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

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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 smartphone.

- 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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