

Situated Adaptive Guidance for the Mobile Elderly - The *MobileSage* project -



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Mobile Sage

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Project description

Project AAL-2010-3050

<https://mobilesage.eu>

Project duration: 2011-2013

Project funding:

- AAL Joint Programme,
- Spanish Government
- Spanish Ministry of Industry, Energy and Tourism

Budget: 2 446 402 Euro



Partners:

Norwegian Computing Center (Coordinator) • Norway

Seniornett • Norway

TeamNet • Romania

University of Ulster • UK

Ingeneria & Soluciones • Spain

Telefonica Investigación y Desarrollo • Spain

Ruter • Norway

Ana Aslan International Foundation • Romania

Project Philosophy

- ❖ The senior citizens of nowadays' society
 - live longer,
 - are more independent, active and
 - more demanding customers than ever before.

- ❖ AAL applications are user-friendly and personalized ICT services able to support old people mobility and active life despite their various impairments.

- ❖ These innovative services:
 - may reduce the burden of family members or care persons,
 - may improve the inclusion of the elderly in the self-serve information society,
 - may significantly reduce the long term care costs.



Project's general objective

To contribute to the development of smart technology required by the actually evolving “self-serve” society.

Specific objective

The elaboration of a personalized IT&C application installed on a specially created mobile phone able to:

- improve the indoor and outdoor (traveling) mobility of old people,
- support the fulfillment of the activities of daily living,
- provide “help on demand” services for hurdling different domestic or traveling challenges.



The innovative features:

- a “personal assistant” component installed on the smart MobileSage phone, capable of providing help-on-demand support based on personalized, multimodal instructions.
- the capability to hold and retrieve helping solutions generated by the user himself or the caregiver.



The expected benefits for different end-users:

- The improvement of **primary end-users** capabilities for:
 - solving different activities of daily living
 - using different domestic devices and equipments
 - independently living, grace to “help for self-helping” algorithms and stimulation of own problem solving skills
- The reduction of **secondary end-users** burden (family and caregivers)
- The ease of **tertiary end-users** tasks (specific NGOs, health services providers, Business Intelligence actors, etc.) dealing with:
 - teaching digital literacy to the elderly,
 - prioritization of carrying resources.



The expected benefits for the society:

- The outcomes of MobileSage project will bring benefits for the scientific and technological community
- An improved quality of life for the aged population segment
- An extended duration of the stay at home for elderly people - in their domestic, beneficial environment, for as long as possible, securely and at the same time independently and socially inserted
- A significant reduction of long-term care costs



Intermediate results / outcomes

of the MobileSage project



- The Kick-off meeting – September 6-7th , 2011, Oslo
- The establishment of the target group (“Focus Group”) – old people (aged 65+) with compensated visual and/or hearing dysfunctions, as well as people with mild to moderate cognitive dysfunctions and/or depression kept under the specific medication
- The establishment of the 3 National Pilots for the MobileSage smart phone design, evaluation and validation (Norway, Romania, Spain)
- The Workshop “Medical aspects in MobileSage project”, Bucharest, November 3-4th , 2011

- The elaboration of “Scenarios” for end-users needs detection and analysis
- The investigation of end-users specific needs in the three partner countries
- User needs analysis and elaboration of Focus Group Report
- The elaboration of “Persona” skeletons
- The elaboration of User Requirements Specification (deliverable)



- The elaboration of API and Functional Specification for the function of services management (deliverable)
- System architecture configuration
- Elaboration of project specific ethical provisions, and of the Ethics Manual to be used during the work sessions with the voluntary end-users enrolled in the Focus Group
- Elaboration of MobileSage Project Guidelines
- Elaboration of the first variant of Exploitation and Dissemination Plan

The contributions of the Romanian medical partner

** Ana Aslan International Foundation (AAIF)**

In the MobileSage Project AAIF is:

- **The Medical partner**
- **The National Pilot** for MobileSage platform testing and validation, in cooperation with the 16 voluntary end-users it enrolled in the Romanian Focus Group

The relevant areas of AAIF's expertise for this project are:

- Holistic-integrative health state evaluation of the elderly
- Evaluation, treatment and monitoring the cognitive decline
- Integrated care
- Ethical aspects of the elderly acute and long-term care

- AAIF is an active national and international promoter of research and applications in the field of AAL technology for seniors

- AAIF acquired significant expertise in AAL technology for elderly, due to its previous partnerships:
 - SHARE-it (2006-2009)
 - K4Care (2006-2009)

 - On going projects:
 - MobileSage (2011-2013)
 - AgingWell (2012-2014)
 - MobileOld (2012-2014)
 - Confidence(2012-2014)

AAIF- fulfilled the following activities:

- **Co-organizer of the Workshop titled as “Medical aspects of MobileSage Project”, accomplished in Bucharest - 2-4.11.2011 under the aegis of MobileSage Consortium and in direct cooperation with the technical Romanian partner “TeamNet “– Bucharest.**



- **Establishment of the Romanian target group (“Focus Group”) as component of the Romanian Pilot , which enrolled:**
 - 8 males and women aged 65 and over, with visual and/or auditory compensated dysfunctions
 - 8 males and women aged 65 and over, with mild to moderate cognitive dysfunctions and/or depression under treatment

- **The voluntary end-users’ selection protocol (inclusion/exclusion criteria)**

- **Defining the suitable battery of tests for cognitive evaluation, in accordance with the needs of the project**

- **Elaboration of the “Scenarios”** required by voluntary end-users needs evaluation and the configuration of MobileSage smart phone functions.
- **“Scenarios” adaptation** to the in Romanian infrastructure and Romanian translation

- **voluntary end-users Evaluation-Interview Protocol** necessary to detect those needs and preferences able to be covered by the MobileSage smart phone .
- **ethical rules and legality**
- **Fulfillment of Romanian “Focus Group” evaluation**
the Romanian Focus Group Report related to end-users needs and preferences.

- Further contributions to various deliverables:
 - **“Persona” skeletons**
 - **Specification of primary end-users needs**
 - **Project’s ethical guideline and the ethical manual**
 - The first draft of the **Dissemination and Exploitation Plan**

- Activities related to **Project promotion and dissemination:**
 - the aims and objectives of MobileSage project were pointed out as a golden answer for the long-term geriatric assistance, within the “BRAINAGING” project-POSDRU 81/3.2/S/46975
 - This is a national, strategic educational program which trains Doctors from 7 specialties (Neurology, Psychiatry, Geriatrics, Molecular Medicine, Imagery, Family Medicine, Anesthesiology) and General Nurses into a new integrated curricula on brain aging
 - Until now 4000 persons attended the courses, in 5 out of 8 national euro regions to be covered by mid of 2013



Thank you for your attention !

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