.

• Findings:

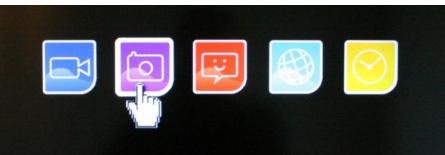
- Participants were enthusiastic about the functionality of the systems and about the added value a service platform could offer them.
- For some people, it was rather difficult to use the systems, but the

majority of participant did manage quite well.















- Icon 1:
 - Video camera: movies
 - Webcam: video calls
 - Speaker: music
 - Medicine bottle
 - Projector





- Icon 2
 - Photo
 - Radio
 - TV-screen
 - Grocery shopping
 - Brief case













Back- button





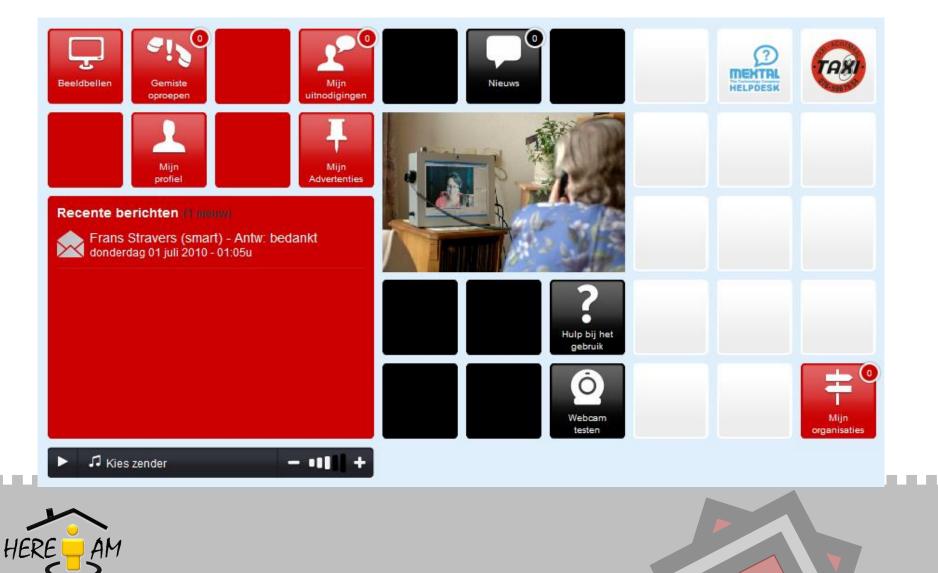














Outcomes

Focus Groups:

- Majority enthusiastic, surprised about their abilities
- Variation reported about the user-friendliness of the different platforms
- Stigmatizing combine with enjoyable and attractive services
- Flexibility in quantity and complexity
- Wide variety of services

Stakeholders:

- Older users, organizations, communities and entrepreneurs see added value in this new medium.
- Healthcare professionals are a bit reluctant. For them the available data and functionality seem to be insufficient.







Conclusions

The study provided an overview of the strengths and weaknesses of the service platform market.

- Technology providers and older adults tend to move closer to each other, leading to an increase in user-friendly products.
- Alignment of secondary and tertiary stakeholders is crucial for future valorisation. (e.g. health care professionals)
- Easy to have everything in one place, but the question is whether older users are able to handle the quantity and complexity.
- The platform, (third party) components and (external) services needs to be consistent, in terms of design and interaction.
- Continuous alertness and fine-tuning are crucial to bring AAL to a success





Thank you for your attention!

Smart Homes

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HEREIAM

www.hereiamproject.org

