



Welcome to AALIANCE2!

AALIANCE2 Roadmap: short overview

One of the main objectives of AALIANCE2 is the identification of the research priorities in AAL and the development of the AAL Roadmap and Strategic Research Agenda for the upcoming decades.

The Work Package 2 is devoted to study and investigate the technological innovations needed in the next years for the real deployment and exploitation of AAL services in the society.

A preliminary version of the AALIANCE2 Roadmap has been developed considering several aspects, and in particular:

- ❖ the previous version of AALIANCE Roadmap
- ❖ the results of the EIP AHA
- ❖ the outcomes of the two stakeholder workshops involving several social and technological experts of AAL field organized for the topics:
 - "Technologies for AAL solutions: AAL application domains" (Pontedera, IT, 14/02/2012)
 - "Enabling Technologies for AAL solutions" (AAL Forum 2012, Eindhoven, NL, 27/09/2012).

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Pictures of the 1st AALIANCE2 Stakeholder Workshop (Pontedera, IT – 14/02/2012)



Pictures of the 2nd AALIANCE2 Stakeholder Workshop (Eindhoven, NL – 27/09/2012)

Join us on:



The **AALIANCE2**
Consortium





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The current version of AALIANCE2 Roadmap is based on three pillars, that are macro-areas of AAL services that could favour the social inclusion of elderly persons and their healthy and active ageing in society life.

These pillars are:

- ❖ *Prevention*
- ❖ *Compensation and Support*
- ❖ *Independent and Active Ageing*



Some possible service scenarios associated to these pillars are reported.

Starting from these scenarios, some technological components and innovations necessary for the development of these services are proposed. These enabling technologies are assembled in five big groups:

- *Sensing*
- *Acting*
- *Interacting*
- *Communicating*
- *Reasoning*

This preliminary version of the AALIANCE2 Roadmap will be updated and refined in the next months.

For more information about the AALIANCE2 Roadmap, visit the website www.aaliance.eu or contact Dr. Filippo Cavallo (f.cavallo@sssup.it).

AALIANCE2 Roadmap and SRA: Call for AAL Experts

The European Commission expects by AALIANCE2 Consortium the definition of research priorities in AAL, information that should contribute to the planning of the next European research priorities.

The AALIANCE2 Consortium is looking for experts and stakeholders of AAL services and technologies supporting the WP2 team in the refinement and improvements of the AALIANCE2 Roadmap and Strategic Research Agenda.

Are you interested to **join the AALIANCE2 team?**

Please, contact Filippo Cavallo (f.cavallo@sssup.it).



Standardisation and certification recommendations from 3rd stakeholder workshop on AAL

On February 12th 2013, the AALIANCE2 workshop on standards and certifications in AAL took place in Frankfurt/Main, Germany, with 28 experts attending. In ten discussion groups on enabling technologies and cross-cutting topics the standards landscape and future development were discussed, the basis was the online repository of standards set up by the AALIANCE2 consortium. Apart from comments on missing standards and incomplete descriptions in the repository, central outcomes are:

- ❖ *Extending standards to AAL:* Some standards like EN 50134 (Social alarm systems), IEC 80001 (Application of risk management for IT networks incorporating medical devices) and the ISO/IEEE 11073 family of standards (medical/health communication) should be extended to an AAL context.
- ❖ *New standards needed:* Some fields were identified having no appropriate standards yet like indoor localization, privacy policies in residential gateways and AAL ontology that can be used in the reasoning components of AAL devices.
- ❖ *Standard high-level architecture:* this includes describing use-cases, interfaces, and system components leading to standardized reference architecture for AAL middleware (including APIs).



Pictures of the 3rd AALIANCE2 workshop (Frankfurt/Main, DE) – 12/02/2013

- ❖ *International standardization:* In general, standardization for the AAL sector should take place on European or international level, not on a national level.
- ❖ *Better integration of research communities:* Many activities relevant to AAL happen in other research areas (Smart Metering, Internet of Things). Interaction between these areas and AAL should be enforced.
- ❖ *Better access to and better knowledge about standards and standardization:* Access to standards and participation in standardisation activities is quite often very expensive and unaffordable by research projects. Access and participation at

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reduced rates are recommended as well as an implementation of a separate AAL category in the ICS (International Classification of Standards).

- ❖ *Integration profiles*: The development of use-case based integration profiles (similar to IHE, Continua and others) and appropriate organisational structures was recommended to accelerate interoperability and include industry, research and users.
- ❖ *Quality labelling and certification*: Quality labelling programmes for AAL systems should be established on European or international level to increase the market acceptance and visibility of AAL products and services.
- ❖ *Large scale pilots* will be needed to assess the maturity of the various middleware solutions and runtime environments for AAL systems such as universAAL, Persona, Embassi etc. The "REAAL" project, which aims at equipping 7,000 apartments in Europe with universAAL-based technology, is certainly a good example.
- ❖ *Reconfigurable user interfaces* are recommended to satisfy the specific needs of different groups of users (e. g. with reduced eye-sight, hearing or fine motor skills). Already existing standards on user interfaces and accessibility should be considered.

Short News on Repository of Standards

The AALIANCE2 Repository of Standards, which is a reference database of all standards and publicly available specifications that are of relevance for the AAL sector, is now available online at <http://nero.offis.de/projects/aaliance2/start>. Access to the repository content requires a free registration by mail to aaliance2@offis.de.

The world of standards is changing continuously. The online repository is intended as a resource for AAL developers and researchers and should provide guidance in this ever-changing world of standards. Therefore, AALIANCE2 would like to establish a community that keeps the repository "alive" and up-to-date. **Volunteers who would be able and willing to contribute, e.g. by "adopting" responsibility for keeping the information about one standard or one topic up-to-date, are absolutely welcome.** Please contact us by mail to aaliance2@offis.de and volunteers will receive an editor account.



AAL events

11/06/2013 Frankfurt (DE) AALIANCE2 - 4th Stakeholder Workshop on "Reference Designs for Integrated Applications"



This fourth workshop will focus on reference architectures and AAL middleware.

The workshop will try to summarize the state of the art in AAL middleware and discuss whether a standardization of an AAL "reference architecture" is needed, and on which levels (e. g. reference model, system architecture, APIs, terminology/ontology).

Representatives of the most important middleware projects and products are invited. More information is available [here](#).

26-28/06/2013 Tallinn (EST) 10th International Conference on Wearable Micro and NanoTechnologies for Personalized Health



The pHealth conference has emerged as the leading international meeting on wearable micro and nano technologies for personalized medicine. Starting in 2004, pHealth has attracted scientists for various technologies, medical doctors, policy makers from the healthcare industry, hospital administration and allied professionals. Collecting a dynamic professional community from Europe and all over the world pHealth has given visibility to the tremendous potential of micro and nano technologies not only for the future of medicine, but also for the improvement of healthcare processes today. More information is available [here](#).

1-3/07/2013 London (UK) 3rd Annual International Congress on Telehealth and Telecare



Now in its 3rd year, the purpose of the International Congress on Telehealth and Telecare is to bring together researchers, policy makers, practitioners and innovators interested in the design and application of technologies to share experiences and to showcase new ideas, new research and new innovations that will support improvements in care of people with long-term conditions and other health social care needs. More information is available [here](#).

05/07/2013 Osaka (JP) AALIANCE2 - 5th Stakeholder Workshop on "Strategic Research Agenda for ICT technology for Active and Healthy Ageing in Europe and Japan"



This fifth AALIANCE2 Stakeholder Workshop will focus on the SRA, developed during the first period of the Project, in particular paying attention to the future developments of technologies. Aim of this workshop is to refine and approve the contents of the SRA and discuss about prioritization of the enabling technologies. More information is available [here](#).

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26-28/08/2013 Helsinki (FI) **Work, Wellbeing and Wealth: Active Ageing at Work**



The International Conference on "Work, Wellbeing and Wealth: Active Ageing at Work", organized by the Finnish Institute of Occupational Health and the JPI "More Years, Better Lives", aims to bring together researchers, experts and European networks in the area and to present and discuss the major R&D needs and solutions on the themes: 1) Sustainable work and health; 2) Productivity and innovations; 3) Management and work organization; 4) Policy issues. More information is available [here](#).

24-26/09/2013 Norrköping (Sweden) **AAL Forum 2013**



The event of this year is entitled "Impacting individuals, society and economic growth". The discussion in the sessions and in the plenaries will address two important questions:

- How can we support an increased independence for older adults and benefit for the society as a whole?
- What are the business models that stimulate large scale use of AAL solutions and how may they boost economic growth?

More information is available [here](#).



AAL Best Practices: MyDoctor@Home telemonitoring system

Experimentation of a telemonitoring system for the elderly

The telecare experimentation started in Turin, Italy from November 2008 and employed the Telecom Italia platform **MyDoctor@Home**. This is an e-health service that enables the patient to measure at home his own physiological parameters with portable and Bluetooth medical devices and to transmit them in real time, through a mobile phone, to a platform accessed by the healthcare structure.

This service targets patients suffering from chronically diseases and allows a daily monitoring of their vital parameters, permitting a constant evaluation through a remote check and also a frequent interaction between patients and clinicians about their medical prescriptions (taking medicines and doing the daily checks).

The doctors are remotely and automatically warned if unusual states occur and can timely operate interacting with the patient itself.

Based on the findings presented in the paper "[Telemedicine for the elderly: a feasibility study](#)", it appears that telecare, employed for elderly patients with several pathologies, can be an effective mean to improve the quality of assistance and the mood of the patients, easing the burden of the caregivers.

The paper refers to a telemonitoring period of 854 days, during which 37 patients did more than 1100 checks with and without the presence of a doctor.

For more information, contact by mail: Laura Contin (laura.contin@telecomitalia.it)



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News from the AAL world

Long Lasting Memories project delivers ICT platform that helps fight age-related cognitive decline

Long Lasting Memories (LLM) is an EU project that has implemented an integrated ICT platform which combines state-of-the-art cognitive exercises with physical activity in the framework of an advanced ambient assisted living environment, while respecting ethical and legal boundaries. By combining cognitive exercises and physical activity LLM delivers an effective countermeasure against age-related cognitive decline, as well as and cognitive impairment seen in the early stages of degenerative brain diseases, thus actively improving the quality of life of the elderly and significantly prolonging the time they can remain independent at home. [»»](#)

Neelie Kroes speech at eHealth week 2013: Innovation isn't just for the young

When people think of ICT innovation, they too often think of young people.

But new technology isn't just about the younger generation. And innovation isn't just for the young: it's for everyone. It can serve the most vulnerable in our society. It can help older people lead happier, healthier lives. And it can help in our shift to an age-friendly society. It can, and it should.

Take healthcare. Our health institutions were built in a different age; to deal with acute conditions, short-term problems, hospital stays. An older population faces a different challenge: conditions are often chronic, degenerative, and multiple. That calls for a different kind of treatment. One that does not rob people of dignity and independence, but lets them stay active and healthy as they age. [»»](#)

User involvement in research: feedbacks from the Dreaming project

The DREAMING project (2008-2012) carried out randomised control trials across six pilot sites to assess the impact of telemonitoring on the health and quality of life of older people with chronic conditions. The main feedbacks were on acceptance and usability (importance of involving users) ; technical issues (involvement of technicians, problems of batteries); workforce and service organisation (cooperation between health and social professionals, between professionals and families) ; aspects of sustainability and wide deployment (difficulties to scale up, training needs); business case analysis (what should be in); need for further research and analysis (mental health issues, question of drop outs, involvement of relatives); ethics and dissemination of project outcomes. [»»](#)



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AALIANCE2 Network: Take part in AAL Future!

AALIANCE2 Consortium is creating the AALIANCE2 Network, the network of AAL stakeholders will work to develop, exploit and deploy AAL services and technologies in order to improve wellbeing, quality of life and independence of European and elderly persons.

AALIANCE2 global Network will provide the opportunity to:

- connect stakeholders coming from different areas and countries;
- be informed and updated about events and opportunities related to AAL sectors;
- participate in workshops and studies dealing with critical issues for the diffusion of AAL services in real society and promoting innovative and effective solutions to the European Commission and AAL Community;
- delineate the future of AAL in Europe.

AALIANCE2 will work to make the AALIANCE2 Network a stable and self-sustainable network beyond the end of the project.

To take part in AAL future please join the AALIANCE2 Network!

For more information visit our website www.aaliance.eu and contact us.

Join the AALIANCE2 Network!

More information

For more information please visit the project website:

www.aaliance.eu

or contact the Project Coordinator, **Prof. Paolo Dario**, and the Project Manager, **Dr. Filippo Cavallo**, at SSSA:

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