AMBIENT ASSISTED LIVING JOINT PROGRAMME AAL JP: THE FIRST CALL FOR PROPOSALS AAL-2008-1

The first call aimed at launching European collaborative projects providing innovative ICT based solutions for elderly persons with identified risk factors and/or chronic conditions. The call envisaged the development of new solutions with a holistic approach, which includes prevention, management, support services and the social and socio-economic environment related to chronic conditions.

Funded projects must have a clear European dimension with high relevance for and maximum impact on the development of ICT. The call was published on 25 April 2008 and closed on 21 August 2008.

This list gives an overview on all 23 projects that are funded under the first call. All projects started in 2009 and run between 30 and 36 months.

Please visit www.aal-europe.eu to learn more details and to catch the latest information on the projects.

a^2e^2	Total Funding: € 2.6 million
Adaptive Ambient Empowerment of the Elderly Coordinator: Ute Ritterfeld, University of Amsterdam, VUA (NL) Partners: Amsta (NL), Hospital IT AS (NO), VTT Technical Research Centre of Finland (FI), Mawell Ltd (FI)	
a^2e^2 stands for an innovative ICT solution designed to prevent or/and manage elderly individuals' chronic diseases through an increase in physical activity, resulting in better physical and mental health, ultimately improving the quality of life of its users.	

AGNES	Total funding: € 2.6 million
User-Sensitive Home-based Systems for Successful Ageing in a Networked Society Coordinator: John Waterworth, Umeå University (SE) Partners: CanControls (DE), Research and Education Laboratory in Information Technologies-Athens Information Technology (GR), Graz University of Technology (AT), Universidad Nacional de Educación a Distancia (ES), ModernFamilies (AT), KMOP (EL), Onda Communication S.p.A. (IT), Fundacion Instituto Gerontologico Matía (ES), Skellefteå Kommun (SE)	
The vision is to provide a user-sensitive ICT-based home environment that supports a person-centric care process by detecting, communicating, and meaningfully responding to relevant states, situations, and activities of the elderly person with regard to mild cognitive impairment or dementia.	

ALADDIN	Total funding: € 1.4 million

A Technology Platform for the Assisted Living of Dementia Elderly Individuals and their Carers
Coordinator: Maria Haritou, NTUA (GR)
Partners: Aethia (IT), ATOS Origin (ES), Badalona Serveis Assistencials (ES), Psychiatric Hospital Of Attica (EL), Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V. (DE), Institute of Communication & Computer Systems (EL), The National Hospital for Neurology & Neurosurgery (UK), Universita di Bologna (IT)

The aim of the project is to utilise state-of-the-art in ICT in order to develop an integrated solution for the self-management of dementia patients, and develop innovative tools to support this procedure. This solution can be conceived as an integrated platform enabling distant monitoring of patient status and facilitating personalised intervention and adaptive care.

AMICA	Total Funding: € 1.8 Million

Autonomy, Motivation & Individual Self-Management for COPD patients
Coordinator: Luis Felipe Crespo, Universidad de Cádiz (ES)
Partners: Foundation for Biomedical Research Management of Cadiz (ES), Forschungszentrum Informatik (DE), Institute of Communication and Computer Systems (EL), Innovaciones Sociosanitarias S.L. (ES), MSC Gleichmann (ES), Vitaphone GmbH (DE)

AMICA aims at providing medical management and medical care to patients suffering from Chronic Obstructive Pulmonary Disease (COPD) and to address these challenges by developing and assessing long-term COPD management solutions based on innovative Information and Communication Technologies.

BEDMOND	Total Funding: € 1.3 Million

Behaviour Pattern Based Assistant for Early Detection and Management Of Neurodegenerative Diseases
Coordinator: Alberto Martínez, Fundación ROBOTIKER (ES)
Partners: AIT Austrian Institute of Technology GmbH (AT), Center for Usability Research and Engineering (AT), Fundación Instituto Gerontológico Matía (ES), Meticube - Sistemas de Informação, Comunicação e Multimedia, Lda. (PT), Ibernex Ingeniería (ES)

BEDMOND is an assistant for the health professional, a daily behaviour information provider to early diagnose mild cognitive impairment (MCI) stages as a first step of neurodegenerative diseases, focused in elderly people while living at home.

CAPMOUSE	Total Funding: € 1.3 million

Development of a Non-Invasive Capacitive Sensor Oral Mouse Interface for the Disabled Elderly
Coordinator: Tomas Brusell, Brusell Dental AS (NO)
Partners: HMC International NV (BE), Pensionärernas Riksorganisation (SE), Lots Design (SE), Stinct (SE)

With a non-invasive modus operandi, CAP MOUSE will use external capacitive sensors mounted on a CAP MOUSE headset to scan tongue movement and feed the signal into a processing unit that extracts and translates features from the signal into e.g. mouse clicks and commands of the integrated Mobile Device, thereby replacing the keyboard, the remote control and other electronic devices.

CARE	Total Funding: € 1.7 million

Safe Private Homes for Elderly Persons
Coordinator: Ahmed Nabil Belbachir, AIT Austrian Institute of Technology GmbH (AT)
Partners: Budapest University of Technology and Economics, Biomedical Engineering Knowledge Centre (HU), Oy Exrei Ab (FI), SensoCube GmbH (DE), Senioren Wohnpark Weser GmbH (DE), Yrjö ja Hanna Ltd (FI)

CARE targets the automated recognition and alarming of critical situations (like fall detection) using optical 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.

CCE	Total Funding: € 2.2 million

Connected Care for Elderly Persons Suffering from Dementia
Coordinator: Dr. Ranjit Bassi, Building Research Establishment (UK)
Partners: Budapest University of Technology and Economics, Biomedical Engineering Knowledge Centre (HU), Building Research Establishment (UK), Centrihealth (UK), Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V. (DE), Hereward College (UK), Innomed Medical Inc. (HU), MedCom GmbH (DE), Hungarian Association of Home Care and Hospice (HU), Philips (NL), Peverel (UK), User Interface Design GmbH (DE)

The project supports the development of an open, standardised, integrated European platform to deliver connected ICT-based assistive living solutions for the elderly.

DOMEO	Total Funding: € 2.0 million

Domestic robot for Elderly Assistance
Coordinator: Vincent Dupourque, Robosoft (FR)
Partners: Université Pierre et Marie Curie – Paris 6 (FR), Centre Hospitalier Universitaire de Toulouse (FR), Országos Orvosi Rehabilitációs Intézet / National Institute for Medical Rehabilitation (HU), Vienna University of Technology (AT), Budapest University of Technology and Economics (HU), Meditech (HU), Thales Alenia Space (FR)

The project will design and demonstrate the technical efficiency and the medical relevance of an open integration platform for eldercare robots configuration and deployment in real-world environment and for everyday life requirements.

eCAALYX	Total Funding: € 2.7 million

Enhanced Complete Ambient Assisted Experiment
Coordinator: Mª Carmen Margelí, CETEMMSA (ES)
Partners: Telefónica Investigación y Desarrollo (ES), Instituto de Engenharia de Sistemas e Computadores do Porto (PT), University of Plymouth Enterprise Ltd (UK), University of Limerick (IE), Fundació Hospital Comarcal Sant Antoni Abat (ES), Fraunhofer Portugal (PT), Corscience GmbH & Co KG (DE), Ev. Krankenhaus Witten GmbH (DE)

eCAALYX will develop an efficient AAL solution for several chronic conditions that can provide reliable long-term and maintenance-free operation in non-technical environments, thus, ready for real-world deployment.

EMOTIONAAL	Total Funding: € 2.7 million

The Emotional Village: Integrated Preventive AAL Concept For the Rural Aging Society in Europe
Coordinator: Dr. Hans-Otto Maier, BBRAUN Melsungen AG (DE)
Partners: Opsolution NanoPhotonics GmbH (DE), German Retail Federation/ EHV Hesse-North e.V. (DE), University of Marburg (DE), University of Kassel (DE), Diaconia University of Applied Sciences (FI), Vitaphone GmbH (AT), German Aerospace Centre (DE), Protestant University of Applied Sciences (DE), Activesoft LTD (FI)

EMOTIONAAL specifically targets at elderly persons living in rural areas and offers them an integrated seamless solution including social services and new technologies to support self care, prevention and assistance to carry out daily activities, health and activity monitoring and enhances safety and security.

H@H	Total Funding: € 1.4 million

Health@Home
Coordinator: Luca Fanucci, Consorzio Pisa Ricerce (IT)
Partners: Caen Aurelia Space (IT), Caribel Programmazione Srl (IT), Centro Andaluz de Innovación y Tecnologías de la Información y las Comunicaciones (ES), Consorzio Pisa Ricerche (IT), Fondazione Gabriele Monasterio (IT), Mediasoft Ltd (SI), Hospitales Universitarios "Virgen del Rocío" (ES), Zdravstveni dom Koper (SI)

The H@H addresses elderly citizens affected by Chronic Heart Failure (CHF), providing them with wearable sensor devices for monitoring of cardiovascular and respiratory parameters and, at the same time, enabling the medical staff to remotely supervise their situations and taking actions by involving public/private healthcare organizations.

Happy Ageing	Total Funding: € 0.9 million

A Home Based Approach to the Years of Ageing
Coordinator: Fiorella Marcellini, Istituto Nazionale di Riposo e cura per Anziani V.E. II (IT)
Partners: Fundació Privada Cetemmsa (ES), Speed Automazione Srl (IT), Global Security Intelligence Limited (UK), AB.ACUS SRL (IT), Institute of Sociology, Hungarian Academy of Sciences (HU), The Association of Catholic Organisations of Senior Citizens in the Netherlands (NL)

The HAPPY AGEING project approaches main limitations due to chronic diseases, low vision or malnutrition and dehydration and manages the individual needs of dietary control, safety and wellbeing. The HAPPY AGEING system will be composed of three modules, including a lifestyle monitor for recording main activities, a navigation assistant to support user's mobility in close environment and a personal assistant to support performing distinct actions.

HELP	Total Funding: € 2.5 million

Home-based Empowered Living for Parkinson's Disease Patients
Coordinator: Luis Pablo del Arbol Perez, Telefonica Investigacion y Desarrollo (ES)
Partners: Hahn-Schickard-Gesellschaft für angewandte Forschung e.V. (DE), Nevet Ltd (IL), Mobile Solution Group GmbH (DE), SALIWELL Ltd (IL), Telefonica Investigacion y Desarrollo Sociedad Anonima Unipersonal (ES), Telecom Italia S.p.A. (IT), University and Hospital of Palermo (IT)

The project integrates a complex system that dynamically monitors and treats Parkinson's Disease patients. The system comprises a non-invasive intra-oral drug delivery device, a pump to deliver rescue medication, a PAN (Personal Area Network) to gather user's environment information, a telecommunication and services infrastructure to transfer information between the user and an automated system and a remote point-of-care unit to supervise the patients.

HERA	Total Funding: € 1.2 million

Home Services for Specialised Elderly Assisted Living
Coordinator: Heidrun Häfele, Telekom Austria TA AG (AT)
Partners: Alcatel Lucent Deutschland AG (DE), Forschungsinstitut des Roten Kreuzes (AT), DIAGNOSTIC AND THERAPEUTIC CENTER OF ATHENS- "HYGEIA" SOCIETE ANONYME (GR), Paris Descartes University (FR), SingularLogic S.A (GR), SOLINET GmbH Telecommunications (DE)

The HERA project aims at providing a platform with cost-effective specialised assisted living services for the elderly people suffering from mild Alzheimer or cardiovascular diseases with identified risk factors, which will significantly improve the quality of their home life, extend its duration and at the same time reinforce social networking.

HMFM	Total Funding: € 1.5 million

Hear Me Feel Me - Compensating for Eyesight with Mobile Technology
Coordinator: Minna Isomursu, Technical Research Centre of Finland (FI)
Partners: Fundación ROBOTIKER (ES), Organización Nacional de Ciegos Españoles (ES), Nokia Corporation (FI), ToP Tunniste Oy (FI), Caritas Foundation (FI), Finnish Federation of the Visually Impaired (FI), Oulun 6. Joutsen apteekki (FI), National Center for Scientific Research "Demokritos" (GR)

The HMFM project explores services related to medication and medicine related information and services, and to health monitoring and diet information. Enabling technologies for the services will be mobile devices and near field communication (NFC) technology.

HOPE	Total Funding: € 1.1 million

Smart Home for Elderly People
Coordinator: Dimitrios Kilias, RTEL SA (GR)
Partners: Unita Operativa Geriatria & Laboratorio di Recerca Gerontologia-Geriatria - IRCCS Casa Sollievo della Sofferenza, San Giovanni Rotondo (IT), CETEMMSA Technology Centre (ES), Andalusian Centre of Innovation, Information and Communication Technologies (CITIC Foundation) (ES), KMOP Organization (GR), Integrated Information systems SA (GR), TRACS SRL (IT), FORUS SRL (IT)

The Hope project addresses elderly people that suffer from Alzheimer's disease to achieve a richer lifestyle. An ICT system will enable persons to perform activities they were not able to do before and which are important for their daily personal life. The proposed system provides a basis for integrating further services, e.g. control of the home environment.

IS-ACTIVE	Total Funding: € 1.3 million

Inertial Sensing Systems for Advanced Chronic Condition Monitoring and Risk Prevention
Coordinator: Paul Havinga, University of Twente, CTIT (NL)
Partners: University Hospital Elias (RO), Inertia Technology (NL), Northern Research Institute Tromsø (NO), Norwegian Centre for Telemedicine, University Hospital of North Norway (NO), PROSYS PC (RO), Roessingh Research & Development (NL)

The IS-ACTIVE project emphasises the role of the home as care environment, by providing real-time support to patients in order to monitor, self-manage and improve their physical condition according to their specific situation. The project addresses all development phases of a prototype wireless sensing platform, from hardware platforms and software packages to algorithms and user interfacing and aims to introduce the platform 2 years after the project end.

PAMAP	Total Funding: € 1.8 million

Physical Activity Monitoring for Aging People
Coordinator: Didier Stricker, Deutsches Forschungszentrum für Künstliche Intelligenz GmbH (DE)
Partners: Foundation Alfred de Rothschild (FR), Intracom Telecom S.A. (EL), Trivisio Prototyping GmbH (DE), Université de Technologie de Compiègne (FR)

PAMAP will develop an unobtrusive and fully mobile system that enables the accurate monitoring of the physical activities of aging people. The system will be based on a set of tiny MEMS sensor units and dedicated software for professional and private use. It will rely on a sounded bio-mechanical model of the human body, measure accurately the motions and efforts of the upper and lower limbs, thanks to an appropriate parameterization.

REMOTE	Total Funding: € 2.2 million

Remote Health and Social Care for Independent Living of Isolated Elderly with Chronic Conditions

Coordinator: María García Robledo, SIEMENS S.A. (ES)

Partners: Fraunhofer Gesellschaft zur Förderung der angewandten Forschung e.V. (DE), Fundación para la Investigación Médica Aplicada (ES), Foundation for Research and Technology - Hellas (EL), MEDEA SRL (IT), Netscouts gemeinnuetzige GmbH (DE), Norwegian Centre for Telemedicine (NO), Ortholine LTD (IS), Saliwell Ltd. (IS), TSB Soluciones S.A. (ES), Universidad Politecnica de Madrid (ES)

REMOTE will advance the Software Architecture in fields of tele-healthcare by enhancing the elderly's home with audio-visual, sensor/motoric monitoring and automation abilities to trace vital signs, activity, behaviour and health condition, and detect risks and critical situations, as well as provide, effective and efficient support at home.

RGS	Total Funding: € 1.8 million

Rehabilitation Gaming System

Coordinator: Dr. Paul Verschure, Universitat Pompeu Fabra (ES)

Partners: Fundación Privada Tic I Salut (ES), Guger Technologies OEG (AT), University Hospital Düsseldorf, Heinrich-Heine-Universität Düsseldorf (DE), Hospital del Mar i de la Esperança (ES), Hospital Vall d'Hebron (ES), Tyromotion GmbH (AT)

The Rehabilitation Gaming System consortium will develop and test a virtual reality based system that will allow an elderly person who suffered a stroke, to take advantage of a novel ICT based product to manage their chronic condition. RGS deploys an individualized and specific deficit oriented training that combines movement execution with the observation of a correlated action by virtual limbs that are displayed in a first-person perspective.

ROSETTA	Total Funding: € 2.3 million

Guidance and Awareness Services for Independent Living

Coordinator: Irek Karkowski, TNO Defence, Security and Safety (NL)

Partners: Avics B.V. (NL), CPS Europe BV (NL), EATON ELECTRIC bv (NL), Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V. - Institute ESE (DE), I+ S.r.l. (IT), Landsbond Christelijke Mutualiteiten (BE), Novay (NL), TNO Defence, Security and Safety (NL), Vilans (NL), VU medisch centrum (EMGO Instituut) (NL), Westpfalz-Klinikum GmbH (DE), Stichting Zorgpalet Baarn-Soest (NL), CIBEK technology + trading GmbH (DE)

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

SOFTCARE	Total Funding: € 0.7 million
Kit for Elderly Behaviour Monitoring by Localisation Recognition and Remote Sensoring Coordinator: Irene Larroy, Centre de Recerca i Investigació de Catalunya S.A. (ES) Partners: Capex Health Ltd. (UK), Forschungsinstitut des Wiener Roten Kreuzes (AT), Ceit Raltec (AT), Meshworks Wireless Ltd. (FI)	
The proposed SOFTCARE technology will use behavioural patterns recognition and ZIGBEE sensing nodes to create an integral system for home monitoring which will greatly expand upon existing home-based health monitoring system, as it will take into account more than one chronic condition.	

Statistics of the first AAL Call

The high participation of commercial partners and user organisations in call 1 fully meets the programme's objectives.

Participating Organizations
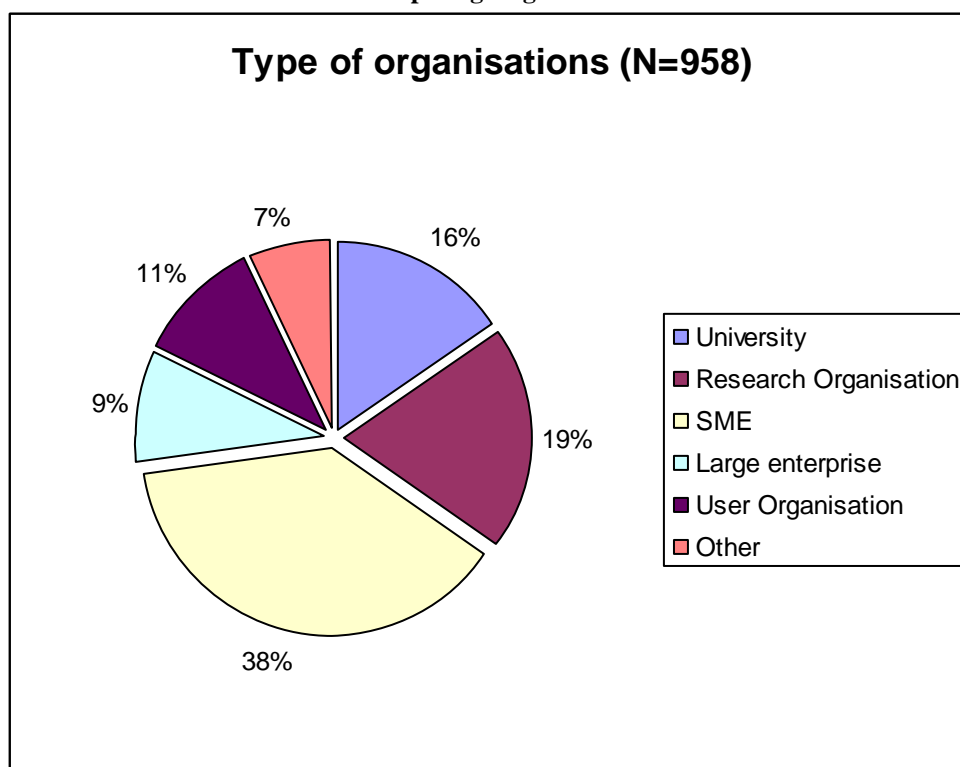
The first call for proposals of the AAL JP was well accepted by the AAL community: 117 transnational project proposals involving 958 organisations of all 23 AAL partner states were received.

Number of Partners per Country