AAL Joint Programme Brochure

Autumn 2010 - preliminary version

Overview of Funded and Running Projects Call 1 (2009) and Call 2 (2010)

AAL

AMBIENT ASSISTED LIVING

A few words from the president

Diversity is a common characteristic of nowadays older people. Diversity and possibilities of individuality in function and use should also be the characteristics of supportive technology for older people.

This brochure presents some of the ongoing, funded projects in the Ambient Assisted Living Joint Programme (AAL JP) sampled from the first two calls for proposals. The programme is the main activity of the Ambient Assisted Living Association. I think this brochure is documenting that diverse and innovative solutions for Ambient Assisted Living in all aspects of life for older people are beginning to emerge. I hope the material will inspire people in- and outside the program and provide the basis for new and enforced old contacts between all stakeholders in AAL

We hope to publish such a brochure with a compilation of the AAL JP project portfolio once a year.

Lena Gustafsson
President of the Ambient Assisted Living Association

For further information please contact:

The Central Management Unit (CMU)
Ambient Assisted Living Joint Programme
Rue de Luxembourg 3, 2nd floor
B-1000 Brussels
Belgium

Phone +32 (0)2 219 92 25

Team-email: CMU@aal-europe.eu
Website: www.aal-europe.eu

The AAL Joint Programme

The burden of future care for older European citizens is described as a major time aggravated thread to the European societies. One of the countermeasures is the Ambient Assisted Living Joint programme (AAL-JP), that aim on a widespread, direct, and pervasive societal impact on end-user level and on European competiveness in innovation and use of technology for "living well" as an older person.

This brochure present some of the running projects in call 1 and call 2 of the programme.

The AAL JP is based on article 185 (former 169) in the European Treaty, that describes the framework for multi-annual innovation programmes – implemented as a joint activity between the European Community and the Member States that will participate in the particular programme. Also countries outside the European Member States can join – in the AAL JP Israel, Norway, and Switzerland – as an associated member - participates.

It is envisioned that the total funding available from in the AAL JP programme life-cycle will be more than 500 M€. The funding scheme means in practice so far that investment from each national funding agency in the AAL JP is returned to the same agency's beneficiaries with an approximately 40% "European bonus" from central funding. The programme provides international evaluation and reviews of the projects.

The three calls issued so far have been thematic. First call (2008) had the title: "ICT based solutions for Prevention and Management of Chronic Conditions of Elderly People"; second call (2009) had the title: "ICT based solutions for Advancement of Social Interaction of Elderly People". Some projects from these two calls are described in this brochure. The 2010 call (third call) had the title: "ICT-based Solutions for Advancement of Older Persons' Independence and Participation in the "Self-Serve Society" and has as of August 2010 entered the evaluation and funding decision procedure. Some of the call 3 projects may be described in next year's brochure on AAL Joint Programme running projects.

The Ambient Assisted Joint Programme is an activity of the

Ambient Assisted Living Association
Rue de Luxembourg 3
B-1000 Brussels
Belgium
VAT 094588636

Content

AAL Joint Programme Brochure (autumn 2010 (preliminary version))
Overview of Funded and Running Call 1 (2009) and Call 2 (2010) Projects

Disclaimer
The information in this brochure is provided mostly by the projects and is to the best of our knowledge correct, but e.g. figures of funding may be subject to (minor) variations due to the involved agencies procedures and exchange rates.

The editing is concluded at September 1st 2010.

Ambient Assisted Joint Programme Central Management Unit.
Team-email: CMU@aal-europe.eu

AAL-Joint Programme Call 1 Projects

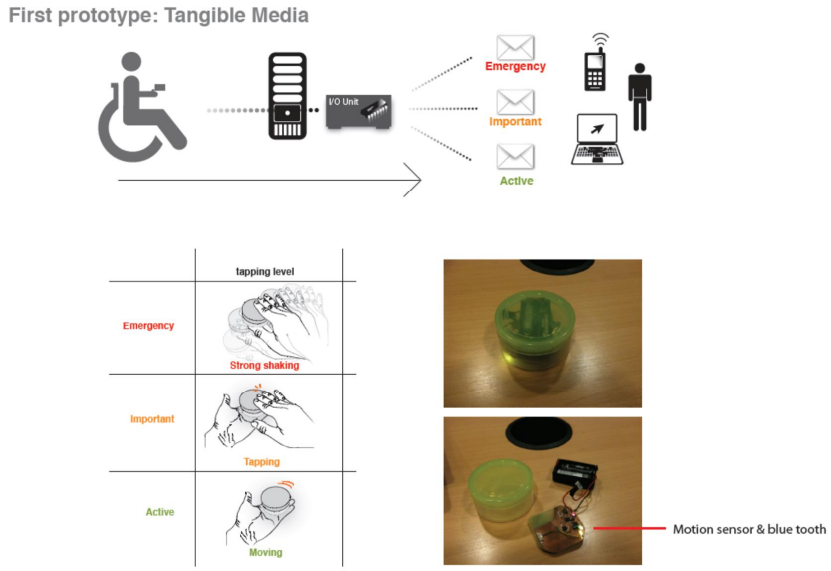
Agnes: User-sensitive Home-based Systems for Successful Ageing in a Networked Society

Project acronym & n°	AGNES	ALL-2008-1-014
Duration & start date	36 months	1.09.2009
Budget	Total €3,578,924	Granted €2,020,476
Contact	John Waterworth	jwworth@informatik.umu.se
Project website	http://agnes-aal.eu	

Project overview

AGNES provides a user-sensitive home environment to support person-centric care and social interaction. By detecting subjective states and activities of the elderly person, better-tailored and more-timely responses can be provided. By exploiting the power of a dedicated social network, feelings of loneliness and insecurity are reduced and social and cognitive activities encouraged. In addition, the AGNES platform provides an information and communication channel to the elderly person, supplying news, updates on activities of close persons, reminders of birthdays and things to do, etc.

AGNES began in September 2009 and is a 3 year project that brings together 12 partners and sub-contractors in six European countries: two small enterprises, three research institutions, three universities, a consumer electronics company, and end-user organizations in Greece, Spain and Sweden. AGNES is developing systems and devices that can be turned into commercial products within two years of project completion in 2012, using a highly modular technical strategy.



Status

New ambient displays and tangible interaction devices have already been designed and prototyped. When deployed in homes, these will provide the potential for completely novel forms of interaction between the network and the elderly person.

Experimental and control group volunteer participants have been selected in Greece, Spain and Sweden. Detailed interviewing and baseline assessments are completed and user scenarios developed. Facial images of happy, sad and neutral elderly have been collected and used as input to tune the image-based mood recognition system prior to deployment of the first experimental prototype scheduled for late 2010.

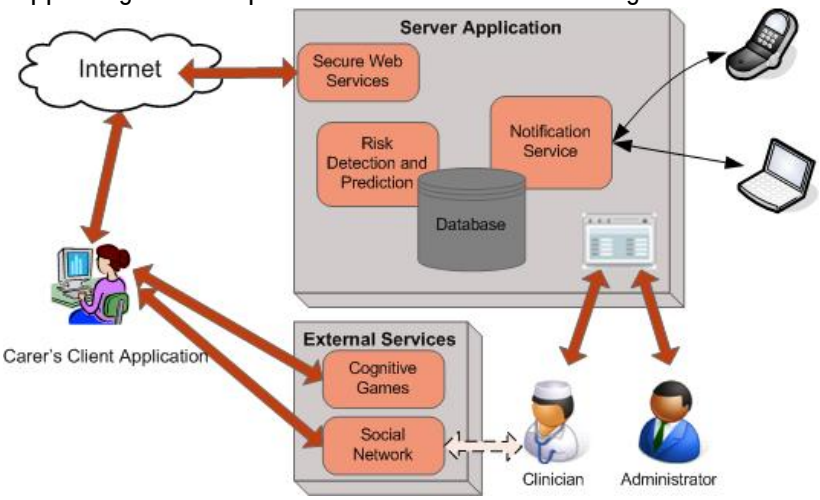
ALADDIN

Aladdin: Home Care System for the Efficient Monitoring of Elderly People with Dementia

Project acronym & n°	ALADDIN	AAL-2008-1-061
Duration & start date	27 months	1.09.2009
Budget	Total €1,970,323	Granted € 1,471,674
Contact	Maria Haritou	mhari@biomed.ntua.gr
Project website	http://www.aladdin-project.eu	

Project overview

ALADDIN's objective is to develop an integrated solution for the self-management of dementia, supporting both the patients and their informal caregivers.



ALADDIN system architecture

Expected project results

- The ALADDIN system will provide the technological means as well as a novel and credible methodology for:
- Efficient patient follow-up
- Early detection of decline symptoms
- Adaptive care / personalised intervention
- Networking / socialisation / education / cognitive stimulation
- Distress relief / prevention to the carer
- Decision support tools to the therapist

Status

ALADDIN project has just completed one year of implementation and it is expected that a first version of the complete system will be available for pilot operation and assessment on February 2011.

Bedmond: Behaviour Pattern Based Assistant for the Early Detection and Management of Neurodegenerative Diseases

Project acronym & n°	BEDMOND	AAL-2008-1-026
Duration & start date	36 months	1.06.2009
Budget	Total €2,410,318	Granted €1,388,564
Contact	Alberto Martinez Cantera	martinez@robotiker.es
Project website	www.bedmond.eu	

Purpose

Bedmond system tools provide support in both early diagnosis and disease tracking of mild cognitive impairment disorders (MCI). For both stages, several tools are fitted for the specific needs of end users: health professionals, caregivers, and the elder himself.

During the early diagnosis, the elder receives no support from Bedmond system in order not to disturb his daily life - while still sane. The health professional receives, with the desired periodicity, a report which has processed intelligently the information gathered from sensors about the elderly person's activity and behaviour. The caregivers are daily reported with main information about previous-day activity: meals, medications, visits in and visits out. She also has a friendly tool to annotate the elder's appointments and their fulfilments.

During the treatment process The elder receives some support from Bedmond system prescribed by the doctor in order to help him in his daily life, now on a cognitive decline phase: digital agenda to remind appointments and medication intakes, alarms not only technical but others related to his short-term memory loss (electrical appliances on, main door opened, ...).

The health professional receives a similar report to pre-diagnosis stage. The caregivers are daily reported. Besides the digital agenda as an aid for the elder, the caregiver will have now a tool for acquainting the doctor periodically with the elder's behavioural diary tool.

Status

Current stage of the project accomplishes new project improvements out of the original idea, mainly derived from a very exhaustive requirements specification phase and a very profound architecture definition: new sensors to be added (biomedical), new middleware layer for sensor data standardization, new functionalities for all end-users.

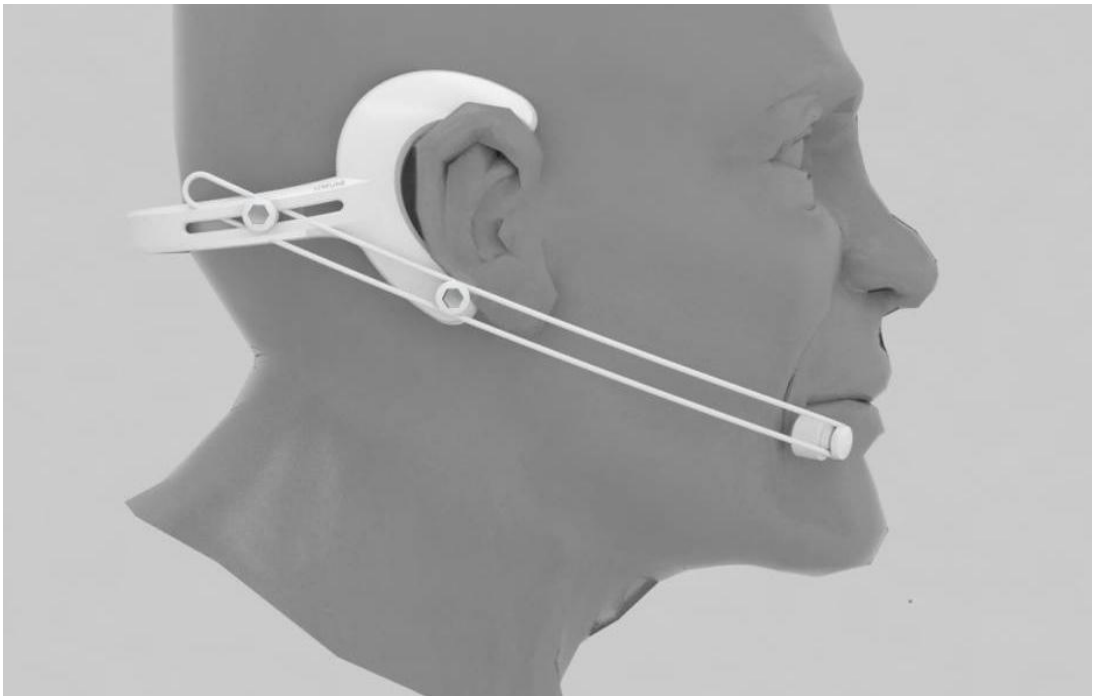
Bedmond consortium is formed by: AIT (Austria), CURE (Austria), IBERNEX (Spain), INGEMA (Spain), METICUBE (Portugal) and ROBOTIKER-TECNALIA (Spain)

The CapMouse Project

Project acronym & n°	CapMouse	AAL-2008-1-203
Duration & start date	30 months	1.04.2009
Budget	Total €1,201,741	Granted €573,925
Contact	Tomas Brusell	tomas@brusell-dental.com
Project website	www.brusell-dental.com/aal	

Purpose

The CapMouse project aims to enable and facilitate interaction between users and communication products such as mobile phone, computer, etc.



One of several prototypes

Product development phases

1. User studies
2. Refinement
3. Pre production

Predefined user group

Full function of the arms, hands and fingers
Full functionality of arms, 50% reduction in hands and fingers
50% reduction in arms, hands, fingers
0% function in the arms, hands and fingers

The CARE Project

Project acronym & n°	CARE	AAL-2008-078
Duration & start date	30 months	1.07.2009
Budget	Total: €2,365,495	Granted: €1,744,545
Contact	Nabil Belbachir	nabil.belbachir@ait.ac.at
Project website	www.care-aal.eu	

Purpose

The project aims to realize an intelligent monitoring and alarming system for independent living of elderly persons. Specifically, this project targets the automated recognition and alarming of critical situations (like fall detection) using a visual sensor and real-time processing while preserving the privacy and taking into account system dependability issues, especially ensuring reliability, availability, security, and safety from a holistic point of view.

Technology

The technology employed includes biologically-inspired neuromorphic vision sensoring for alarm, security, and monitoring purposes and tracking the elderly persons at home. The obtained real-time information can be processed for incident detections (e.g., fall detection and immobilised person); and hence instantaneous alarming.

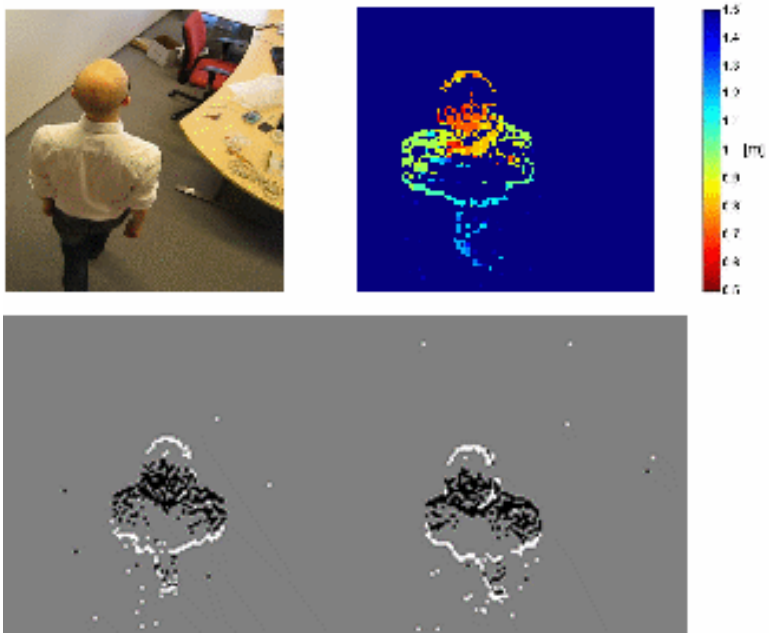


Figure: Fall detection with the neuromorphic vision sensors: (1) picture from the scene (top left), (2) its corresponding data representation from a pair of neuromorphic vision sensors (bottom), (3) the resulting stereo representation (top right).

One of the main concerns in the project is to keep the vision system as compact and unobtrusive as possible for confident and for later easy deployment.

The project concept and achievements will be technical and end-user evaluated at pilot sites in Finland and Germany with tests of the system effectiveness (sensor, visual interpretation, communication and alerting) and of accuracy and practicability. The end-user evaluations will be in close communication with test participants (elderly persons, nursing home operators and personnel) in order to determine their impressions and wishes for primary and secondary end-user involvement in further development of the ICT system.

Project acronym & n°	DOMEO	AAL-2008-159
Duration & start date	36 months	1.07.2009
Budget	Total: €2,465,201	Granted: €2,020,977
Contact	Joseph Canou	sales@robosoft.com
Project website		

Purpose

The purpose of DOMEO is to develop an assistive robotic system that would allow cognitive and physical stimulations, helping elderly and disabled people to remain autonomous as long as possible and to stay longer and safer at home. It does not replace human workers, but remote presence functionalities, like monitoring and alarms, helping caring personal and relatives to better assist the person.

Technology

2 robotics platforms are evaluated in DOMEO project, RobuMate for cognitive stimulation and daily life assistance, and RobuWalker for walking assistance. These 2 platforms are connected with a remote medical centre through Web interface.

RobuMate: This robot is able of verbal and non-verbal interactions with the user. The RobuMate demonstration addresses: (1) Human-Robot Interaction (cognitive and memory assistance) (2) sending video flow to scene analysis in case of emergency alarm (3) stimulation for doing physical exercises and monitoring user behaviours.

RobuWalker: This robot is a walk assistant, thus with physical interaction with the user. The RobuWalker demonstration addresses: (1) physical Human-Robot Interaction (assisting the sit-to-stand and walking) (2) monitoring the heart rate and sending data to processing centre.

The monitoring server allows accessing remotely the robot and its sensors. Therefore it is possible to remotely monitor the status of the robot but also to remotely control it. That is made through the use of a dedicated web application.

Status

Three robuMate platforms are being tested in laboratories, three RobuWalker will be delivered at a second step in the project. After the laboratories testing period and trials at medical centres, the robots will be evaluated in real environment i.e. at patient's homes. During these tests the whole system will be evaluated including communication with the remote medical centre.

eCAALYX: Enhanced Complete Ambient Assisted Living Experiment

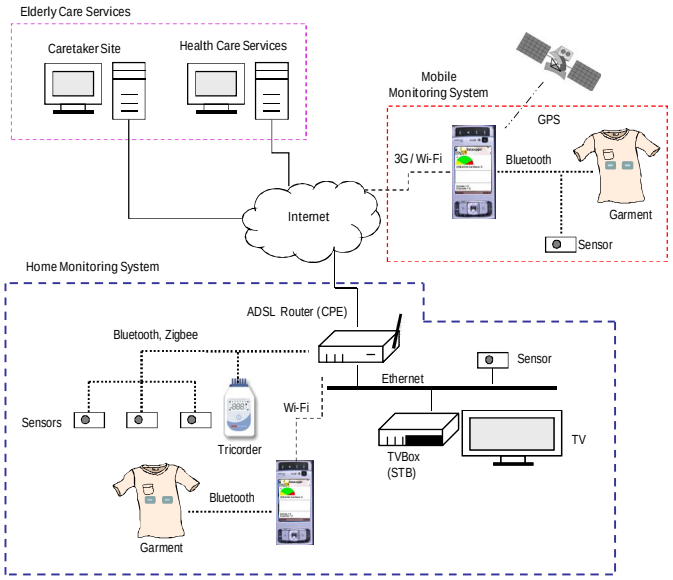
Project acronym & n°	eCaalyx	AAL-2008-032
Duration & start date	36 months	1.05.2009
Budget	Total: €4,118,002	Granted: €2,689,499
Contact	Carmen Margelí	cmargeli@cetemmsa.com
Project website	http://ecaalyx.org	

Purpose

The main objective of eCAALYX is to develop an efficient AAL health monitoring solution that addresses chronic conditions of elderly people and provides reliable long-term, maintenance-free operation in a non-technical environment to improve the elder's quality of life by assessing their health risk, monitoring and controlling their health status and by teaching them how to manage their chronic conditions so that continue to live independently at home. Additionally, it will allow coordinated global treatment from different doctors of patients suffering from comorbidity resulting in a much more efficient treatment.

Technology

A first version of the eCAALYX sub-systems has been developed during the first year of the project:



the Home system, which includes Customer Premises Equipment (CPE), Set-top-box (STB), Tricorder and home sensors, all located at the patients home;

the Mobile system, which includes the Wearable Body Sensors (WBS), a special garment containing medical sensors woven into the fabric and a mobile phone,
and finally

the Caretaker site developed for medical professionals to securely monitor the patient and provide assistance if needed.

Consortium

eCAALYX is coordinated by Fundació Privada Cetemmsa, Spanish Technology Centre, and the consortium consists of 11 partners from 5 different European countries: Spain, Portugal, Ireland, UK, and Germany.

Health @ Home

Project acronym & n°	H@H	AAL-2008-1-082
Duration & start date	24 months	1.02.2009
Budget	Total €2,985,513	Granted €1,420,834
Contact	Luca Fanucci	l.fanucci@cpr.it
Project website	www.health-at-home.eu	

Purpose

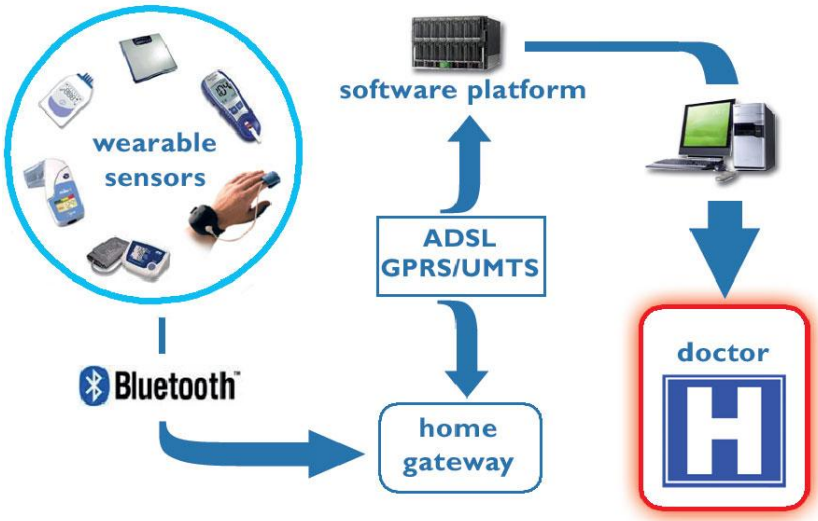
The Health at Home project (H@H) aims at solving societal problems related to the provision of healthcare services for elderly citizens affected by Chronic Hearth Failure (CHF), by enabling remote self-management of chronic disease. Among chronic conditions, CHF is particularly relevant, recently attracting the attention of physicians and administrators, as it represents the most common cause of hospitalization in older than 65 people, with a consequent relevant need of resources.

Technology

A new architecture of the socio-sanitary assistance services for patients suffering CHF, taking into account emerging international standards (HL7-RIM, CEN 13606) and EU indications and regulations for the socio-sanitary field, and still maintaining the specificities of the single European countries has been developed. The H@H prototypred ICT-based services includes a comfortable and easy to use system with wearable sensors - developed by H@H - for the acquisition, processing, transmission, recording and analyzing of medical information (ECG, Respiration, Weight, SpO_2, Blood Pressure,..). The service is capable of immediately visualizing the level of criticality in a situation. Target end-users (patients and physicians) are playing an active role in the project since its first steps, by participating in the definition and revision of the system.

Status

The H@H consortium, composed by eight EU partners from Italy, Slovenia and Spain, is currently finalizing the integration and technical validation of the whole system.



Final project demonstration will be performed on 30 patients in the three countries involved in the project. CHF patients will be carefully selected taking into consideration their medical history, features and personal profiles.

HAPPY AGEING:
"A Home based APProach to the Years of AGEING"

Project acronym & n°	HAPPY AGEING	AAL-2008-1-113
Duration & start date	24 months	1.04.2009
Budget	Total €1,675,979	Granted €986,153
Contact	Fiorella Marcellini	f.marcellini@inrca.it
Project website		

Purpose

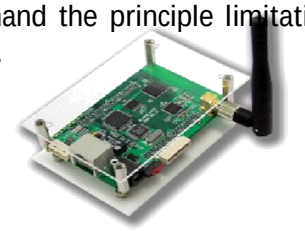
The objectives of the project are:

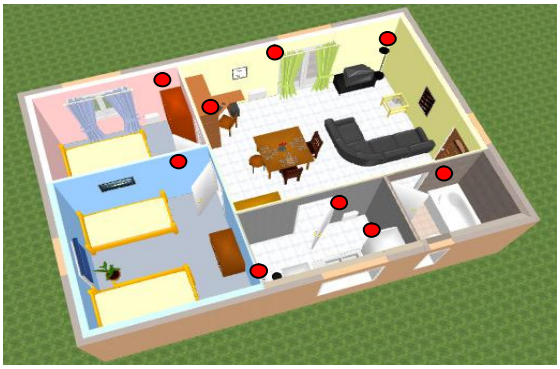
1) to prevent the incidence of chronic conditions and to manage such conditions when present, supporting independent living in old age;

2) to develop and integrate a customizable system matching the demand for technology by the elderly with current market supply;

3) to directly involve the end-user in all phases, assessing the user's expectations and needs, assuring user acceptance of the new system.

by implementation of a system to monitor daily actions and to support everyday life, keeping into consideration on one hand the principle limitations due to ageing and on the other the need of security of older people.





Technical

The three main technical modules are:

1. *Lifestyle monitor*, capable of recording main activities that take place in the home and compare them with habits of the monitored subject. The aim is twofold: on one hand to remind the user about activities that need to be performed (e.g. taking medicines) and on the other to monitor a lack of activity for an extended period, or to identify unusual behaviors.

2. *Navigation assistant*, to support user's mobility in close environment, particularly useful for older people affected by either low vision or difficulties in orientation.

3. *Personal assistant*, characterized by two main groups of functions: a) support in performing usual common actions (e.g. dialing a phone number), b) support in searching for personal objects lost at home (e.g. spectacles or keys, etc.).

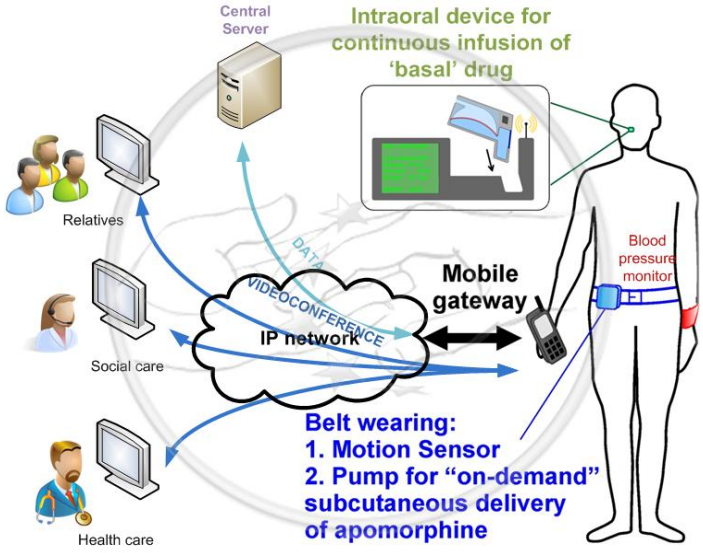
HELP: Home Based Empowered Living for Parkinson's disease Patients

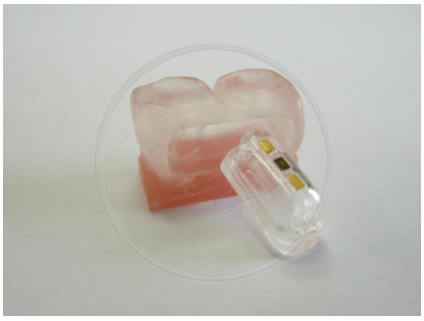
Project acronym & n°	HELP	AAL-2008-1-022
Duration & start date	36 months	1.02.2009
Budget	Total €4,510,360	Granted €2,524,863
Contact	Pierre Plaza	pierre@tid.es
Project website	http://www.help-aal.com	

Purpose

The objective of HELP is to develop a system that is able to administer drug therapy in a controlled, and either continuous or on-demand manner, to manage disease progression and to mitigate its symptoms in Parkinson's disease - a degenerative disorder of the central nervous system with more than four million sufferers worldwide. It is characterised by a set of symptoms such as bradykinesia (slowness of movement), muscular rigidity (stiffness of the limbs and trunk), resting tremors (trembling in hands, arms, legs, jaw and face) and postural instability (impaired balance and coordination).

Technology





Intraoral device (prototype)

This device is an adapted version of the one successfully designed and tested in the INTELLIDRUG FP6 project, which is a removable implant or attached to a partially removable prosthesis loaded with a configurable cartridge called *BuccalDose* tol administer a concise amount of an anti-Parkinson's drug which will be absorbed efficiently to the body for a constant basal. The concept allows the patient to adjust his/her daily medication according to his/her needs within boundaries that are pre-set by a medical supervisor or doctor. With an accessory device (base station) the cartridge will be identified before and after usage and the administered amount of drug can be measured.

HearMeFeelMe (HMFM)

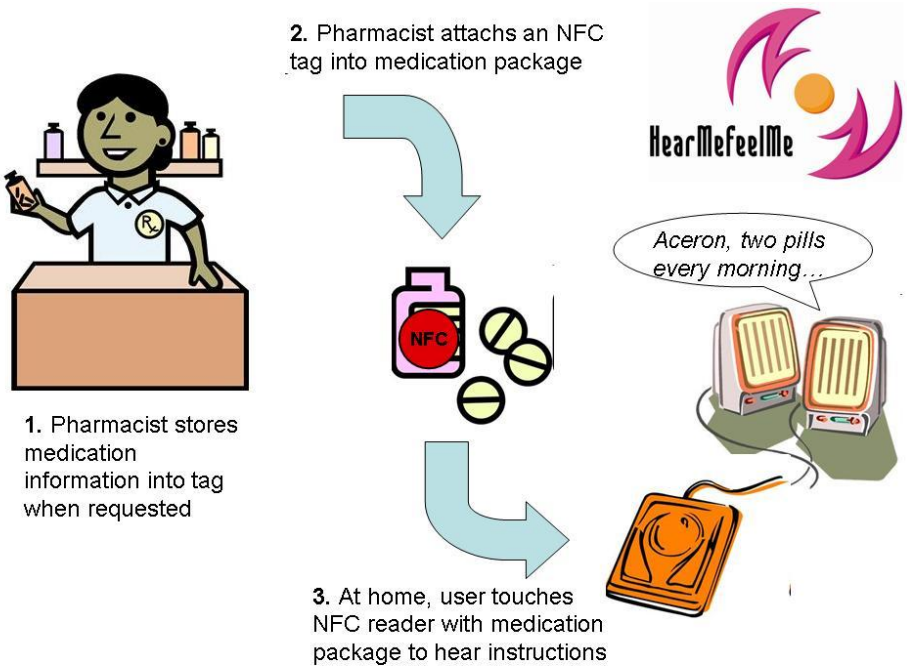
Project acronym & n°	HMFM	AAL-2008-1-041
Duration & start date	24 months	1.07.2009
Budget	Total €2.224.234	Granted €1,506,464
Contact	Minna Isomursu	Minna.Isomursu@vtt.fi
Project website	www.hearmefeelme.org	

Purpose

Different degrees of vision impairments are inevitable results of growing old. The HMFM project aims at developing ICT-based systems for older people with visual impairments providing an easy, simple and intuitive way to access information and digital services in their home environment.

Technology

The technical solutions explored and used in HMFM constructions are based on existing technological solutions available today, such as Near Field Communication technology (NFC). NFC provides an opportunity to build touch-based user interfaces especially suitable for elderly with decreased hand-eye coordination and vision.



The HMFM services constructed and piloted during the project allow the users to locate and identify medicine packaging, listen to medication information and dosage instructions through audio, and receive instructions and reminders through electronic medication plan.

Piloting

The two year project started in July 2009. Currently (August 2010) the project is undergoing an iterative piloting phase, where the service constructions are trial used through adoption involving all service chain partners in Finland and Spain.

HOPE: Smart Home for Elderly People

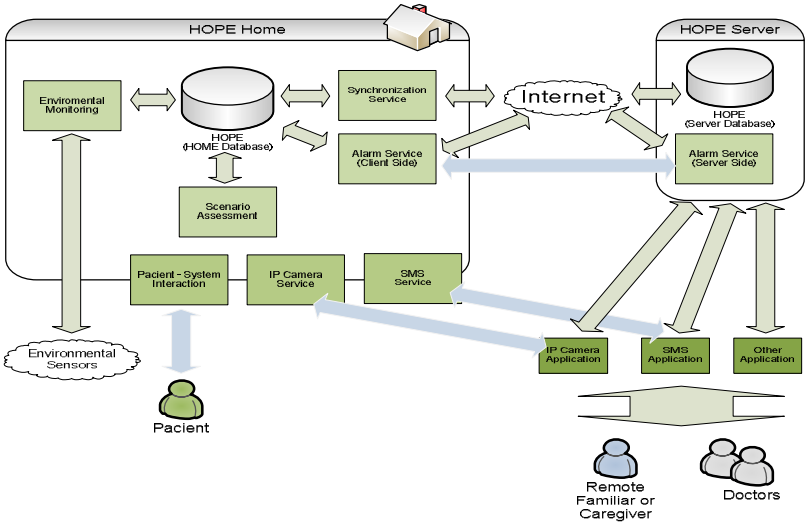
Project acronym & n°	HOPE	AAL-2008-1-099
Duration & start date	24 months	7.07.2009
Budget	Total €2,138,094	Granted €1,029,199
Contact	Dimitrios Kilias	kilias@forthnet.gr
Project website	www.hope-project.eu	

Purpose

Smart Home for Elderly People (HOPE) with purposes: (a) to extend the time people can live in their preferred environment by increasing their autonomy, self-confidence and mobility, (b) to support maintaining health and functional capability of the elderly individuals, (c) to promote a better and healthier lifestyle for individuals at risk, (d) to enhance the security, to prevent social isolation and to support maintaining the multifunctional network around the individual, (e) to support carers, families and care organizations, and (f) to increase the efficiency and productivity of used resources in the ageing societies.

Technology

Hope is an integrated, smart platform that uses the Zigbee technology in order to enable the elderly people with Alzheimer's disease to use innovative technology for a more independent life, easy access to information, monitoring their health.



HOPE consists of a self-operated, self-adjusted, innovative intelligent IP Based Universal Control Box (UCB) that uses intelligence to manage the various connected subsystems and devices within a residence of the elderly people.

Status

The project has just completed the first year of development and three project Pilot Sites have been established in Greece, Italy and Spain. Initial pilot configuration includes the collection of environmental and medical data, and communication between the house and the HOPE's data centre.

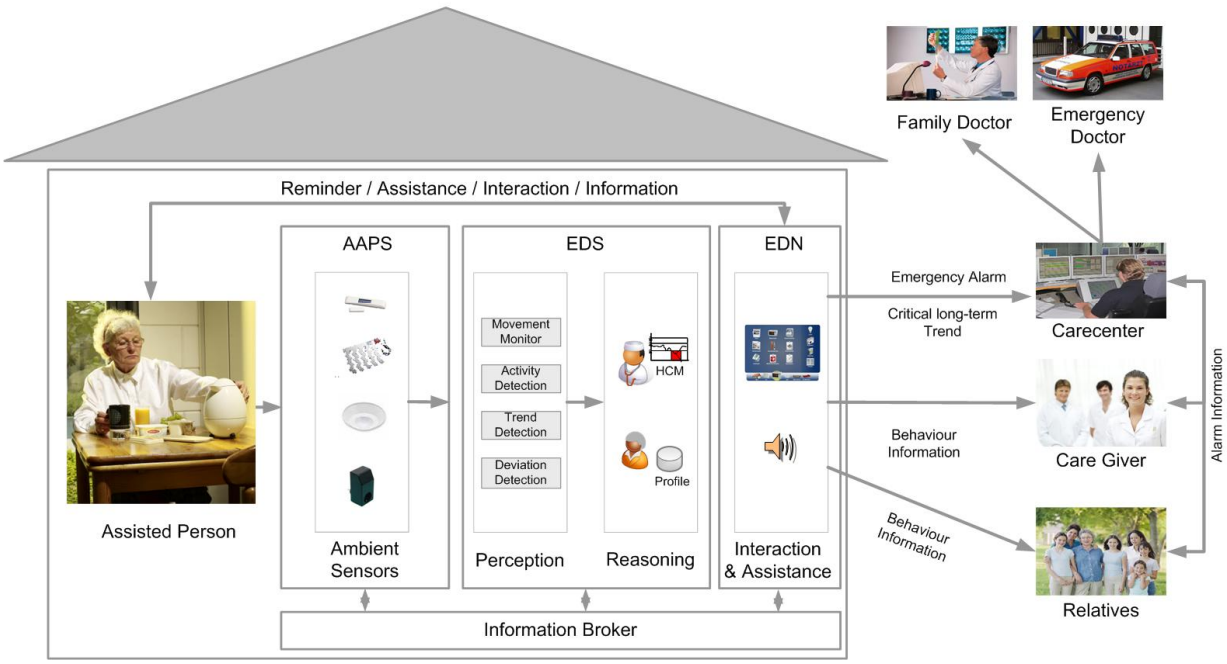
ROSETTA: Guidance and Awareness Services for Independent Living

Project acronym & n°	ROSETTA	AAL-2008-1-099
Duration & start date	36 months	1.06.2009
Budget	Total €3,377,805	Granted €2,329,814
Contact	Dr. Irek Karkowski	irek.karkowski@tno.nl
Project website	www.aal-rosetta.eu	

Purpose

The objective of ROSETTA is to help community dwelling people with progressive chronic disabilities, such as Alzheimer's Disease, to retain their autonomy and quality of life as much as possible and to support their (in)formal carers by developing and providing an ICT system that offers activity guidance and awareness services for independent living.

Technology



The ROSSETA system:

AAPS: Advanced Awareness and Prevention Service (including e.g. *smart cameras* for unattended activity surveillance and also positioning by wireless beacons)

EDS: Early Detection System for monitoring patterns of behaviour for detecting changes in chronic long-term conditions.

EDN: Elderly Day Navigator (including e.g. reminders of activities of daily living and appointments, visual phonebook, and simplified digital communication facilities)

Project schedule

- June 2009: Start of the project
- 2009-2010: Development & integration
- 2011: Field tests in users' homes

The AAL Joint Programme Call 1 Funded Projects without Description in this Brochure

Project acronym & n°	A²E²	AAL-2008-1-071
Duration & start date	36 months	1.05.2009
Budget	Total € 5,099,206	Granted € 3,074,485
Contact	PHMP Rroelofsma	p.h.m.p.roelofsma@vu.nl
Project website	www.a2e2.eu	

Project acronym & n°	AMICA	AAL-2008-1-176
Duration & start date	36 months	31.03.2009
Budget	Total € 2,783,139	Granted € 1,846,884
Contact	Luis Crespo	luis.crespo@uca.es
Project website	www.amica-aal.com	

Project acronym & n°	CCE	AAL-2008-1-101
Duration & start date	36 months	1.07.2009
Budget	Total € 3,317,793	Granted € 2,211,854
Contact	Kim Noonan	NoonanK@bre.co.uk
Project website	www.cceproject.eu	

Project acronym & n°	EMOTION-AAL	AAL-2008-1-319
Duration & start date	36 months	1.07.2009
Budget	Total € 3,858,890	Granted € 2,698,064
Contact	Hans-Otto Maier Prof. Kerstin Wessig	hans-otto.maier@bbraun.com wessig@efh-darmstadt.de
Project website	www.emotionaal.eu	

Project acronym & n°	HERA	AAL-2008-1-079
Duration & start date	24 months	1.10.2009
Budget	Total € 2,549,293	Granted € 1,575,350
Contact	Manuchehr Ghazanfari Boris Grabner	manuchehr.ghazanfari@a1telekom.at boris.grabner@a1telekom.at
Project website	www.aal-hera.eu	

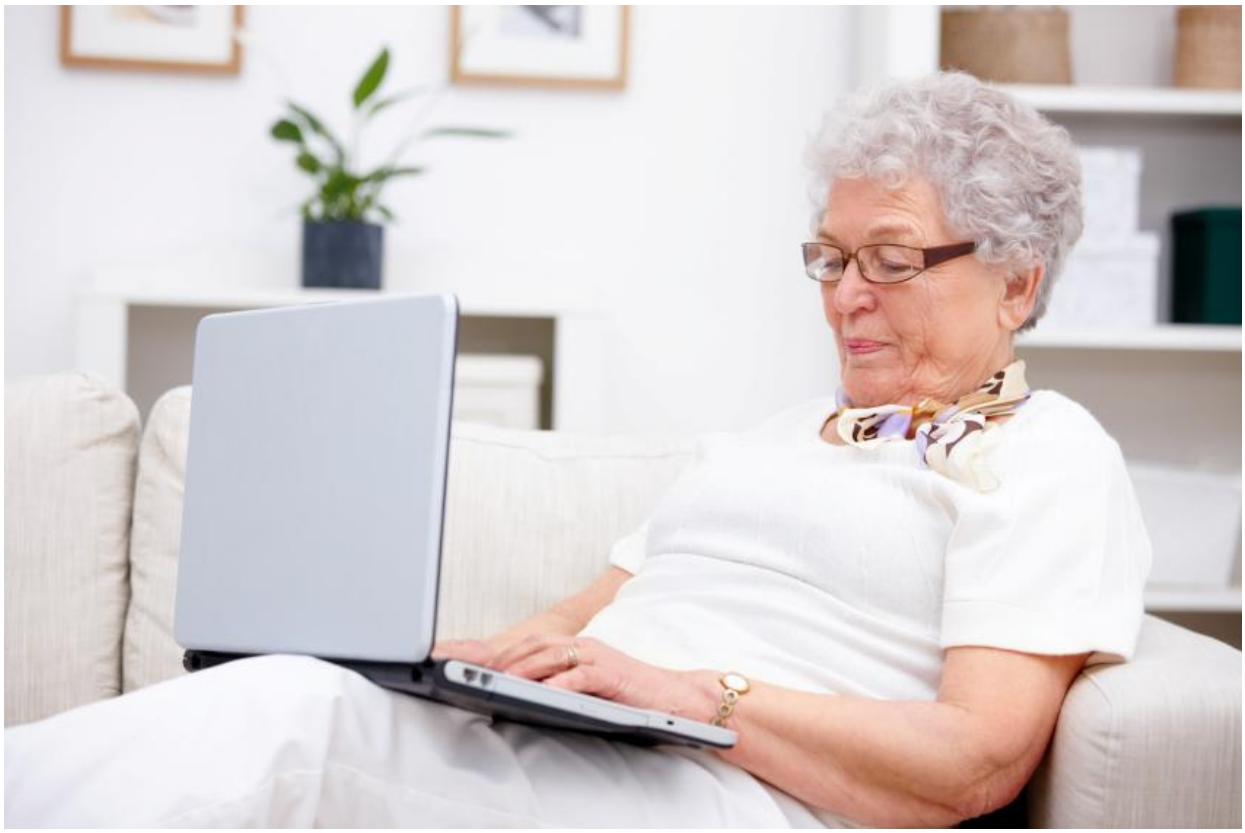
Project acronym & n°	IS-ACTIVE	AAL-2008-1-256
Duration & start date	36 months	1.04.2009
Budget	Total € 1,814,812	Granted € 1,394,777
Contact	Paul Havinga Raluca Marin-Perianu	P.J.M.Havinga@utwente.nl raluca.marinperianu@utwente.nl
Project website	www.is-active.eu	

Project acronym & n°	PAMAP	AAL-2008-1-162
Duration & start date	36 months	1.03.2009
Budget	Total € 2,592,541	Granted € 1,828,717
Contact	Didier Stricker	Didier.Stricker@dfki.uni-kl.de
Project website	www.pamap.org	

Project acronym & n°	REMOTE	AAL-2008-1-147
Duration & start date	36 months	1.6.2009
Budget	Total € 3,301,776	Granted € 2,249,196
Contact		www.remote-project.eu/contact.html
Project website	www.remote-project.eu	

Project acronym & n°	RGS	AAL-2008-1-119
Duration & start date	36 months	1.04.2009
Budget	Total €2,166,064	Granted €1,809,158
Contact	Paul Verschure	paul.verschure@upf.edu
Project website	http://iua.upf.edu/rgs	

Project acronym & n°	SOFTCARE	AAL-2008-1-115
Duration & start date	36 months	1.11.2009
Budget	Total € 1,188,328	Granted € 707,513
Contact	Albert Ninieto	albert.nieto@cric.cat
Project website		



AAL Joint Programme - Call 2 projects

ALIAS: The Adaptable Ambient Living Assistant

Project acronym & n°	ALIAS	AAL-2009-2-049
Duration & start date	36 months	1.07.2010
Budget	Total € 3,877,566€	Granted €2,360,265
Contact	Dr. Frank Wallhoff	contact@aal-alias.eu
Project website	www.aal-alias.eu	

Purpose

The objective of the project Adaptable Ambient LIving ASsistant (ALIAS) is the product development of a mobile robot system that interacts with elderly users, provides assistance in daily life, and promotes social inclusion by creating connections to people and events in the wider world. ALIAS is embodied by a mobile robot platform with the capacity to monitor, interact with and access information from on-line services, without manipulation capabilities. The function of ALIAS is to keep the user linked to the wide society and in this way to improve her/his quality of life by combating loneliness and increasing activities.

Scientific objectives

- Social acceptable navigation for natural movement behavior of robotic platform according to the presence of humans.
- Proactive behavior providing assistance and motivation in the daily life of the elderly people to enrich well-being with new information.
- Elderly appropriate representation of web 2.0 content including recent insights gained from Gerontology.

Anticipated achievements

- Improved social integration by a customizable communication portal to user needs.
- Easy-to-use and fault tolerant human-machine interface on a mobile robot platform approved by German Technical Inspection Agencies (TÜV) and meeting European Directives.
- Providing information about local, regional and national events by applying sophisticated web 2.0 technologies to deliver the information in an appropriate fashion.
- Innovative web services for elderly people to discover new contacts and to sustain meaningful online relationships, potentially laying the basis for meeting in the real world.
- Additional innovative Brain Computer Interface to train and stimulate cognitive skills.
- Strong user-inclusion through all design and development phases.

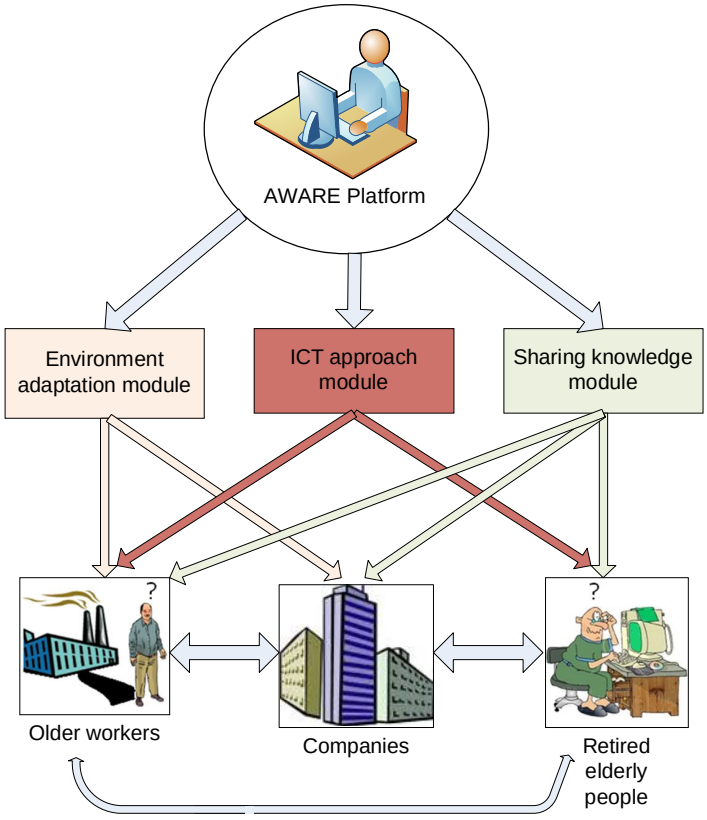
AWARE: Ageing Workforce towards an active Retirement

Project acronym & n°	AWARE	AAL-2009-2-136
Duration & start date	36 months	1.07.2010
Budget	Total €1,373,871	Granted € 747,327
Contact	Alberto Ferreras	alberto.ferreras@ibv.upv.es
Project website	http://aware.ibv.org/ (forthcoming)	

Purpose

The purposes of the AWARE project are to develop a Social Network hosted on a telematic platform for providing innovative services to both the older workers and retired elderly people, and to contribute to social inclusion, to contribute to EU policies towards the aging society and to support companies' in the management of the needs of the ageing workforce.

Technology



Environment adaptation module: This module will provide an adaptation plan for every kind of environment (workplace, home, etc). The service will be provided by an intelligent web searcher.

Sharing knowledge module: This module will provide mechanism for sharing knowledge, in order to enable workers to maintain an active role after retirement by allowing share of expertise and experience, get in contact with other workers and retired elderly people and promote remote short-time work, which could enable elderly people to stay active after retirement; also, this will allow the company to maintain and acquire knowledge and expertise although a worker has retired.

ICT approach module: This module will be a trainer tool for the platform and the provided services. It will be focused on pedagogical methodologies adapted for elderly people. The acquired expertise in using such technologies will allow the use of the services of the platform after retirement, as well as improve the possibilities offered by general ICT over internet, contributing to social integration and reducing loneliness and isolation.

Social network services (chatting, blogging, etc) will be complemented by specific services oriented to aging workforce and elderly people needs. Additionally, the platform and its interfaces will be entirely designed basing on accessibility and usability requirements of the final users. Finally, the platform will be developed using open-source software and the system will be modular in design to maximize flexibility and extensibility.

CVN: Connected Vitality Network

Project acronym & n°	Connected Vitality, The Personal Telepresence Network, CVN	
Duration & start date	36 months	1.06.2010
Budget	Total € 2,518,060	Pending
Contact	Robbert Smit	robbert.smit@webchair.com
Project website	www.connectedvitality.eu	

Purpose

Connected Vitality - the Personal Telepresence Network (CVN) - aims to link groups of senior citizens into a video communications network, enabling them to choose the activity as well as levels of social interaction according to their individual needs, abilities and lifestyle. CVN is going to be realized, based upon the latest, Video Coding standard, fast internet, and moderate prices for high speed hardware.

Technology

Nothing exceeds meeting people eye-to-eye but new telepresence technology provides, however, the second best. CVN will be based on the following modules for teleprecence :

- *CONTACT – single point videoconferencing; linking elderly with family, friends and relatives, fulfilling social needs;*
- *CARE – singe point videoconferencing; linking elderly with caregivers and home service providers, like food and home maintenance fulfilling practical, daily needs;*
- *COMMUNITY - multipoint group videoconferencing; based on shared interests, hobbies, pastimes and personal experiences*
- *KNOWLEDGE TRANSFER - multipoint group videoconferencing based on livelong learning and knowledge transfer between peers and generations*

Outlook

We believe that with the creation of a new generation of multipoint videoconferencing formats in which up to 50 people can interact and conduct social meaningful activities with each other, a new vision on meaningful contact over distance will arise.

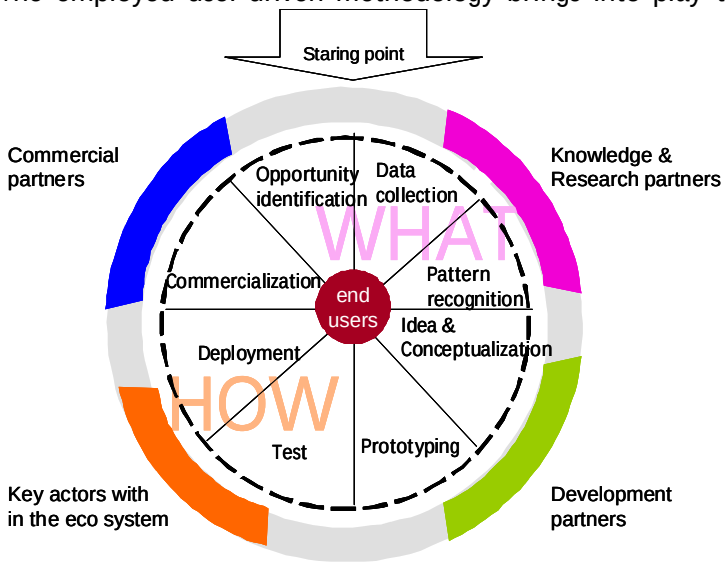
Project acronym & n°	E2C	AAL-2009-2-094
Duration & start date	36 month	1.03.2010
Budget	Total €3,256,975	Granted €1,776,369
Contact	Thomas Hammer-Jakobsen	hamm@copenhagenlivinglab.com
Project website	www.express2connect.org	

Purpose

The overall objective for the E2C consortium is to develop, test and deploy a web service, which stimulates and facilitates personal storytelling, and enable interest-based connections and communication among elderly people and thereby empower them and enrich their life.

Methodology

The employed user-driven methodology brings into play the Innovation Wheel that divides the innovation process into two overlapping phases: A WHAT phase that focuses on what to produce and a HOW phase, which focuses on how to produce it. The process has several iterations leading to a refinement of the product as it is being produced, tested, adjusted and tested again. This leads to new insights that ensure value-creation for end-users.



The end-users and the SMEs will be integrated in all steps of the process, either directly present or indirectly through ethnographic research and the business 'idea market' and commercialisation.

Data collection: The initial data collection is focused on synthesising insights from the participating countries in relation to the subject.
Pattern recognition: The inputs are registered, processed and analysed, using qualitative data analysis supported by the software.
Idea & conceptualisation: The opportunities and criteria identified will be used as inputs for ideation and concept-development.
Prototyping: A working prototype will be developed based on ideas from the national workshops, transforming the existing Storytable®, towards individual use at home.
Test: The prototype will be tested in real life environments with seniors representing independent and dependent elderly people from the participating countries.
Deployment: The deployment process shall ensure that E2C not only produce an ideal solution, but also that the solution can, in fact, be implemented in different EU countries.
Commercialisation: To create sustainable business models the E2C costs- and price structure for direct use and related services and deployment activities shall be uncovered. A clear market-segmentation and exploitation strategy shall be developed.

ExCITE: Enabling Social Interaction through Embodiment

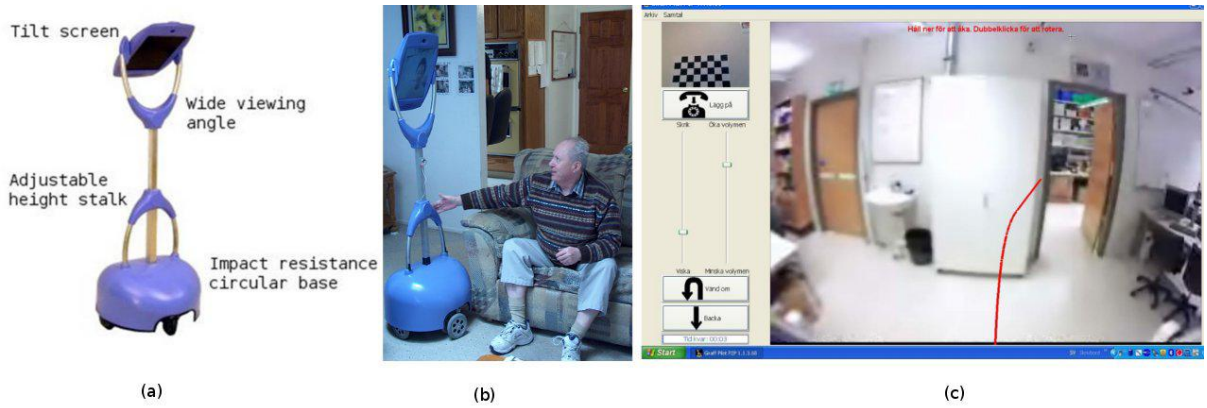
Project acronym & n°	ExCITE	AAL-2009-2-125
Duration & start date	36 month	1.07.2010
Budget	Total € 2,853,701	Granted € 1,448,430
Contact	Silvia Coradeschi	Silvia.Coradeschi@oru.se
Project website	www.excite.org	

Purpose

The purpose of the project is – in an in-situ, longitudinal, and pan-European scale - to evaluate user requirements for robotic telepresence employing the Giraff robotic platform.

Technology

On one end, there is a mobile robotic base equipped with a web camera, a microphone and a screen. A user interacts through the robotic device with a peer, who connects through a client interface, which also allows the other end user to teleoperate the Giraff.



(a) Giraff robot; (b) User interaction with the robot; (c) prototype of remote client interface.

A standard computer, its pointing device (such as a mouse) and a web camera is sufficient for the remote client.

Although not yet on the market, the Giraff is at a mature stage of development, and is designed to accommodate future needs in terms of computing power and flexibility.

The hardware platform has already undergone extensive field-tests therefore it Is anticipated that most modifications will involve software re-factoring and possibly some software development to accommodate entirely new user requirements. The Giraff will be deployed at several different types of end user locations in Italy, Spain and Sweden. A large study, outside laboratory premises, allows better correlation of the above parameters to important social factors such as gender, cultural aspects and lifestyle.

Go-myLife: Going social: my social life

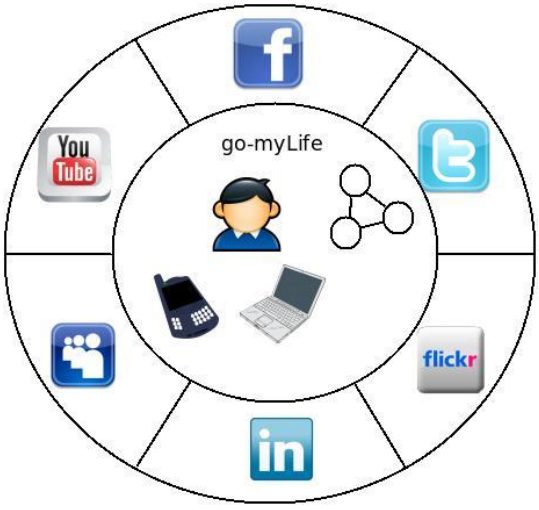
Project acronym & n°	Go-myLife	AAL-2009-2-089
Duration & start date	30 months	1.07.2010
Budget	Total € 2,470,638	Granted € 1,532,180
Contact	Francesco Dandria	francesco.dandria@atosresearch.eu
Project website	http://gomylife-project.eu	

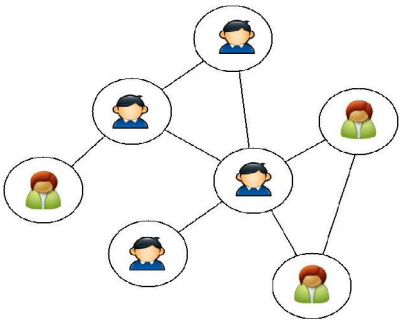
Purpose

Go-myLife develops a mobile social networking platform costumed to the needs of the elderly, allowing interactions with their peers and families, as well as easy access to relevant geographically based information.

Technology

The architecture consists of a core social networking platform connected to disparate social networking sites through middleware that essentially addresses personalization, security and integration-related requirements, with an easy and accessible interface.





Other than controlling user access and authentication, the core platform will also manage privacy, trust and reputation through identity management and reputation systems. This will ensure that during any group interaction, users are aware of the information being shared and have aids available to control it. To assure inter-operability and ubiquity, Go-myLife will provide a web-based solution.

Guiding principles

- *Inclusiveness:* Go-myLife is not only for older people. Go-myLife makes it easier for older people to participate in mainstream activities and feel a part of the whole of society
- *Focus on social interactions:* although many assistive technologies can be incorporated into Go-myLife, we give higher priority to ones facilitating social interactions
- *Rapid rate of change and progress of technologies:* Go-myLife is developed in a way that reflects future trends and enables the incorporation of future technologies
- *User Involvement:* by adopting a "user involvement" approach, Go-myLife actively seeks the participation of older people, via a mix of methods

Osteolink (former T-Break)

Project acronym & n°	Osteolink/T-Break	AAL-2009-2-325
Duration & start date	18 months	01.07.2010
Budget	Total CHF 1,845,583	Granted CHF 412,562
Contact	Victoria Monti	VMonti@iofbonehealth.org
Project website	http://osteolink.stg.syzygy.net/ (beta site) http://www.iofbonehealth.org/about-iof/iof-programs/outreach-education/osteolink.html	

Purpose

OsteoLink is a Pan- European collaboration designed to develop a grassroots network of osteoporosis patients by using a combination of ICT-based solutions together with in-person meetings. OsteoLink brings a novel social network to people with osteoporosis, their friends, families, physicians and other healthcare professionals (HCP). A community based communications programme from the University of Geneva in partnership with the International Osteoporosis Foundation (IOF), the OsteoLink platform was designed to respond to unmet needs in osteoporosis management by providing an easy way for people who care about osteoporosis to connect, locally and globally.

Technology

OsteoLink provides a dynamic online forum upon which global and local conversations about osteoporosis can take place, enabling the osteoporosis community to connect at home, or in their hometown. OsteoLink is designed to help people communicate more effectively when talking about osteoporosis – and is an online and in person source of trusted osteoporosis information. A beta site is being tested, and pilots will be launched in Austria, Germany, Sweden and Switzerland at the end of 2010.

Expected outcome

The quality of life of the elderly is enhanced directly through OsteoLink as they find user friendly online tools, adapted to their local language and custom, local support group meetings all supported by their local end user groups and attended and used by peers. This provides the participants with the opportunity to acquire, create, share and disseminate their knowledge to a relevant wider community. By feeling empowered to care for themselves with the support of their peers, by having credible information about their disease available, by engaging with others in a well defined network, people are less likely to remain isolated, a known factor of depression, fracture and overall poor clinical outcomes.

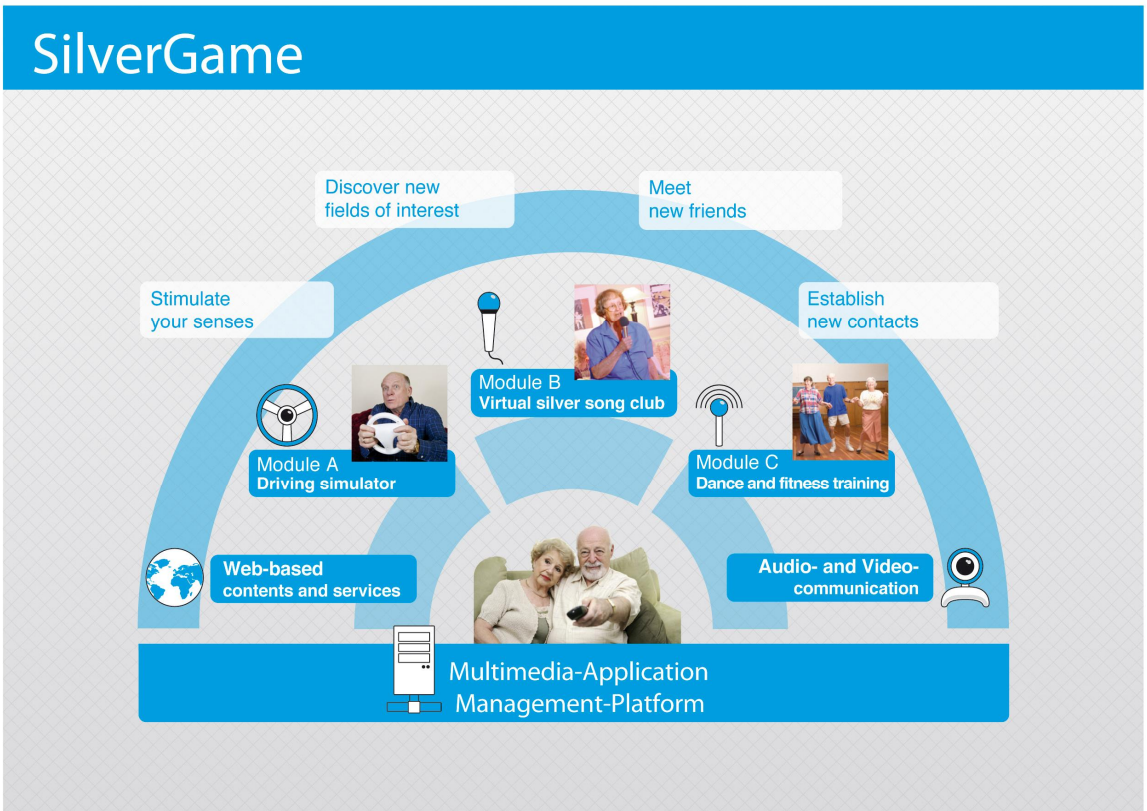
Project acronym & n°	SilverGame	AAL-2009-2-113
Duration & start date	26 months	1.05.2010
Budget	2,777,000	Granted 1,862,000
Contact	Joachim Senger	joachim.senger@icomedias.com
Project website	www.silvergame.eu	

Purpose

The project SilverGame aims to develop attractive and stimulating game-based multimedia applications that foster the social connection and interaction of elderly people with society. The project's approach is to provide a central platform and virtual environment that allows elderly people to share their hobbies such as singing and dancing and helps them to stay in touch with other community members - the goal being to transfer these virtual interactions into real relationships and social inclusion. Additional services like real events in places nearby will help elderly people to get and to stay connected in real life also.

Technology

SilverGame is a serious online gaming platform offering multimedia applications, community features and web-based services for elderly people. The users can have fun by playing games like a virtual song club or a dance and fitness training. On the one hand, they can improve their physical and mental abilities – with the system providing sensor-based feedback. On the other hand, they can



interact and communicate with each other via an integrated videoconferencing system. The telepresence provides a realistic impression of the player's emotions and introduces the possibility for family and friends to take part in the activity uring or after gaming.

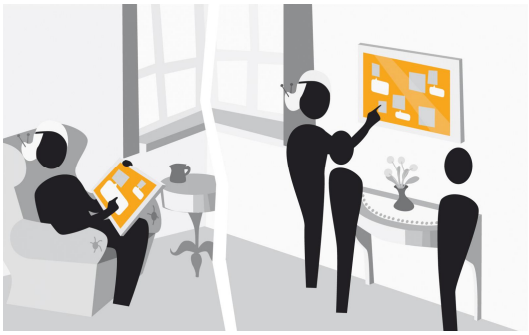
SI-Screen

Project acronym & n°	Si-Screen	AAL-2009-2-088
Duration & start date	36 months	1.05.2010
Budget	Total € 2,744,500	Granted 1,714,100
Contact	Katja Popp	kp@sportkreativwerkstatt.de
Project website		

Purpose

The use of the SI-Screen shall increase the virtual as well as the real social interaction and therefore improve the user's quality of life and physical health through interpersonal stimulation and motivation for more physical activity.

Technology



Thus the core idea of the project is support of interaction with the "social web", to integrate the user-oriented services (e.g. home automation, telecare or other health and leisure related local offers) and to build a bridge between the virtual and the real world through an image-based multimedia device adjusted to the needs of the target group. The focus lies on easy, motivational and intuitive usability and the improvement of the quality of life through increased social interaction, the support of autonomy and the motivation for more physical activity.

SI-Screen consortium

The project is coordinated by SportKreativWerkstatt GmbH (Munich, Germany). Other German partners are Universität der Bundeswehr München, Vios Medien Treffpunkt 55plus and brainware AG. From Spain are FATEC, tioman & partner, Instituto de Biomecanica de Valencia (IBV) and Servicios de Teleasistencia. From Italy helios and from Austria Porsche Design Studio will join the project.

TAO: Third Age Online

Project acronym & n°	TAO	AAL-2009-2-084
Duration & start date	36 month	start: 1.10.2010
Budget	Approximately 3 million Euro	
Contact	Beat Estermann	beat.estermann@bfh.ch
Project website	Forthcoming (www.thirdageonline.eu)	

Purpose

The main target of the "TAO" (Chinese for way, method) project is to highlight the ways in which the access of older persons to the opportunities offered by online communities can be facilitated. At the same time, the project aims to profit from the growing number of older persons to advance charitable projects of online communities. Two kinds of online communities are at the centre of attention: On the one hand partly goal-oriented senior communities such as Seniorweb Switzerland and Seniorweb Netherlands, on the other hand goal-oriented Wikimedia communities with a mixed target group.

The project aims at

- developing effective methods and measures for motivating older persons to participate in online communities and for fostering the intergenerational integration of these communities
- adapting the design of the user interfaces and the functionalities of online platforms to the specific needs of older persons

TAO Consortium

Tao consortium consists of Bern University of Applied Sciences, Department of Business and Administration, Health, Social Work (coordinator); University of Maastricht – MERIT, Collaborative Creativity Group; University of Ulm, Centre for General Scientific Continuing Education; Seniorweb.NL; Seniorweb.ch; Wikimedia, Germany; Wikimedia CH; Zeix AG (Switzerland);); MD Systems (Switzerland); and Access for All Foundation (Switzerland).

WeCare

Project acronym & n°	WeCare	AAL-2009-2-026
Duration & start date	30 months	11. 02. 2010
Budget	Total € 3,451,000	Granted €2,184.000
Contact	Christine Balch	christine.balch@tno.nl
Project website	www.wecare-project.eu	

Purpose

WeCare is a collaborative European project which primary goal is to encourage older people to create, participate in and continue their social networks in order to prevent isolation and loneliness.

Technology

In the framework of the project one internet service, WeCare 2.0, will be developed, evaluated and deployed. The service integrates communication, coordination and information, and helps people to participate and cooperate within and between social networks. It includes easy-to-use online calendars and activity planners, video communication, blogs and forums. Special care will be given to privacy and authorization. The service will be built using readily existing applications and prototypes.

Process

Older people but also other stakeholders (family, other informal care-givers) are being involved during the project, to ensure that WeCare 2.0 matches their needs and preferences. User involvement and trials will be conducted in The Netherlands, Spain, Ireland and Finland, in order to adapt to the different socio-cultural and governmental contexts.

Furthermore, business models will be developed to ensure further successful implementation and up-scaling of the service. The ultimate goal is to enable (local) governments or care or welfare organizations to concretely deploy internet services like WeCare 2.0. Therefore, recommendations for national or local policy will also be formulated.

The AAL JP Call 2 Funded Projects without Description in this Brochure

Preliminary list

Project acronym & n°	3rd-Life
Full title	3D virtual environment for social interaction of elderly people
Budget	24 months
Contact	Cristina Buiza efernandez@zabala.es

Project acronym & n°	ALICE
Full title	Advanced Lifestyle Improvement system & new Communication Experience
Budget	24 months
Contact	Karin Rehatschek karin.rehatschek@joanneum.at

Project acronym & n°	AMCOSOP
Full title	Ambient Communication for Sense of Presence
Budget	30 months
Contact	Jukka Vanhala jukka.vanhala@tut.fi

Project acronym & n°	Co-LIVING
Full title	Virtual Collaborative Social Living Community for Elderly
Budget	36 month
Contact	Jos (J.U.) Kemmerling j.kemmerling@orbisconcern.nl

Project acronym & n°	EasyReach
Full title	Fostering the social interactions of home-bound and less educated elderly people.
Budget	28 months
Contact	Roberto Bisiani Roberto.bisiani@disco.unimib.it

Project acronym & n°	ELDER-SPACES
Full title	Managing Elderly Social Relationships for better Communication, Activation and Interaction
Budget	30 months
Contact	Nikolaos Bezerianos europroposals@singularlogic.eu

Project acronym & n°	FamConnector
Full title	"FamConnector": Activity based, intergenerational ICT interactions
Budget	30 months
Contact	Dror Oberman dror@mygrandchild.com

Project acronym & n°	FoSIBLE
Full title	Fostering Social Interactions for a Better Life of the Elderly
Budget	36
Contact	Ing. Juergen Ziegler Joerg.niesenhaus@uni-due.de

Project acronym & n°	HELASCoL
Full title	Helping elders to live an active and socially connected life by involving them in digital society
Budget	23 months
Contact	Bela Batizi Pocsi Batizi.bela@metacom.hu

Project acronym & n°	HOPES
Full title	Help and social interaction for elderly On a multimedia Platform with E-Social best practices
Budget	30 months
Contact	Christian Schoen cschoen@info-techno.com

Project acronym & n°	HOMEdotOLD
Full title	HOME services aDvancing the sOcial inTeractiOn of eLDerly people
Budget	24 months
Contact	Gianna TSAKOU gtsakou@singularlogic.eu

Project acronym & n°	Join-in
Full title	Senior Citizens Overcoming Barriers by Joining Fun Activities
Budget	36 months
Contact	Claudia Hildebrand hildebra@helmholtz-muenchen.de

Project acronym & n°	NoBits
Full title	Nostalgia Bits
Budget	24 months
Contact	Daniel Sardi Np.pm@mmklaszter.com

Project acronym & n°	PeerAssist
Full title	A P2P platform supporting virtual communities to assist independent living of senior citizens
Budget	30 months
Contact	Lazaros Merakos xenakis@di.uoa.gr

Project acronym & n°	SeniorChanel
Full title	An Interactive Digital TV Channel for Promoting Social Interaction amongst Elderly People
Budget	36 months
Contact	Yolanda Hernandez Yhernandez@indra.es

Project acronym & n°	Seniorengage
Full title	Virtual network to empower the integration of senior into an active community in the post retirement
Budget	24 months
Contact	Albert Nieto albert.nieto@cric.cat

Project acronym & n°	SoMedAll
Full title	Social Media for All elderly people
Budget	24 months
Contact	Tuula Petakoski-Hult Tuula.petakoski-hult@vtt.fi

Project acronym & n°	TRAINUTRI
Full title	TRAINUTRI
Budget	24 months
Contact	Inma Luengo Inmaculada.luengo@planetmedia.es

Project acronym & n°	V2me
Full title	Virtual Coach reaches out “to me”
Budget	36 months
Contact	Reiner Wichert Reiner.wichert@igd.fraunhofer.de

AAL JP National Contact Points (NCPs)

	Country	Organisation	Person	Contact details
	Austria	FFG	Gerda Geyer	+43 (0) 57755 4205 gerda.geyer@ffg.at
	Belgium (Flanders only)	IWT	Frederik De Vusser	+32 2 4324298 FDV@iwt.be
	Cyprus	Research Promotion Foundation	Iria Loucaidou	+357 22205026 iloucaidou@research.org.cy
	Denmark	Danish Agency for Science, Technology and Innovation	David Grønbæk	+ 45 3544 6233 dagr@fi.dk
	Finland	TEKES	Pekka Kahri	+358 10 60 55684 pekka.kahri@tekes.fi
	Finland	Nordic Healthcare Group	Anne Kaarnasaari	+358 40 7235219 anne.kaarnasaari@nhg.fi
	France	Agence Nationale de la Recherche	Jean Yves Boire	+33 1 78098029 jean-yves.boire@agencerecherche.fr
	France	Agence Nationale de la Recherche	Nakita Vodjdani	+33 1 78098013 nakita.vodjdani@agencerecherche.fr
	Germany	VDI/VDE Innovation + Technik GmbH	Hartmut Strese	+49 30 310078-204 strese@vdivde-it.de
	Germany (for call 3)	VDI/VDE Innovation + Technik GmbH	Axel Sigmund	+49 30 310078-280 asigmund@vdivde-it.de
	Greece	Ministry of Development	Chrysoula Diamanti	+30 210 7458094 cdiama@gsrt.gr
	Hungary	National Office for Research and Technology	David Pap	+36 1 484 2574 David.Pap@nkth.gov.hu
	Ireland	Enterprise Ireland	Gerard Butler	+353 1 727 2738 Gerard.Butler@enterprise-ireland.com
	Israel	Israel-Europe R&D Directorate for FP7	Hadas Daar	+972-3-511 8123 hadas@iserd.org.il
	Italy	Ministry of University and Research	Luigi Lombardi	+39 06 9772 6469 luigi.lombardi@miur.it
	Italy	CNR DET	Vincenzo delle Site	+39 06 49932698 vincenzo.dellesite@cnr.it
	Luxembourg	LUXINNOVATION (private sector)	Jean-Michel Ludwig	+352 43 62 63 – 1 Jean-Michel.Ludwig@luxinnovation.lu
	Luxembourg	Fonds National de la Recherche (public sector)	Andreea Monnat	+352 261925-53 andreea.monnat@fnr.lu
	The Netherlands	ZonMW	Geja Langerveld	+31 703495 158 langerveld@zonmw.nl
	Norway	Research Council of Norway, IT Funk programme	Maja Arnestad	+47 22444023+47 92217212 maja.arnestad@arnestad.no
	Norway	Research Council of Norway	Tron Espeli	+47 2203 7000 te@rcn.no
	Poland	The National Centre for Research and Development	Pardyak Jacek	+48 515 061 525 j.pardyak@ncbir.pl
	Portugal	Agency for the Knowledge Society (UMIC)	Bruno Fragoso	+351 211 119600 bruno.fragoso@umic.pt
	Romania	National Center for Programme Management	Adrian Stoica	+40 21 311 59 92 adrian_stoica@cnmp.ro
	Slovenia	Ministry of Higher Education, Science and Technology	Natasa Biadov	+386 1 478 4773 natasa.biadov@gov.si
	Spain	Ministerio de Industria, Turismo y Comercio	Miguel Sánchez Dominguez	+34 91 346 27 99 MSANCHEZDO@mityc.es
	Spain	Instituto de Salud Carlos III	Maria Druet	+34 9182 22530 mdruet@isciii.es
	Sweden	Vinnova	Monica Winge	+46 8 4733095 Monica.Winge@VINNOVA.se
	United Kingdom	Technology Strategy Board	Graham Mobbs	+44 1793 442 763 graham.mobbs@tsb.gov.uk

	Until the joining to the AAL Association, Switzerland participates in the AAL Joint Programme without benefiting from EC co-funding.			
	Switzerland	Federal Office for Professional Education and Technology (OPET)	Daniel Egloff	+41 31 322 8415 daniel.egloff@bbt.admin.ch

The Central Management Unit (CMU)
Ambient Assisted Living Joint Programme
Rue de Luxembourg 3, 2nd floor
B-1000 Brussels
Belgium

Phone +32 (0)2 219 92 25

Team-email: CMU@aal-europe.eu
Website: www.aal-europe.eu