

Ambient Assisted Living: Use Case For FI PPP

One way to build them all,
One way to bind them;
One Store to save them all,
And help the users find them

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Q1a: Use Case/Scenario: Ambient Assisted Living

- **Ambient Assisted Living (AAL):** methods, systems, devices providing unobtrusive services to support daily life for assisted persons in their own homes.
- PPP opportunities: “making your life easier” + “supporting your lifestyle”



Monitoring sleep,
health, daily activities



Emergency:
fall detection



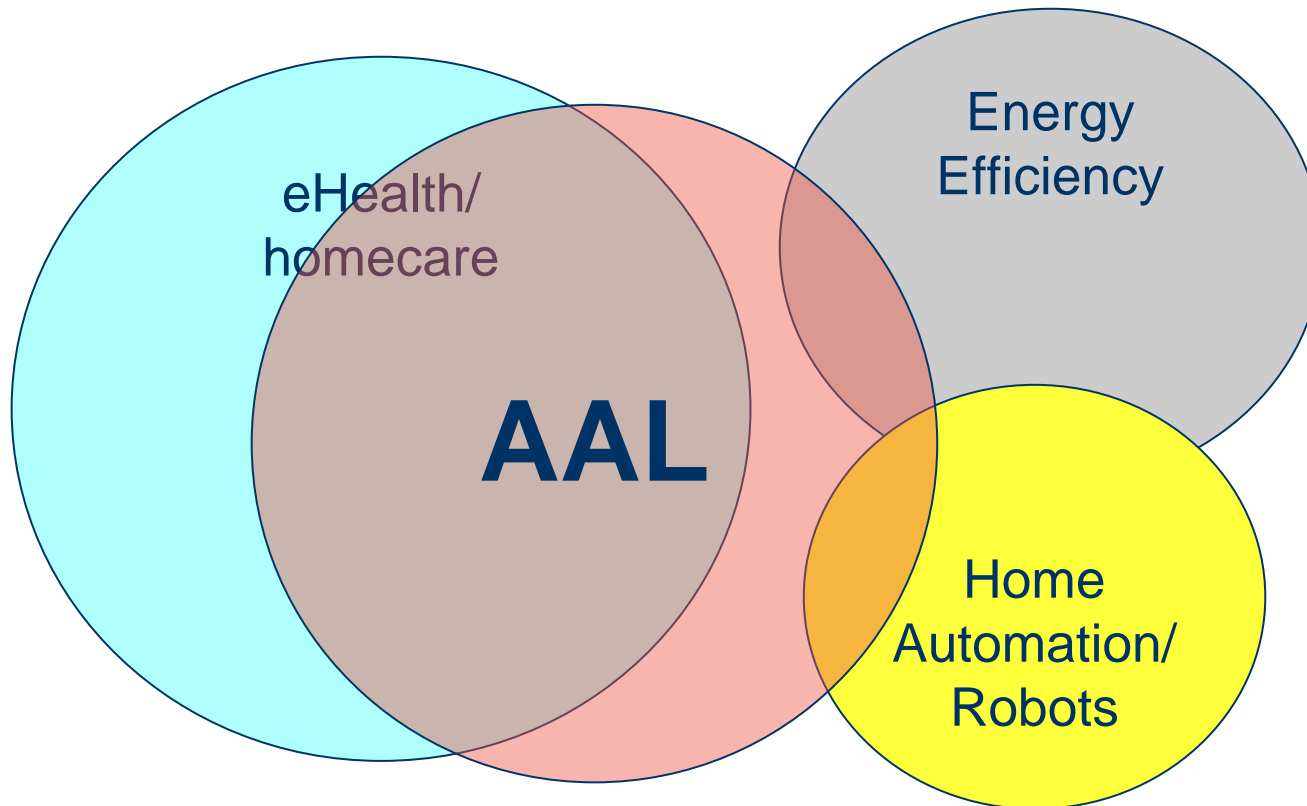
Sport and Social Interaction

Who?

- Assisted persons (elderly etc.)
- Family members
- Professional care givers (local authorities, medical staff)
- Service provider organisations
- Software Developers
- Device Manufactures

Q1b: AAL: integrated part of the home

- Involves multiple devices, people and services at different locations which must be easy to compose in a flexible way
- Unobtrusiveness, ease of use, ease of installation and configuration are all essentials
- Must be *part of the home*, not “special aids”

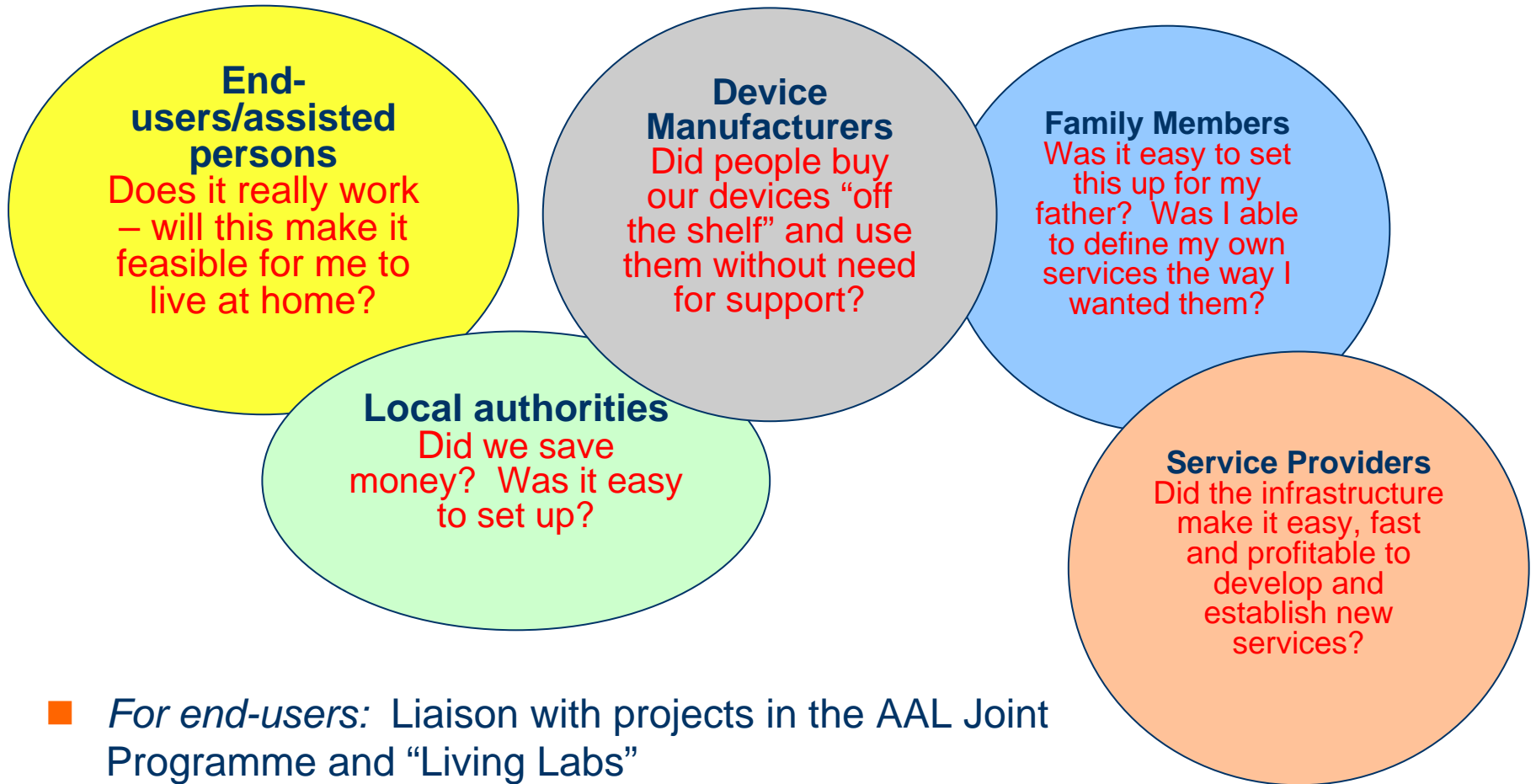


Q2+Q3: Functionality + Technologies

Core platform?

- Open Reference architecture for AAL application and services No
- Context acquisition and synthesis (devices + services) Yes
- Trust:
 - Security and privacy of data (infrastructure) Yes
 - Open Trusted Platforms (for development) Yes
 - Certification of trusted applications; trusted “store” to buy them Yes
- Full “plug and play” for devices: interoperable, immediate install and configure Partial
- End-user definition of services by composing others Yes
- Standardized but adaptable user interfaces Yes
- Tracking:
 - Technologies/devices for local and wider area tracking No
 - Unified approach/software interface, with built-in privacy control Yes
- “Always connected” Yes

Q4: Experimentation Environment: Community of stakeholders



- *For end-users:* Liaison with projects in the AAL Joint Programme and “Living Labs”
- *For service providers/developers:* Use competitions to promote active, motivated involvement

Q5: Role of SINTEF



<http://www.universaal.org>

Gateway

to

ROLE

- 17 partners (incl. IBM + Philips), 13M€ IP

Project (Area 7.1, AAL)

Feb 2010 – Jan 2014

Mandate: consolidate results of earlier software projects on AAL

Open source approach: establish community, open development

Will provide “universaal” as a platform for development of AAL services: architecture, middleware, device adaptation, context handling

Use to develop and experiment with innovative services

“uStore”: as easy as Apple’s App Store but for multiple execution platforms

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- Provide requirements to core platform
- Validate core platform for AAL
- Design and carry out trials
- Ensure trials adhere to emerging de facto standards (from universAAL + Continua health alliance, OMG, health standards etc.)
- Establish contact with end users, through “living labs” and user groups involved in trials in universAAL (and earlier projects)

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