



DELIVERABLE

D6.9 – Project Media Pack v02

Project Acronym: UNCAP

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Project Title: Ubiquitous iNteroperable Care for Ageing People

Revision: 1.0

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<i>Project co-funded by the the Horizon 2020 Framework Programme of the European Union</i>		
Dissemination Level		
P	Public	x
C	Confidential, only for members of the consortium and the Commission Services	

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1. Revision history and statement of originality

1.1. Revision history

Rev	Date	Author	Organization	Description
0.1	19/02/2016	Leonardo Plategher	TRILOGIS	First draft with addition of the new banner and brochure
0.2	24/02/2016	Irene Facchin	TRILOGIS	Press release
1.0	29/02/2016	Giuseppe Conti	TRILOGIS	Minor revision and quality check

1.2. Statement of originality

This deliverable contains original unpublished work except where clearly indicated otherwise. Acknowledgement of previously published material and of the work of others has been made through appropriate citation, quotation or both.



2. List of references

Number	Full Reference
1	D6.8 – Project Media Pack v01
2	Media pack v01 http://www.uncap.eu/wp-content/uploads/2015/02/deliverables/media_pack.zip



3. Executive Abstract

This document reports the updates made to the media pack during the last period before its first release at month 02.

The changes have affected:

- Update of the brochure: two more pages were added to the brochure which report the description of the pilot sites.
- Creation of a new banner: a new banner was made to report the release of the alpha version of the UNCAP software suite.
- Update of the press release:

The rest of the graphics was not modified and can still be used as is.



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6. Brochure



**Ubiquitous iNteroperable
Care for Ageing People**

www.uncap.eu



Increasingly fast aging population is set to challenge health and care systems. Current care models are proving to be inappropriate and unsustainable. This situation is clearly calling for new care & assistance paradigms.

UNCAP will address such a fast-evolving scenario through the development of an **open, scalable and privacy-savvy ICT infrastructure** designed to help aging people (including those with mild cognitive impairments) live independently and with dignity.


In particular, **UNCAP** will leverage on an **interoperable ecosystem of biosensors and indoor & outdoor localisation solutions** to deliver an infrastructure capable to continuously monitor and assist users in a non-invasive way. Furthermore, **UNCAP** will allow accurate **monitoring of user's state** (physical & cognitive), and also creating a range of brand **new services** designed to stimulate healthier lifestyle and more active aging process.

To this extent, the ultimate goal of **UNCAP** is to extend the duration of **high-quality life** of aging, frail, and cognitive impaired citizens by helping them achieve **higher autonomy, independence, and dignity**.



● Technical partner ● Pilot site

The project is co-financed by the EU through the Horizon 2020 programme, and it involves 23 partners (including several pilot user partners) from 9 European countries (Italy, United Kingdom, Slovenia, Romania, Greece, Germany, Sweden, Spain, Macedonia).



The main goals of UNCAP are:

- 1** **Improve effectiveness of the health care processes recovery** through more effective evaluation processes during the hospital-hospice.
- 2** **Enhance home care treatment and prevention**, in order to delay cognitive impairment of elderly and possibly postpone the recovery.
- 3** **Support more independent living and improve quality of life** of cognitively impaired aging users.



This project has received funding from the European Union's Horizon 2020 research and innovation programme. Specific Challenge 1 (SC1) CONNECTING under grant agreement No 643555.

Figure 1: brochure page 1

The achievements of **UNCAP** will be assessed in the context of **several pilots** located in private homes, rehabilitation centres, daily nursing facilities and houses etc. in various EU countries, with the involvement of a **large number of users and caregivers** (ensuring statistical significance) **within real operational scenarios** for a duration of 12 months.

Indeed, the **technical solutions** will be extensively piloted for a total of 24 months (made of two sets of 12 months), within 14 sites, across six countries, carried on in real operational scenarios (instrumented apartments, nursing homes, elderly care centers and private homes), involving a statistically significant number, almost a thousand, between final users and caregivers, which have been selected for their diversity in order to cover a wide spectrum of practices and care models.

Low-tech informal care (private home) scenario.

Thanks to the use of the UNCAP “starter kit,” made of the UNCAP BOX connected to the TV, an IP camera for video conferencing and video-based tracking of the user, plus a one-year subscription to the UNCAP CLOUD service, patients will be monitored at home.



Moving patients from specialised care facilities to home scenario.

Thanks to the monitoring of patients by the installed UNCAP BOXes, it will be possible to move patients at home and anyhow follow their recovering.

High-tech informal care (private home) or formal care settings (nursing home) scenario.

UNCAP-compatible sensors for measurement of blood glucose and/or blood oxygen levels, and the UNCAP-compatible sensor floor for identifying if someone has fallen, are used for better support assistance at home.



Long Term Care (LTC) scenario.

The UNCAP CLOUD services will allow relatives and medical staff to access and update clinical folder of patients and to monitor their position within the hospice safe area.

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Figure 2: brochure page 2



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The pilot sites

Pilot in Pergine (Italy)

Villa Rosa is a state of the art facility managed by APSS, whose paradigm is the reproduction of daily life in instrumented apartment to assess needs and solution for each single patient. The goal of the pilot is to monitor patients to help them identify the right level of technology to be provided to the patient to bring home. Patients spend one week in the apartment to experiment aid technologies for proving their suitability and utility. The UNCAP BOX will be tested to assess the appropriateness in correspondence of specific patient. Patient and environment will be monitored to measure the level of use of different technologies, the fatigue and stress that their use cause to the patient, the patient acceptability and the cost/utility ratio.

Pilot in Tarzo (Italy)

The UNCAP BOX and App will be used in the common spaces inside the area of the nursing home, in order to monitor the mobility of the patients through use of smart sensors, with data being automatically converted into the results of InterRAI monitoring tests. The patients will experiment automatic guidance within the facility. Family members of some patients will be involved; the already present “family committee” will have be engaged to suggest the best solutions for the integration of the UNCAP technology inside the nursing home. The family committee is already used to monitor their parents’ Individual Plan of Care from home using internet. Also Regione Veneto has provided its adhesion to monitor the project in this case, in order to transfer the results to the home care scenario.

Pilot in Baia Sprie (Romania)

Baia Sprie Elder Nursing Home is a public facility aiming at providing care for 69 elders, some of which with cognitive problems. The nursing home introducing new technologies aiming at improving quality of life of patients. The UNCAP BOX and App will be tested for elders living in the nursing home and elders living at home, helping them carry out their current activities. Patient and environment will be monitored to identify the ways the technology affects their everyday life, both in nursing homes and for patients living at home.

Pilot at Höhenkirchen-S. (Germany)

A large-area SensFloor system will be installed in 10 patient rooms including the bathroom. SensFloor will provide signals when someone is going out of bed and moving around in the room or bathroom. UNCAP will be also used to turn on orientation lights to avoid stumbling in the dark. Events will be notified by UNCAP to nurses when the system identifies that the patient needs help. If a patient falls and lays on the floor a fall alarm will be triggered. Another 10 rooms will be equipped with a SensFloor mat before each bed. UNCAP will turn on orientation light and send alarm to the nurse to indicate that the patient is leaving the bed and possibly in need of help. The efficiency of both systems will be compared rooms without such equipment.


Pilot at Athens (Greece)

The pilot is also supported by Bioclinic Athens, is a large private hospital unit in Athens premises. The participants of the pilot typically suffer from COPD and/or diabetes; they are aged 65+ years old and with limited mobility due to amputations- will be provided with blood glucose and/or blood oxygen sensors, a smartwatch and a tablet. For each user, a specialized doctor will define a timeline of measurements that need to be taken daily and the respective thresholds. The medical team will be alarmed by UNCAP whenever a threshold violation is detected and will also receive an aggregated report to evaluate the patient’s condition. Falls will be automatically detected via a smartwatch.

Pilot in Thessaloniki (Greece)

The AUTH team has some 15 workstations available for trial sites and a central DB with senior data and pilots. Participants in the pilot will be healthy (retired) people aged 65+ at risk of cognitive decline, people with Mild Cognitive impairment or mild dementia. They will be randomised and put into (parameter-based) matched groups of “patients” and “control”. Different exergaming interventions will be designed and trialled out for a specific period of time for various group modifications; the aim will be to investigate if exergames have an effect on the quality of life and their overall cognition independently of the gaming experience. The long-term goal will be to make this dataset a “reference dataset” for the whole region.

www.uncap.eu/pilot-sites



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 643555.

Figure 3: brochure page 3

The pilot sites

Pilot in Maribor (Slovenia)
Elderly Home Danice Vogrinc Maribor is the largest gerontology public facility in well as home care services for elderly people living in their private homes in the area. The pilot will introduce a smart self-monitoring solution that will help ease and motivating a healthy and safe lifestyle of elderly people. Through a simple tablet application, the UNCAP solution will locate elderly users and detect sudden falls, and motivate them to regularly measure biodata using easy-to-use smart sensors (e.g., glucometer, smart scale), take medication and attend scheduled video workouts. In case of alarming data, a concerning fall or unusual location, the application will allow for instant help by alerting designated carers. The elderly user will be able to view data and share them with their care specialist on a consent basis, which will provide means to extended care treatments. Throughout pilot trial, usefulness, adoption and usability of the solution and the sensing devices will be closely monitored.

Pilot in Simleu Silvaniei (Romania)
The Elder Day-care Centre of the municipality of Simleu Silvaniei provides support to elder persons living in their homes, to improve the quality of life. The pilot will target elders frequenting the day-care centre, many of whom suffer from different health problems. UNCAP will be used to monitor their condition, activity, and alert social assistants and family members in case of emergencies. Use of UNCAP BOX will reveal the level of interest users will have for the technology and the ways it helps improve their quality of life. The pilot will also help identify optimal means for the UNCAP BOX to interact with family members and social and medical assistants.

Pilot in health district “Ovest Vicentino” (Italy)
The pilot in the health district “Ovest Vicentino” will involve 3 different nursing homes: 1) “Villa Serena” 2) Casa di Riposo Tassoni and 3) Casa Albergo Parco Fortuna, all coordinated by the public health district USLL. The three facilities host elderly people with cognitive pathologies who need monitoring during the day and often during the night. UNCAP BOX will be installed at the premises and used to support sharing of accurate information about health state of patients between staff of the nursing homes and staff at the hospital at USL. The goal will be to improve quality of care and therapy through access, by medical doctors at the hospital, to constantly updated health data –including historical records- remotely from the hospital. Note: currently communication between staff at nursing homes and doctors occurs via telephone and fax.



Pilot in Skopje (Macedonia)
Nursing Home Terzieva is a private institution for social protection which offers unique and personalized services for the elderly staying there for a longer period of time, in accordance with the EU standards from technological and social point of view. The main goal of the pilot in Terzieva is to monitor the everyday physical activities of patients with type 2 diabetes and to help them by recommending the most suitable physical activities matching their health conditions. In addition they will be monitored for eventual falls that may occur while performing physical activities or due to worsen health conditions. The UNCAP system with an integrated recommendation algorithm and fall detection system will be tested, at different level of its scalability to assess the appropriateness in correspondence of specific patient. Moreover, patients and environment will be monitored to measure the level of use of different technologies, to determine the patient acceptability and the cost/utility ratio.

Pilot in Città della Pieve (Italy)
The UNCAP BOX will be used in the common spaces inside the area of the nursing home, in order to monitor the mobility of the patients, and potentially their location. For example, the patients' mobility will be monitored thanks to smart sensors, and the data would automatically converted into the results of InterRAI tests. In addition, the patients will be able experiment automatic instruments of guidance through the facility.

Baia Sprie



Höhenkirchen-S



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Figure 4: brochure page 4



7. New banner



Figure 5: banner for the alpha release of the software suite