



*ICT solutions for independent living with cognitive impairment*

## **Press Dossier – English Version**

June 2015



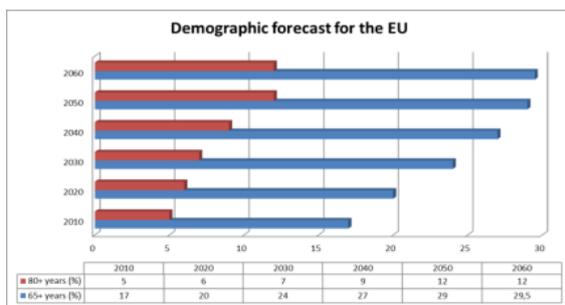
*This project has received funding from the European Union's Horizon 2020 research and innovation programme under Grant Agreement 643566*

## EHCObUTLER PROJECT DEVELOPS AN E-HEALTH PLATFORM WHICH SLOWS COGNITIVE DECLINE IN THE OLDER PEOPLE

- ehcoBUTLER is a patient-centric health and social care ICT solution that will allow patients themselves, their families and caregivers to interpret and enhance patient's psychological status and lifestyle.
- ehcoBUTLER is a 3 years project with €3.6 million of budget, co-funded by European Commission with €2.9 million, to be carried out by a multinational consortium composed of 13 members.
- During the project frame, the ehcoBUTLER platform will be tested for 20 months in 5 EU28 Member States (The Netherlands, Spain, Greece, France, Italy), 1 Candidate Country (Serbia) and 1 Associated Country (Israel), with more than 1,000 patients involved.
- Expected impacts include: an increase in the Quality of Life of the older people; a reduction of the EU28 healthcare systems cost and an improvement of their efficiency; a self-sustainable health and social care solution easily exploitable in EU28 MSs healthcare systems.

### INTRODUCTION

Europe is ageing with more than 190 million citizens aged 50+, which represent 37% of the today population. This number is expected to significantly grow during the next decades. A common characteristic of elders is the frequent occurrence of either physical or mild cognitive impairments. This situation brings new challenges in how to improve the independence and quality of life of older people and promote their good health in different ways.



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### THE CHALLENGE

ehcoBUTLER addresses this challenge by developing an innovative ICT technological platform with both leisure and care apps. ehcoBUTLER platform enables information sharing about elder's physical, social and mental health status with family members, close relatives, caregivers and even social care professionals, developing unobtrusive monitoring system and offering to the elders, their parents and health and social care actors a user friendly interface, able to recognize older individual's psychological status and lifestyle.

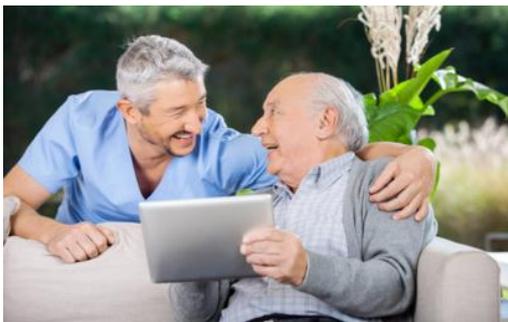


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## OBJECTIVES

The overall objective of the project is to achieve an improvement in the health and social care of older people with cognitive impairments.

In fact, elder people suffering from cognitive decline often are not able to report consistently on their emotional and physical wellbeing, or keep track of their medication, treatment, appointments with the care and cure professionals and caring family, friends and neighbours. The ICT-platform aims to fill that gap.



*ehcoBUTLER platform enables information sharing about elder's physical, social and mental health status with family members, close relatives, caregivers and social care professionals*

## COMPONENTS OF THE EHCObUTLER PLATFORM

The ehcoBUTLER platform will be developed as a modular application based on two groups of modules, the *Leisure Modules* (Friends, The Book of Life, Videoconference, My Memories...) and the *Care Modules* (Nutritional Recommendations, Cognitive Therapies...)



*ehcoBUTLER will provide a Market module to download new apps created by third-parties*

These modules are accompanied by horizontal modules such as the *Agenda*, which will support the therapeutic modules, the *Market*, which will allow users to download new applications made by third-parties to be incorporated to the ehcoBUTLER platform, a *Research Module*, that will allow specialists to design and implement several predictive models to detect patterns on user's evolution, and a *Management and Follow-Up* module which will control the status of user and manage their information.

## USABILITY ASSESMENTS

The development and implementation of the ehcoBUTLER solution will take three years, from the 1<sup>st</sup> of January 2015 till the end of 2017.

A key factor for the success of the project is the orientation to usability. For these users, issues of usability go beyond making a system easy to use as users should learn how to use the system while simultaneously learning what the system can do. Because of this since April 2015 Usability Assessments with final users from different countries are being carried out in order to test the design approaches of the system.



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The early prototype of the ehcoBUTLER platform which is being developed and which is expected by the end of 2015, will show the socio-economic benefits and potential ROI of the solution in 7 countries (The Netherlands, Spain, Greece, France, Italy, Serbia and Israel). ehcoBUTLER pilots will involve citizens experiencing a slight decline in cognitive abilities, but still in relatively good health and able to perform activities of daily living independently (they live at home and they can use ICT-tools). Overall testing phase will have a duration of 20 months and it will involve more than 1,000 users, applying the tool to four different business models: Public Care Services, Elder Care Centers Services, Home Care Services and Telecare & TeleHealth Services.

## EXPECTED IMPACTS

ehcoBUTLER expected impacts are:

- 5% increase of Quality of Life of the older people delaying the advancement of cognitive diseases, promoting their wellbeing and improving their emotional state;
- A significant reduction of the healthcare system costs and an improvement of care process efficiency;
- A self-sustainable health and social care ICT solution and service model with and high scalability potential across Europe.



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## THE EHCObUTLER CONSORTIUM

ehcoBUTLER will be carried out by a consortium led by the multinational consulting firm Everis. The project will be developed by a consortium of 13 partners. 10 from 8 EU28 Member States: Everis, CIBER, Telefonica, Fundación INTRAS and Idea SL (Spain); National Foundation for the Elderly (the Netherlands); YourDATA and Aima Napoli Onlus Association (Italy); Mobili (Slovenia); E-Seniors Association (France); VIDAVO (Greece); 1 from a Candidate country (ASISTEL, Serbia) and 1 from an Associated country (Clalit Health Services, Israel).



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## CONSORTIUM PARTNERS INFORMATION

### YOURDATA (ITALY)

YourDATA provides an on-demand and cost effective service of collection, measurement, analysis and evaluation of qualitative information, hardly measurable, by translating them into quantitative and comparable data. Through innovative methods, it delivers a structured and highly professional service of data collection to public and private sector organizations, centres of research, universities, foundations and associations. YourDATA mission is to help its clients to analyse complex phenomena through high quality innovative processes. In addition, its team has a strong expertise in dissemination and exploitation of results activities, crucial in all European projects, and in the Technology Assessment Model analysis, fundamental in research and innovation projects.



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### AIMA NAPOLI ONLUS ASSOCIATION (ITALY)

AIMA was born in Italy in January 1985 and in Campania in January 2000 with AIMA Napoli Onlus, a non-profit association which has as its main objective the improvement of the quality of life of older people healthy and / or suffering from Alzheimer's disease (and related dementias) and their families through a role both political and helpful.

In particular since forever AIMA Napoli Onlus proposed an innovative biopsychosocial model of care: "AIMA...AMIAMOCI" Model, shared by a network of international experts, as part of a process of humanization, and continuity of care. This Model, through appropriate strategies and customized intervention methods, allows the total care of the inseparable dyad "Person with Dementia / Caregiver". "AIMA...AMIAMOCI" is a social network of support and care that works for the realization of some key objectives: the humanization places of care, the prevention and promoting health, fitness and quality of care, the awareness of the political institutions and public opinion against the disease, the formation of formal and informal caregivers, and the strengthening of research.

Among the main services: Regional Listening Center, Casa AIMA, cognitive stimulation and art therapy laboratories, Self Help Groups, Alzheimer Coffee, educational activities.

#### Contact Details

<http://www.aimanapoli.it/mainportal/>



## EVERIS (SPAIN)

everis is a multinational consulting firm providing business and strategy solutions, application development, maintenance, and outsourcing services. Established in 1996, everis has averaged 20% annual growth in revenues and became part of NTT Data in January, 2014.



an NTT DATA Company

Being part of the NTT Data group enables everis to offer a wider range of solutions and services through increased capacity as well as technological, geographical, and financial resources.

everis works with clients in all industries with multi-country teams implementing the best solutions. Since 2010, in the United States, everis has been focused on providing the best value to Banking, Insurance and Health companies as well as Public Institutions.

everis business consulting focuses on industry knowledge, service innovation and specialization.

everis IT Strategy solutions designs and implements technological solutions and manages applications, infrastructures and outsourcing processes. To do this, everis encourages the use of methodologies that ensure quality, production transfers to high-performance centers, and functional and technological specialization.

everis BPO Business Process Outsourcing is focused on the rendering of outsourced business process services. Our customers enjoy greater internal capacity to focus on more value-added functions of their business, increasing service quality control in their associated areas of expertise.

everis outsourcing specializes in strategy, assessing, designing, managing and providing outsourcing services. It brings together experience, recognized market best practices and the tools that address the needs of each client.

everis centers are designed to deliver high levels of efficiency and productivity including capabilities for executing tasks in an industrialized manner (CCMMI). We have a network of offshore high performance centers in Southern Europa and LATAM, providing a credible, scalable and cost effective alternative to Software Factories.

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## CIBER (SPAIN)

CIBER is a Spanish public consortium, whose main purpose is the promotion and protection of health through the development of research, within the following areas of research: Bioengineering, Biomaterials and Nanomedicine (CIBERBBN); Rare Diseases (CIBERER); Respiratory Diseases (CIBERES); Hepatic and Digestive Diseases (CIBEREHD); Epidemiology and Public Health (CIBERESP); Mental Health (CIBERSAM); Diabetes and Associated Metabolic Disorders (CIBERDEM); Physiopathology of Obesity and Nutrition (CIBEROBN). Consortium created and funded by the Instituto de Salud Carlos III in order to promote and cooperate in scientific research, development of knowledge and transfer of it to the society.



The CIBEROBN is a cooperative network formed by 35 groups located in some of the leading research centers in Spain. These groups are structured in eight Research Programs where they develop projects that allow us, through a multidisciplinary work, combine efforts, optimize resources and maximize the knowledge generated to transfer it to clinical practice and ultimately, offer it to the patient and society as a whole.

CIBERObn specific purposes are:

- Carry out joint research, development and innovation in the field of obesity and nutrition
- Contribute to the resolution of health care problems related to this area
- Promote the participation on national research activities and especially those included in the European Framework Programs for R+D+i
- Facilitate the transfer of results of research processes to society and especially to the productive sector
- Promote the dissemination of its activities and the training of researchers in the field of Physiopathology of Obesity and Nutrition

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## TELEFONICA MÓVILES (SPAIN)

Telefónica is one of the world leaders integrated operator in the telecommunication sector, providing communication, information and entertainment solutions, with presence in Europe, America and Asia. It operates in 21 countries. As of the end of 2014, Telefónica's total number of customers amounted to 341 millions. Telefónica spends more 4,800 million euros each year on technological innovation, including nearly 800 million euros on R&D of new products, services and management systems and improvement of existing ones. Telefónica has executed more than 200 projects in 2014 related to social innovation with an overall budget of 432 million euro in five areas of action (Geographic, Finance, Education, Health and Disability) for three segments, the elderly, disabled and base of the pyramid. Telefónica is member of the DJSI, included in the FTSE4Good Index and the most admired telco in Europe and the second worldwide.



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## FUNDACIÓN INTRAS (SPAIN)

INTRAS standing for Research and Treatment in Mental Health aiming to improve the quality of life of people suffering from mental disorders and the elderly. It is composed of 9 centres and over 100 professionals from psychiatric, psychological, social and economic fields who combine research, training and healthcare expertise. INTRAS is managing different services of the Regional Health Service of Castilla-León such as intermediate health services (Day Care Centre, Residential Centre, Psycho-rehabilitation Centre, Labour Rehabilitation Centre) and social services (Supervised Flats, Labour Workshops). INTRAS' approach to Active Ageing, Independent living and to the social-health care of elderly people is cross-disciplinary, holistic and covering a wide range of activities including Neuro-Psychological diagnosis, treatment, intervention, research, technological development, innovation, networking, etc.



INTRAS is a reference in the field of geriatric treatment through cross-disciplinary programs that combine health and social interventions, promoting cognitive rehabilitation from a clinical standpoint and social integration of the elderly from a psychosocial perspective. Through its R&D&I area, INTRAS promotes the development and validation of new technologies to be applied in the field of neuropsychological rehabilitation in order to provide high quality socio-health assistance for older people with Alzheimer and other dementia. GRADIOR® software has been developed by INTRAS for rehabilitation of cognitive functions such as attention, memory, perception, orientation, calculus, etc. It is also useful in the intervention with people with schizophrenia, cerebral paralysis, mental disability and brain injury. Every day, 1700 users develop cognitive stimulation exercises and its spin-off products that are running in more than 400 care centres in Spain.

INTRAS is an active member of relevant European networks in the field such as INTERDEM (Early Detection & Timely Intervention in Dementia), the IAGG (International Association of Gerontology and Geriatrics), MHE (Mental Health Europe) and EPR (European Platform for Rehabilitation).



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**NATIONAL FOUNDATION FOR THE ELDERLY (THE NETHERLANDS)**

The National Foundation for the Elderly (NFE), is a charity that promotes quality of life for older persons in the Netherlands. The primary focus of NFE is on preventing isolation, reflected by the Forget-Me-Not logo. NFE supports seniors through meaningful projects and services that:



- Improve social inclusion
- Improve active and healthy ageing
- Improve safety and security

The NFE has a large network of activity centers across the Netherlands that organizes activities for seniors that are at risk of exclusion. These activities range from sports, shopping, summer days on the beach, Christmas dinners and knitting clubs, increasing social contacts in a concrete and simple manner.

The NFE promotes actively senior rights and performs social research on important cases related to quality care, senior discrimination, elderly abuse and senior gay rights. It organizes national campaigns and organizes training and networking sessions between care professionals to raise awareness and interchange best practices. The NFE works as a trusted intermediary between private and public services and older persons, helping seniors to find the path towards support and care, creating an extensive knowledge base for research and innovation.

The NFE participates actively in European projects with the main objective to promote elderly wellbeing through ICT.

**Contact Details**

<https://www.ouderenfonds.nl/onze-organisatie/english/>

## MOBILI (SLOVENIA)

Mobili is an innovative high-tech company, a regular member of the Technological park in Ljubljana. Mobili is a developer of enterprising mobile and workstation / server bio-sensor solutions in the field of mobile health, telehealth solutions, AAL, sport and first response tracking.



In project Mobili will expand its Mobilis Framework and InvisibleCare (Seniors related mobile solutions) to additional sensors services, cloud and server services plus additional virtual sensors (algorithms) with wide dissemination of the project results among the target users, target groups and other stakeholders who can derive the most benefit from the results and the experience acquired by the project partners during the lifespan of the project.

Main Contribution: Expertise on apps development for elder users

### Contact Details

<http://www.mobili.si/>

## E-SENIORS ASSOCIATION (FRANCE)

E-Seniors is a non-profit non-governmental organization, founded in 2005 by Monique EPSTEIN, the general manager of the association. E-Seniors aims at fighting e-exclusion by providing access to and training in ICT to seniors and/or disabled people. Its main objectives are:



- Shrinking, and where possible, bridging the digital gap between generations,
- Fighting seniors' isolation,
- Opening new horizons for efficient use of free time.

Since its creation, E-Seniors has provided courses on ICT use for seniors in various public places. The association is constantly opening new locations all over the region in order to provide a "proximity" service that takes into account the rhythm, interests and needs of its potential audience. Through its work with elderly people, the organization also tries to increase awareness about the importance of ICT solutions in everyday life. E-Seniors proposes also interactive gaming activities in residences for elderly, retirement homes and day-care centres. Knowing the challenges faced by seniors, (healthy or dependant ones), E-Seniors invests resources in developing new applications and services to enable independent living as well as helping keep their physical and mental health.

E-Seniors has a substantial experience in European projects related to ICT-tools designed for seniors and for active and healthy ageing.

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## VIDAVO (GREECE)

VIDAVO develops innovative mobile applications, assisting citizens on-the-move and medical professionals to better manage health and wellness. VIDAVO innovates, bringing healthcare via your mobile device! The company addresses health & social care providers, policy makers, insurance companies, ICT companies wishing to differentiate and specialize, patients, telecom operators and any health related stakeholder group. Also it enjoys a strong presence in the research fora targeting health care issues.



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## ASISTEL (SERBIA)

ASISTEL is the first company in Serbia and region that provides the Tele-assistance service to the elder persons and persons with disability who live alone and have a need for the special care and attention, providing the users with organizing and delivering help via telephone.



Through its pioneering work and creating modern and adequate conditions for aid and care of elderly and disabled persons, ASISTEL aspires to contribute modern and effective solutions to the problem of living and aging in Serbia.

Through Tele-assistance ASISTEL organize other services as different kinds of additional help, reminders for medicines or nurse call.

In the end, the aim of ASISTEL to promote Tele-assistance service to get bigger and broader social significance and provide conditions that clients are physically and mentally healthier, that they have to go less to health centers, that they are content and happier and that they enjoy their aging with more dignity and with use of modern technology solutions.

This type of service has a very positive impact on the quality of users' lives.

Ultimate goal is to that based on the experiences of European countries, Tele-assistance and application of new technologies become a part of regular social care service in Serbia.

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## CLALIT (ISRAEL)

Clalit Health Services, established in Israel in 1912, is the second largest non-governmental health service organization in the world. Clalit has over 4 million members (over 54% of Israel's population), including nearly 75% of people over the age of 65 in Israel. Clalit operates over 1400 community clinics and 14 major teaching hospitals, employing 40,000 medical, health and administrative workers. Clalit has achieved the highest results of all Israeli organizations regarding national quality health indicators and has a rich research and development record. Likewise, Clalit is a leader in development and implementation of comprehensive prevention, detection and treatment programs for elderly in the community, including elderly at risk. Clalit leads the country in its award winning web-based services, and has a long-standing professional and organizational infrastructure for establishing and implements policy, training, treatment plans and health education and health promotion focusing on patient empowerment, healthy lifestyles and cultural appropriateness.



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