

# universAAL – UNIVERsal open platform and reference Specification for Ambient Assisted Living

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# uAAL Background – technical barriers to widespread deployment

## AALIANCE AAL Roadmap states:

From a more technological point of view, organizations that develop devices and services suffer in their work from a lack of standards and references for designing the systems. These include:

- domain models that are concepts, functions and qualities for AAL systems to make explicit the demands and contributions;
- open-reference architecture that facilitates the efficient integration of diverse assistance devices and services into personalized, trusted and manageable assistance solutions;
- standardized solutions for the unobtrusive, affordable sensing of context (location, activity, vital data);
- advanced user-interfaces that can be adapted to the changing needs of users;
- guidelines for privacy and security of data management;
- system management and interoperability of heterogeneous components.

# universAAL Main Objective – remove those barriers

To make it technically possible and economically feasible to design and deploy innovative AAL services

Providing an **open platform** that facilitates the development and deployment of AAL services

## Strength through inclusive approach:

1. Consolidate & extend free & open results of successful projects
2. Provide free & open results
3. Ensure sustainability by initiating support activities (e.g. open source community) early in the project

\* **Duration: 48 months**

\* **Start: February 2010**

\* **Budget: 13.9 M€**

\* **EU Funding: 10.5 M€**

# Supporting an holistic view on the AAL eco system

## Developers Depot

*Free resources and code samples  
to develop innovative AAL Services*



## uStore

*A global marketplace for vendors  
and a one-stop-shop for buyers  
of AAL services*



## AAL Showroom

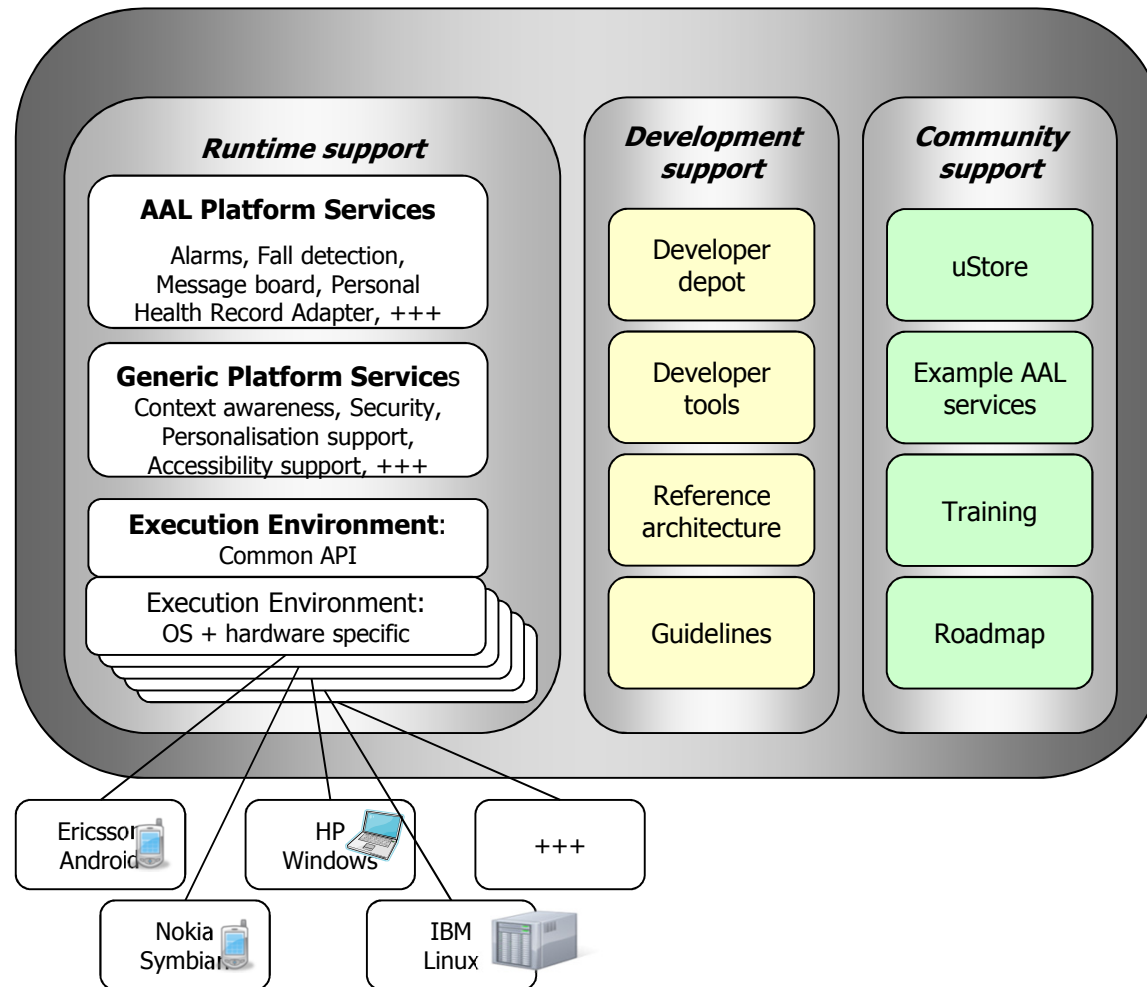
*Discover what our platform  
can do for you and your business*



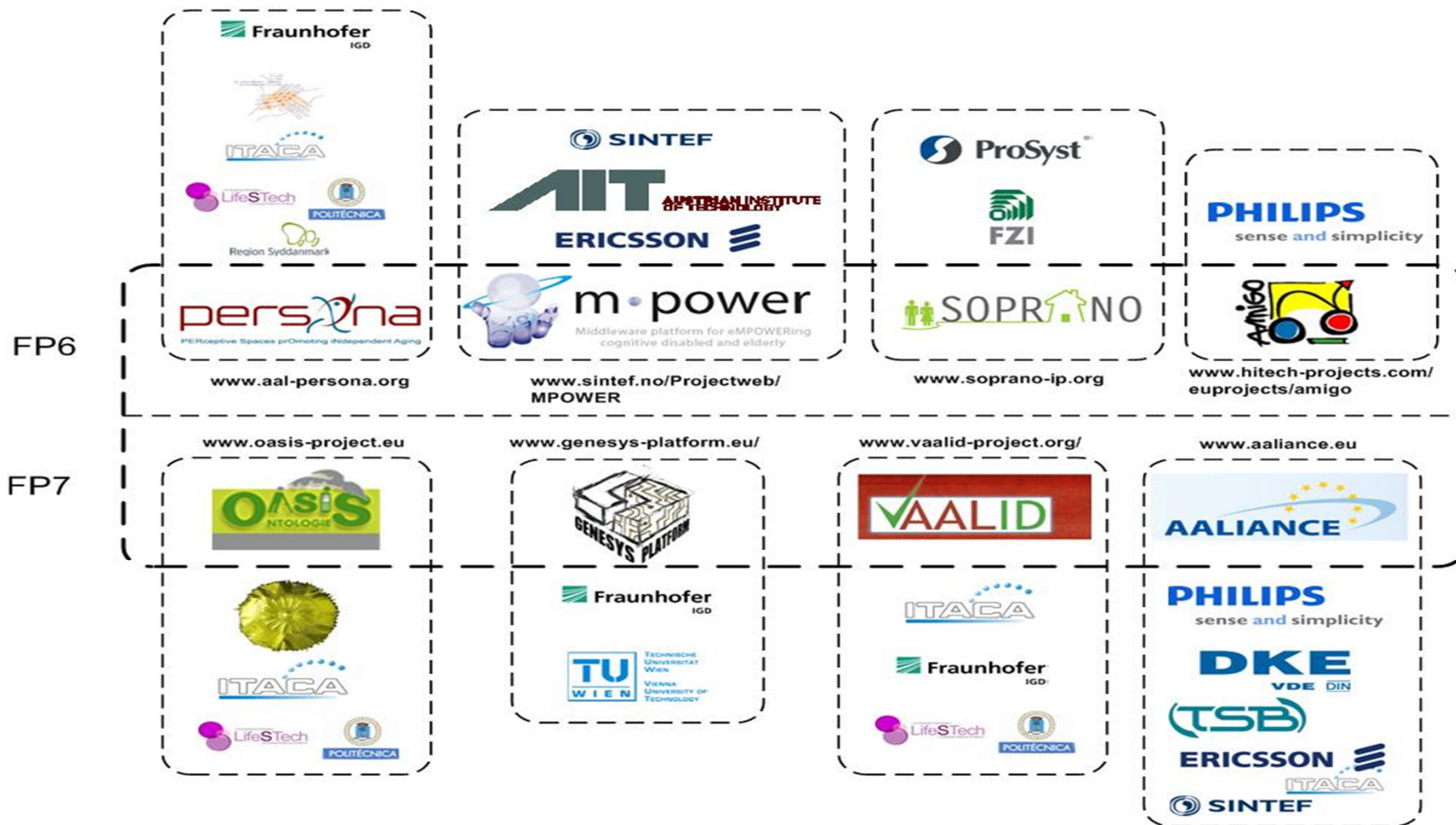
*One way to build them all,  
One way to bind them,  
One store to save them all,  
And help the users find them*



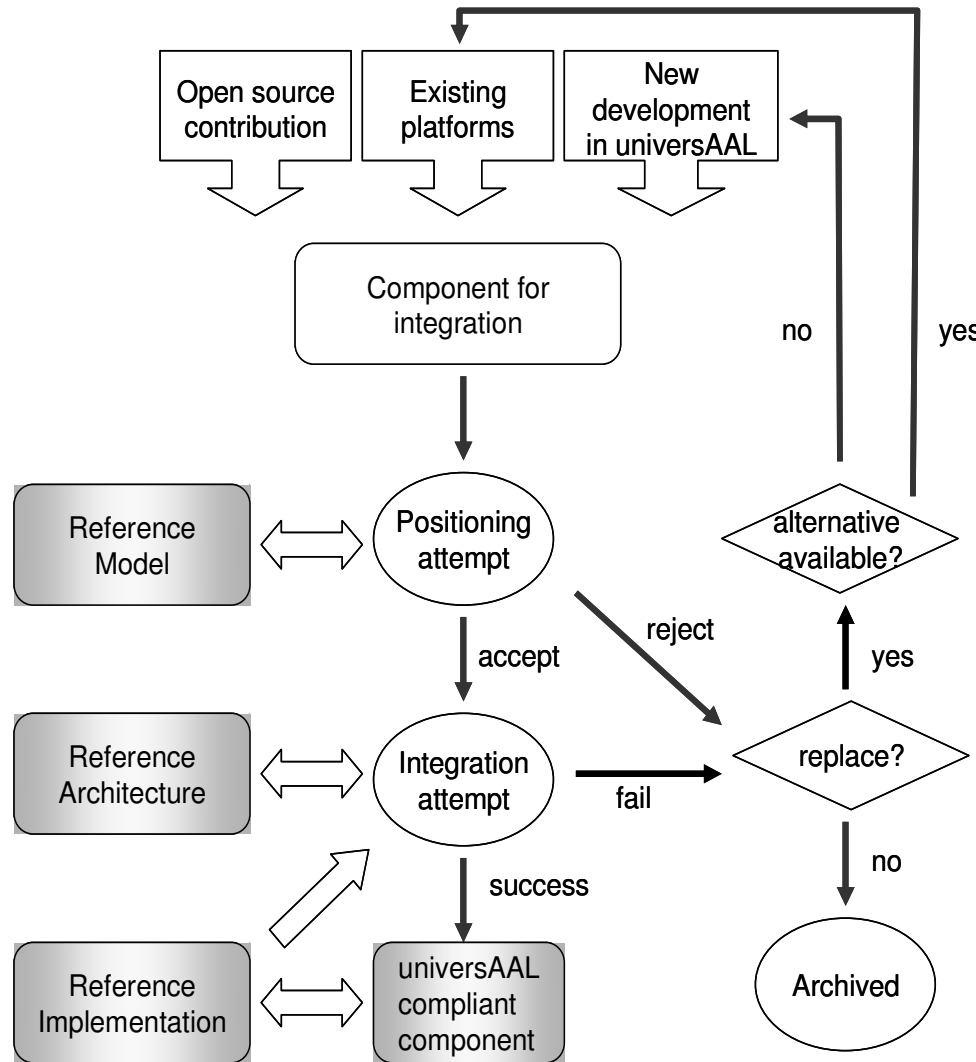
# Taking a broad perspective on platform



# Consolidating existing open results



# uAAL Open consolidation approach



# *uAAL – initiate and support open projects through AALOA*



*EvAAL*



universAAL will:

- Make all results available free&open (under Apache 2.0 license)
- Initiate AALOA projects necessary to ensure sustainability of the results
- 1<sup>st</sup> releases in August 2011 – continuous releases in next two years
- Step 1: Open the development process to project externals
- Step 2: Open the management process to project externals





# *uAAL – Three levels of cooperation (1/3)*

L1: Co-operation with universAAL through AALOA would consist of:

- Becoming a member of AALOA.
- Taking part in discussions within AALOA relating to a research agenda for AAL, and agreeing to take on responsibility for some of the activities within AALOA.
- In so far as the activities agreed upon relate to work done in universAAL, provide input to universAAL (e.g. in form of requirements or suggestions), make experimental use of universAAL intermediate results and provide feedback, or even harmonise technology with universAAL development models. The exact nature of the cooperation would very much depend on the activities undertaken.
- Examples: openAAL, VAALide, OSAMI etc.

# *uAAL – Three levels of cooperation (2/3)*

## **L2: Co-operation via a mutual co-operation agreement between universAAL and your project / organisation**

- This level is more suitable if a more detailed form of cooperation, with commitment on the part of both parties, is desirable. It would consist of:
- Both parties carry out work on topics of mutual interest, and exchange results with each other at agreed milestones, according to a plan of work on specific topics, including a list of activities, a time schedule and specific deliveries from both parties.
- The agreed activities benefit universAAL by extending the scope of the work already planned in the project, and/or providing assessment and feedback on intermediate results.
- The agreed activities benefit the cooperating party by making universAAL results available to them (together with direct access to expertise on their design/use), or in some other way supporting their aims.
- Both parties provide information describing IPR issues related to the cooperation (specifying who has what rights to what results under what conditions).
- Measures to ensure smooth and effective cooperation, such as mutual participation in each other's project meetings; cooperation on conference participation and publications etc.
- The key to making this work well in practice would be to make sure that the agreed activities really are of genuine mutual benefit, and to make the process "lightweight" (i.e. the plans etc. described above should be short and simple: it is not a project proposal we need here).
- Currently working with two organisations under this model.

# *uAAL – Three levels of cooperation (3/3)*

## **Level 3: Co-operation as a formal partner of universAAL**

- This level is the most integrated form of cooperation, and would consist of:
- Participation in the universAAL project as a full partner, with tasks and activities assigned according to the DoW, and with rights and responsibilities as for all other project participants.
- The assigned tasks would *either* be in accordance with the existing DoW (with your project/organisation being assigned responsibility for parts of the work) *or* be new tasks, agreed in advance with the commission, and included in a revised DoW.
- Currently working with one new partner under this model.

## *uAAL open days*

- **The universAAL project arrange an open day together with each plenary**
- **Intention is to meet with parties interested in cooperation**
- **Next meeting is in Zagreb in September**





## *uAAL – coordination with other alliances/SDO´s/Projects*



- Reuse state of the art
- Ensure complementarity of universAAL results



# Supporting the AAL eco system

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# Get involved!

- Apply the universAAL results and give us feedback for improvements
- Get involved in the upcoming uAAL open source projects on AALOA



# Thank You

[www.universAAL.org](http://www.universAAL.org)

[www.AALOA.org](http://www.AALOA.org)

[marius.mikalsen@sintef.no](mailto:marius.mikalsen@sintef.no)



Workshop on "Support for companies developing Ambient  
Assisted Living solutions to achieve the market breakthrough"

Brussels, June 7th