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SENIOR-TV

PROVIDING ICT-BASED FORMAL AND INFORMAL CARE AT HOME

Deliverable D1.1
Requirements V1: Analysis of existing services of formal and informal care

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Requirements V1: Analysis of existing services of formal and informal care

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Version	**Summary**
V0.1	Formal and informal care services in Romania
V0.2	Formal and informal care services in Slovenia
V0.3	Formal and informal care services in Cyprus
V0.4	System and Platform Analysis
V1	Final version

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INTRODUCTION

This deliverable reviews the state-of-the-art of formal and informal care services in Romania, Slovenia and Cyprus (the countries implicating end-users in the SENIOR-TV project) as well as, a system and platform analysis in Spain, putting emphasis on the identification of holistic approaches to the formal and informal care of older adults.

The main objective of this report is to identify synergies and reusing results. D1.1 Requirements V1: Analysis of existing services of formal and informal care will serve the basis of the requirements documents compiled in subsequent months; D1.2 Requirements V2: Gathering and Definition - Informal Care and D1.3 Requirements V3: Gathering and Definition - Formal Care.

Romania

Table 1 outlines the available formal and informal care services in Romania.

Category	Link	Type of Content	Content Quality	Usability	Aspect	Comments
Education	http://www.cursuridecalculatoare.ro/cursuri-pentru-seniori.htm	Information on available senior IT training sessions	3	3	3	
Education	http://gratuitor.ro/curs-it-pentru-seniori/	Information on available senior IT training sessions	3	3	3	
Education	http://www.attitudeconcept.com/dans-seniori/	Information on available courses for seniors: dance, canto etc.	2	2	2	
Entertainment	http://www.quizuri.ro/category/personalitate?ads	Quiz	4	4	4	Login via Facebook
Entertainment	http://teotrandafir.com/testeonline/	Online tests	4	4	3	Requires a lot of reading
Entertainment	http://www.epsihologia.ro/teste-psihologice.html	Psychological tests	4	4	3	Results have to be calculated by the individual administering the test
Entertainment	http://www.e-ziare.ro/	Comprehensive collection of online newspapers and magazines	4	4	5	
Entertainment	http://ziarero.antena3.ro/press/index/filter/national	Comprehensive collection of online newspapers and magazines	5	5	5	
Entertainment	http://www.e-ziare.com/	Comprehensive collection of online newspapers and magazines	5	4	5	Well structured on areas of interest
Entertainment	http://www.ziaresireviste.ro/index.php?page=telefoane_utile	Collection of news articles and information on different topics	3	4	4	Well structured on areas of interest
Entertainment	http://www.ziare.org/	Comprehensive collection of online newspapers and magazines	4	3	4	

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Entertainment	http://ziare.realitatea.net/	Online news and entertainment content published by realities TV media trust	5	5	5	Well structured on areas of interest
Entertainment	http://www.kanald.ro/live.html	Multimedia content published by canal D media trust	3	4	4	High audiences among senior females population
Entertainment	http://www.filmeonline2013.biz/	Online free movies - subtitled	3	4	4	
Entertainment	http://pefilme.com/	Online free movies - subtitled	3	3	4	
Entertainment	http://www.ecursuri.ro/	Online courses, tutorials, tests, games	3	4	5	Rather limited selection in each category
Entertainment	http://europatravel.ro/seniori	Travel for seniors	5	5	5	
Entertainment	http://www.infoturism.ro/sejur/program-seniori/	Travel for seniors	5	4	3	
Entertainment	http://e-senior.pl/ro/	Senior platform: education, training, chat, online shopping,	1	1	1	It does not work for Romania
Entertainment	http://jocuri.itbox.ro/jocuri-logice/sah/	Online games	3	3	4	
Entertainment	http://www.sudoku.ha-ha.ro/	Online sudoku	4	4	4	
Homecare	http://homecareservices.ro/?gclid=CjwKEAiA9c-2BRC_vaaJ0Ybps30SJABlqxDekShlFPdn6rfNSJKhRsCLBFoHz-Re1dOu6yfP3TjmixoCZIzw_wcB	Homecare	4	3	3	
Homecare	http://www.niciodatasingur.ro/	Companionship at home	5	5	5	
Homecare	http://www.seniorinet.ro/	Providers of homecare and medical assistance at home	5	5	5	
Homecare Medical Assistance	http://www.cag.ro/	Providers of homecare and medical assistance at home	5	4	4	
Homecare Medical Assistance	http://caritasromania.ro/	Providers of homecare and socio-medical assistance at home	5	5	5	
Lifestyle	http://www.cursurigratuite.ro/cursuri/7/Exercitii_pentru_varsta_a_treia.html	Physical exercises for seniors	2	2	2	Text and pictures
Medical And	http://www.vivat-	Medical and lifestyle information for	4	5	5	

Lifestyle Information For Patients	familia.ro/articole/ingrijire/	patients				
Medical Care	http://www.intermedicas.com/personal-health-assistant/personal-health-assistant-pentru-seniori-cronic	Medical services at home	4	4	5	The site is partially in English
Medical Care	http://ingrijiriladomiciliu.com/index-2.html	Medical care at home	5	5	5	
Medical Care	http://www.nicomed.ro/ingrijire-medicala-la-domiciliu.html	Medical care at home	5	5	5	
Medical Care	http://www.romedic.ro/cabinete/ingrijire-medicala-la-domiciliu/bucuresti	Interactive list of companies providing medical care at home	3	3	4	The list is incomplete and not all links are working
Medical Care	http://cabinet-recuperare-medicala.ro/	Medical recovery services at home	5	5	5	
Medical Care	http://www.doctoracasa.ro/?gclid=CjwKEAiA9c-2BRC_vaaJ0Ybps30SJABlqxDemOdAfRNjSCd6vzTK7ZlZcc_ZejHuiRsdqUnWSAZ_4xoCibHw_wcB	Medical care at home	5	5	5	
Medical Care	http://www.sanacas.ro/	Medical, stomatological and recovery care at home	4	4	5	
Medical Info	https://www.youtube.com/watch?v=ukkcbeOv5Eo	Physical exercises for seniors	3	5	5	Multimedia content in the gym
Medical Info	https://www.youtube.com/channel/UCTMyhokd0AV4ycHjLLBLSwQ	Collection of medical video shows on senior related pathologies	3	5	5	
Medical Information And Forum For Patients	http://www.netmedic.ro/forum-medical/	Medical information and forum for patients	5	5	5	
Medical Information And Forum For Patients	http://www.webmedic.ro/medici?gclid=CIHkkJ3xnssCFQoCwwodfPsNPg	Medical information and forum for patients	4	2	3	
Medical	http://www.sfaturimedicale.ro/	Medical information and forum for	5	5	5	

Information And Forum For Patients		patients				
Medical Information And Forum For Patients	http://www.medical-bucuresti.ro/	Medical information and forum for patients	4	3	4	
Shopping And Delivery	http://www.coradrive.ro/delivery?gclid= CjwKEAiA9c-2BRC_vaaJ0Ybps30SJABlqxDel1wXL 7SD4NUEiyQkd7B_jB90gCxYUXUlqT 1j6GUZRxoCCQjw_wcB	Food online shopping delivery at home (supermarket)	5	4	4	
Shopping And Delivery	http://www.carrefour-online.ro/	Food online shopping delivery at home (supermarket)	5	5	5	
Shopping And Delivery	http://www.alimentaraonline.com/?gclid =CJax1OqUn8sCFerpwgodG5MBJA	Food online shopping delivery at home (supermarket)	5	5	5	
Shopping And Delivery	http://www.homemarket.ro/	Online shopping and delivery supermarket	3	5	5	Just for Bucharest
Shopping And Delivery	http://www.bolnav.ro/	Online shopping and delivery pharma	5	5	5	
Shopping And Delivery	http://www.efarma.ro/contact/	Online shopping and delivery pharma	5	5	5	
Shopping And Delivery	http://www.emag.ro/	Online shopping and delivery	5	5	5	Very wide category of products
Socializing	http://www.voluntariseniori.ro/	Senior volunteers recruitment	4	4	4	
Socializing	https://www.facebook.com/alzgrup					
Entertainment	http://www.descopera.ro/	Magazine: science, news, nature, history	4	5	5	Nice interface; good content; for highly educated individuals
Entertainment	http://www.220.ro/documentare/	Magazine: science, news, nature, history, divertissement	3	4	4	For average audience
Entertainment	http://natgeotv.com/ro/ghid-de-calatorie-in-cosmos/clipuri/calatorie-virtuala	National geographic virtual tours	5	5	5	
Entertainment	https://www.google.com/culturalinstitut	Art	5	5	5	

	e/project/art-project					
Medical Services	http://www.caritas-ab.ro/hu/node/1609	Ekg - telemedicine services provided by a formal care provider	3	3	3	We do not know how it actually works
Entertainment	http://www.muzicaderelaxare.eu/	Relaxation music	4	4	4	
Entertainment	http://www.muzicapopulara.net/	Popular music	4	4	4	
Entertainment	http://www.fanlafel.ro/muzica/clasica/brahms/	Classical music	5	4	5	
Entertainment	http://www.cimec.ro/muzee/muzee-cu-tur-virtual.html	Virtual tour museums	4	4	4	
Entertainment	http://www.sibiu360.ro/obiective360/ms-turvirtual/	Virtual tour museums	4	5	5	
Technology	http://www.yoda.ro/tv-electronice/telecomanda-minune-cum-iti-faci-smart-tv-cu-250-ron-cu-un-gadget-romanesc.html	Smart remote control				
Technology	http://www.yoda.ro/tv-electronice/samsung-smart-tv-2012.html	Interactive smart TV with human interaction command				
Technology-Medical	http://www.onetouch.com/support/testing/download-testresults	Glucometer with monitoring software and medication and customized lifestyle advice				
Technology-Medical	http://glneurotech.com/kinesia/products/homeview/	Integrated Solution For Tele-monitoring Parkinson Patients				
Technology-Medical	http://www.dotari-medicale.ro/pacienti_ro/verificare-stare-de-sanatate/ecg-pentru-acasa/palm-ecg-cardio-a.html	Portable EKG				
Technology-Medical	http://www.linemed.ro/tensiometru-omron-digital-brat-m10-it-automat	PC connectable tensiometer				
	http://www.stetoscoape.ro/tensiometru-automat-de-brat-cu-pc-link-soft-specializat-afib-si-mam-microlife-bp-a200.html					
Communication	https://www.roportal.ro/discutii/topic/33852-alzheimer/	Ad forum				
Communication	http://forum.romedic.ro/prod/Grup_de_s	Parkinson forum				

	uport_pt_bolnavi_de_Parkinson_si_familiile_lor_052488.html	
Communication	http://www.boala-parkinson.ro/HTML/forum-boala-parkinson.html	Parkinson forum
Communication	http://forum.romedic.ro/cauta.php?sir_cauta=dementa	Dementia forum
Communication	http://www.crestinortodox.ro/forum/	Orthodox forum
Communication	https://prosistemhaha.wordpress.com/2015/07/20/chat-de-comunicare-crestin-ordox/	Orthodox forum and chat
Communication	http://www.forum-catolic.cnet.ro/viewtopic.php?f=26&t=3125	Greek catholic forum and chat
Communication	http://www.catholica.ro/2005/09/20/un-forum-pentru-catolici-si-nu-numai/	Catholic forum and chat
Entertainment	https://www.youtube.ro/	
Tele-assistance Services	http://www.seniorinet.ro/teleasistenta-pentru-seniori	Mobile for good project- mobile phone with panic button connected with a socio-medical services provider
Tele-assistance Services	http://www.telecomunicatii.agir.ro/articol.php?id=856	Integrated Platform For Home Tele-assistance - TELEASIS- The Platform Is Fully Described In English I The Pdf. Document
Tele-assistance Services	https://www.farmaciata.ro/stiri/item/25464-primul-serviciu-de-ingrijiri-medicale-integrate-la-domiciliu-ofera-acum-si-teleasistenta	Integrated Tele-assistance And Tele Emergency System For Elderly - Patient Bracelet Connected With An Assistance Call Centre

Figure 1: Formal and informal care services in Romania

Slovenia

Formal Care Services
- **Home care** (home care services, home help, home care assistant, personal assistance, housing groups in the field of mental health).
- **Day programs** (such as adult day care centers and day care in training centers)
- **Institutional care** (retirement homes, occupational activity centers, training centers, institutions for persons with disabilities)

Cash benefits:
- Attendance allowance
- Assistance and attendance allowance
- Child care allowance

Structure of formal caregivers according to activity types:
75 % institutional care
25 % home care

Income structure according to resources:
73 % from public resources
27 % from private resources

Expense structure:
76 % institutional care (55 % retirement homes, 16 % social-security institutions, 5 % hospitals)
24 % home care

Key stakeholders, from the field of ensuring care for the elderly in Slovenia, can be found in the following areas: public sector (the state and local communities), private sector, third sector (non-governmental organizations), and informal sector (family, friends, relatives, neighbors, etc.). Much of their experiences are interconnected therefore defined in the following categories:

Formal Caregivers for the elderly
Status can be public, private, or nonprofit, and their mission is providing care in institutions or community types. Such as:

- **Retirement homes**, which provide institutional care, home care, and other types of services for the elderly (daily living centers, temporary placements, trainings for the elderly and relatives, etc.). At the end of 2014 the institutional care provided 98 retirement homes and special institutions. Of which 54 institutions were public, 39 institutions have been awarded concession to operate, and 5 special institutions for the elderly. Home care social-security services were conducted by 24 retirement homes in 2013.http://www.ssz-slo.si/

- **Centers for social work** (CSD), which provide home care social-security services. According to the Social protection Institute of the Republic of Slovenia the number of social protection centers was 37 and are the main providers of this kind of service in Slovenia; http://www.scsd.si/
- **Specialized home care agencies** - The Home Care Institute Ljubljana: www.zod-lj.si and Home Care Center Maribor; http://www.pomocnadomu.eu/
- **Daily Living Centers Ljubljana**; http://www.dca-ljubljana.org /
- **Home care service**, which provides home health care activities. Home care service is an integral part of the primary health care and with it primary health service. It is carried out in a patient's home, health center, local community and on the field. Home care operator is a registered nurse. Every Health care center has its own home care service.
- **Private undertakings** with granted concession, municipalities, or state, which provide home care services or institutional care services;

Informal Care Services

Slovenia does not have a national policy, which would systematically and uniformly govern the field of informal care. Informal care is often intertwined with formal care due to separated heath system and social protection and is therefore uncoordinated for a long-term care user. A number of laws have been passed, which were indirectly connect with informal caregivers: The Pension and Disability Insurance Act, which mentions the right for an assistance and attendance allowance; The Health Care and Health Insurance Act, within which the right to an allowance to care for an immediate family member living in the same household as the insurer is enabled; The Social Protection Amendment Act, which enables family care assistants financial compensation on the basis of special regulations.

Informal Care Services for the elderly
- Most often are **family members, relatives, friends, neighbors**.
- **Non-governmental** organizations are a specific category.

Nonprofit and volunteer organizations can be professionalized service providers who frequently provide unpaid services within the volunteer work. Key organizations in the areas of promoting the interests and assistance to the elderly through various programs and projects in Slovenia are:

1. The Slovenian Federation of Pensioners' Organizations (volunteer and other activities of individual ZDUS members, the 'Elderly for Elderly' project, the 'Helps' project); www.zdus-zveza.si
2. The Intergenerational Association for Quality Ageing Slovenia (Self-help groups for elderly programs); www.zveza-medgendrustev.org
3. The Aton Trstenjak Institute of Gerontology and Intergenerational Relations (the Institute is focusing on development of new programs for quality ageing and good intergenerational relations); http://www.inst-antonatrstenjaka.si/sozitje/projekti/1.html
4. The Slovenian Association for Help with Dementia – Spominčica (Alzheimer Cafe – informal meetings of relatives of people with dementia); http://www.spomincica.si/

5. The Slovenian Red Cross (support programs for the most disadvantaged individuals and groups);

6. Caritas Slovenia (support programs for the most disadvantaged individuals and groups); www.karitas.si

7. Slovene Philanthropy (volunteer programs); www.filantropija.org - Prostovolljstvo.org is a Slovene Philanthropy's project providing all news about volunteering to individuals, volunteer organizations and general public. The developed informational system connects interested volunteers and volunteer organizations. News, events and voluntary work content is contributed by members of the Slovenian Network of Voluntary Organizations. http://www.prostovoljstvo.org/

8. Gerontological Association of Slovenia (the association associates with experts and other workers working with elderly in a social and health system, developing programs on a national and local level, etc.). www.gds.si

9. The Association of Societies for Social Gerontology of Slovenia - The Association's purpose is to implement self-help programs for the elderly, develop organized volunteer work, and preparing the middle generation of their old age. http://www.skupine.si/

10. National point for elderly MATIjA. MATIjA is an activity, marketing, information and assistance network, which enables access to information, services and support mostly for elderly through a call center, and organization and individual network. It connects and supports volunteers and other non-governmental organizations, and providers of goods and services for the elderly. http://www.cd-matija.si/

11. The VARNA STAROST portal is an informative web portal with personal consulting service for the elderly and their families. They collect, edit, and forward information about offers for the elderly. Varna Starost will also offer support on a personal level: seeking the best solutions with the help of legal, real-estate, and financial advisors. http://varnastarost.si/

12. SENIORJI.INFO The seniorji.info web portal is intended for the elderly population (seniors and retirees). The portal provides useful information for a satisfying and full life, and encouraging lifelong learning and coexistence between generations. http://www.seniorji.info/

13. Zlata leta Institute offers useful and interesting articles for the elderly population. They have introduced the News category intended exclusively for the elderly population. In doing so, it was found that there is almost no news content about and for the elderly currently on the web and would like to encourage the use of technology within the elderly population. http://zlataleta.com/

14. Slovenian Diabetes Association, Union of the Blind and Partially Sighted of Slovenia, other patient associations (cardiac, pulmonary, oncology, etc.), are performing measurements, counseling, preventive programs, and different projects.

Cyprus

Analysis of the formal and informal care services in Cyprus let to the finding that while diverse and sufficient formal care services are available for the elderly, i.e. day care centers, elderly homes, nursing homes and senior living communities, limited informal care services exist. Whereas, both governmental and private institutions operate in all districts, the governmental institutions can be attended free of charge while the private ones are attended on either a monthly or an annual fee. Regarding the informal care services, taking into account the strong family values that run in the Cypriot society, the elderly if neither independent nor living in nursing homes, they are usually looked after their children and/or relatives.

The table below (Table 2) outlines the private nursing homes/rehabilitation centers operating in Cyprus:

Nursing Home/Rehabilitation Center	District
Panayia I Eleoussa Synchronos Old Age Home Ltd	Nicosia
Rodotheon Foundation	Nicosia
Saint Mary's and John's Polyclinic	Nicosia
Materia Senior Living Community The vision of Materia is a Beautiful Quality Life for third Age in Cyprus. Their aim is to constantly improve the quality of life of elderly people in Cyprus and the group's mission is to offer an integrated framework of quality care services by continuous improvement of the existing services and the continuous addition of new services http://www.materia.com.cy/index.php?lang=en	Nicosia
Nursing Home Agios Pavlos	Nicosia
Old Age Home	Nicosia
Apostolos Loucas Old Age Home	Larnaca
Agios Ioannis o Prodromos	Nicosia
Melathron Nicosia	Nicosia
Agia Marina Old Age home	Nicosia
FED Hosting House	Famagusta
Frangou Andreas	Larnaca
Ayios Nektarios Charity Foundation	Nicosia
Destalo Care Home	Larnaca
Ma Rea Kiveli Old Age Home	Larnaca
Andreou Constantia	Larnaca
Chrysostomio Old Age Home	Larnaca
Kentro Filoxenias Enil. "O Timios Stavros" Lefkaron	Limassol
Oasi Ilikiomenon Ayios Georgios	Larnaca
Megali Ikogenia Ikos Evegirias	Nicosia
Anagenissi Old Age Home Ltd	Nicosia
Anastasiou Eleni	Nicosia

Chrysi Ilikia Ltd	Nicosia
Estia Old Age Home	Nicosia
Galini Old Age Home	Nicosia
Archangelos Michael Old Age Home	Nicosia
Ayios Ioannis O Lambadistis Rehabilitation Center	Nicosia
Chrysospiliotissa Old Age Home	Nicosia
Demetra Old Age Home	Nicosia
Evaggelismos Old Age Home	Nicosia
St. Demetrio Center for the Elderly	Nicosia
Stegi Ilikiomenon Elenio Ltd	Nicosia
Thalpori Old Age Home	Nicosia
Timotheion Old Age Home Ltd	Nicosia
Evelpidio	Limassol
Marmi Services Ltd	Limassol
Agia Eirini Stegi Ilikiomenon	Limassol
Constantinion Stegi Ilikiomenon Ltd	Limassol
Ayios Demetrios Old Age Clinic	Limassol
Ayia Zoni Old Age Home	Limassol
Ayios Nicolaos Old Age Home	Limassol
Ayios Spyridonas Old Age Home	Limassol
Elpis Stegi Geronton & Anarotirio	Limassol
Zoe Old Age People Home	Limassol
Zesti Folia Old Age Home	Larnaca
Fotostella Panagia Maria Old Age Home Ltd	Paphos
Kyanos Stavros – Geriatric Center and Rehabilitation	Paphos
Vasiliada Old Age Home	Paphos

Figure 2: Private nursing homes/rehabilitation centers in Cyprus

Strovolos Municipality created the Strovolos Municipal Multi-Functional Foundation (SMMFF) for Adults in 1993 in an attempt to integrate seniors into the Cypriot society. The Centre is a meeting place for individuals post retirement, aiming at their socialization and implication in creative, as well as, entertaining activities. Seniors can participate in any of the following activities free of charge:

Time	Monday	Time	Tuesday	Time	Wednesday	Time	Thursday
9:15 - 10:00	Gymnastics	9:00 - 9:45	Water aerobics	8:45 - 10:00	Dance	9:15 - 10:00	Gymnastics
10:00 - 12:00	Painting	14:45 - 16:00	Hand-made creations	10:00 - 11:00	Choir	10:00 - 11:00	Religious Speech
		15:00	Computers				

- **16:00**	Group A	
16:00 **-** **17:00**	Computers Group B	

Similar centers for adults operate in almost all Municipalities in Nicosia such as in Engomi, Ayios Dometios and Lakatamia.

Cyprus has been also involved in the Elderly Care Vocational Training System ([www.ecvleonardo.com)](www.ecvleonardo.com) whose aim was to promote academically and socially acceptable skills for elderly care taking workers through self-training electronic methods and means.

The ECV project addressed the current status and the trends of the training, social and employment rehabilitation needs of the Elderly Care in Europe for:
- Vocationally skilled elderly care workers
- Transparency of competencies and
- Acceptance of the employment and service structures by the social partners.

The ECV project produced a Self-Training Computer Software, a Textbook, a Competence Accreditation methodology and a Social Relations Guide. The ECV self-training software utilized a contemporary electronic PC platform with adequate data storage, fast retrieval technology and advanced audio-visual media enabling the trainees to learn the Elderly Care Vocations modules of "Attendance", "Cleaning", "Hygiene", "Entertainment" and "Administration" at their own pace and in their own language. The successful diligent trainees had subsequently the option to apply, through the appropriate mechanism of the ECV network, for validation of their skills and award of the ECV Certificate of Competencies.

Spain – System & Platform Analysis

The analysis of different systems and platforms for assistance to the elderly has resulted to two kinds of categories, social services and medical services. This study was conducted via the analysis of systems aimed at elderly assistance.

Social services are those in which the system provides tools to help or to track users' state. Not all of the services have users' health monitoring and analysis and monitoring are only for users' wellbeing and neither for monitoring vital signs nor performing activities of medical nature.

Medical services correspond to those that provide functionality relating to monitoring vital signs and conducting medical checking in all of the forms. In most cases, the same service can be used in medical systems and in social services.

As shown below, different functionalities are present in social services and medical services.

Social services

Detection of risk situations: Risk situations can be of different types. Users' falls or absence of normal activity fall within this category. Through user patterns, the system can detect deviations which lead to detect risk situations on real-time. On the other hand, situations like gas leakage can be detected with sensors installed at house.

Agenda / reminders: Within this group we can distinguish the services involving a human operator, and those based on an automated system, with both having access to the users' information while generating a message through a device located at home.

Company: Elderly people need company. These services provide a means to establish contact with important others, including their caregivers. Calls or video calls do not necessarily take the form of a medical consultation.

*Help need***:** Alarm service; when a non-controlled situation occurs, the user sends a notification to the control centre. ThecControl centre receives in turn the request and gives a solution to the problem. There can be different types of problems (social, environmental, etc.).

*Geolocation***.** It allows user permanent location through a GPS service. This service is often combined with the previous one, although it can be used independently, as for example, to locate people with Alzheimer's disease.

Medical services

*Self-training***:** systems that offer training services to enable self regulation of the individual's health situation with the ultimate goal of improving the user's habits and behaviours. The knowledge acquired enables users to adapt to their health condition and needs.

Rehabilitation: usually consisting of explanatory videos showing to the elderly the correct way to perform rehabilitation exercises. Systems also exist that generate cognitive rehabilitation exercises (e.g. question - answer games). Serious games are also used. The primary purpose of the games are for training and better rehabilitation results.

*Tele - consultation***:** Possibility of holding consultations with health professionals from home. Within this group, we have the option of telephone consultations or, in most cases, by videoconference.

*Tele - monitoring***:** Measurement and monitoring of various biomedical parameters. All measurements are performed from home. Most common are:

1. Pulsi-oximeter: A system that indirectly monitors the oxygen saturation of a patient's blood.
2. Spirometry: Functionality that help detect breathing problems. This is used to diagnose COPD (Chronic obstructive pulmonary disease), asthma, and others.
3. Actigraphy: User registration movement.
4. Blood Pressure: Blood pressure meter. Used for detection and monitoring of coronary heart disease.
5. ECG: Electrocardiography.
6. Glucose: Measuring blood glucose.
7. Weight: Weight monitoring.
8. Temperature.
9. Pulse

Each system analyzed is classified below in social and medical services. This classification is nevertheless not exclusive as, as shown, many of systems fall in both categories.

Table 3: Classification of systems in social and medical services

System/platform	Medical services	Social Services
Artemis	•	
Asispa		•
AsisT		•
Aviva	•	•
Cardiocom	•	•
CompanionAble	•	•
Cruz roja		•
E-Cliniq	•	•
Eocene	•	
Eulen		•
Health buddy	•	
Igon		•
Intel Health guide	•	
MiAvizor		•
Mckesson	•	•
Omni	•	•
Philips Remote Patient Monitoring	•	
Philips Motiva	•	•
POET		
RecorDate	•	
SarQuavitae		•
Skeeper		•
T-asisto	•	•
Telegerontología	•	•
TeleMedCare	•	
Tunstall		•
Weel@Home	•	•
Wireless Complete Health monitoring	•	

Figure 3: Classification of systems in social and medical services

Further analyzing the data above, it can be concluded that 37% of the systems include both social and medical services.
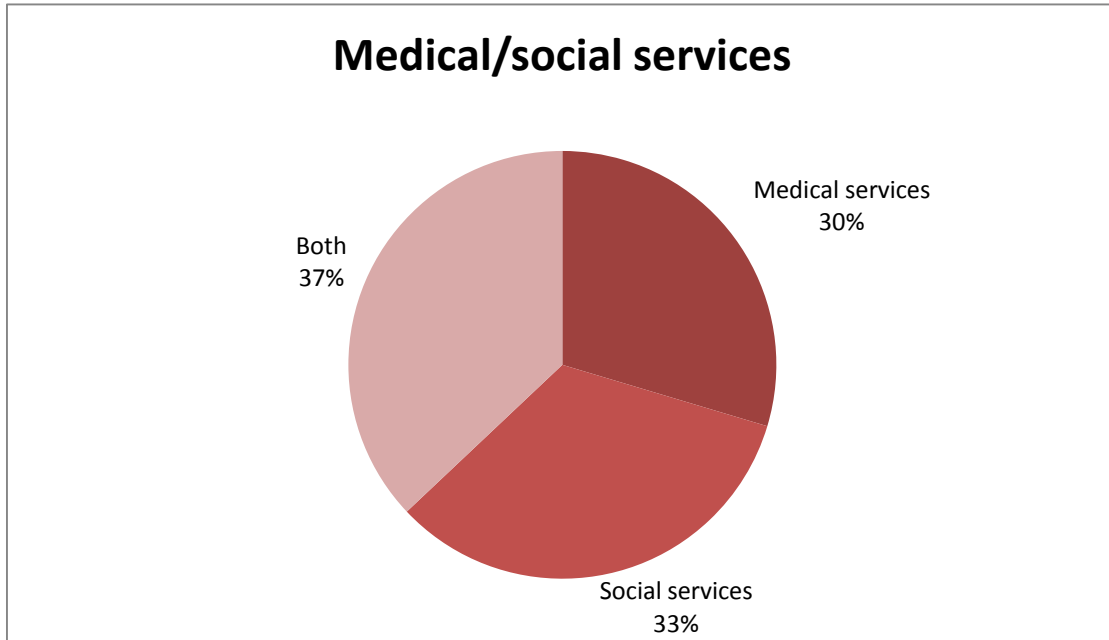
Figure 4: Medical/Social services

Groups of functionalities of medical systems

Tele-consultation

	Tele-monitoring	Audio	Video	Self-training	Rehabilitation
Aviva	•	•	•		•
Cardiocom	•	•			•
CompanionAble					
E-Cliniq	•	•			•
Eocene	•				
Health buddy	•			•	
Intel Health guide	•	•	•	•	
Mckesson	•			•	
Omni		•	•		•
Philips Remote Patient Monitoring	•				
Philips Motiva		•	•	•	
RecorDate					•
T-asisto				•	•
Telegerontología	•	•	•		•

TeleMedCare	•	•
Weel@Home	•	•
Wireless Complete Health monitoring	•	

Figure 5: Medical systems with their functionality group

As shown below, the principal services in medical systems are tele-monitoring and tele-consultation.
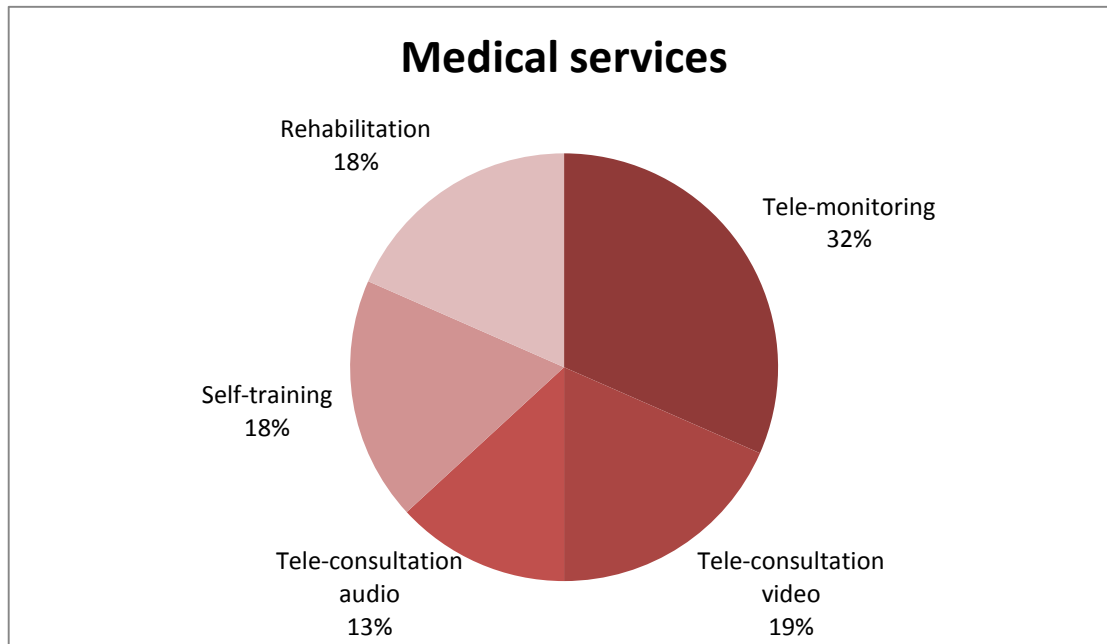
Figure 6: Principle services in medical systems

Monitoring Services

The table below outlines the different kinds of monitoring services.

	ECG	Spiromerty	Weight	Blood pressure	Glucose	Temperature	Pulse	Pluxi oximeter	Actigraphy
Aviva	•		•	•	•	•	•		
Cardiocom		•	•	•	•			•	
E-Cliniq	•	•	•	•	•	•			
Eocene					•	•			
Health buddy		•	•	•	•				

Intel Health guide			•	•	•		•	
Mckesson			•	•	•		•	
Philips Remote Patient Monitoring	•		•	•	•		•	
Philips Motiva	•		•	•	•		•	
Telegerontología			•	•	•	•		
TeleMedCare	•	•	•	•	•	•	•	•
Weel@Home			•	•	•		•	
Wireless Complete Health monitoring			•	•		•		•

Figure 7: Types of Monitoring Services

Principal services in the monitoring systems are Blood pressure, Glucose and Weight with about 20% of the systems including the aforementioned services.

Figure 8: Principle services in monitoring systems

.

Functionalities of Social Services

Company

Company	Audio	Video	Detection of risk situation	Need help	Geolocation	Agenda/reminders
Asispa	•		•	•	•	•
AsisT				•		•
Aviva				•		
Cardiocom	•	•		•		
CompanionAble	•		•	•		•
Cruz roja	•			•	•	•
E-Cliniq				•		
Eulen	•			•		•
Igon	•	•		•		•
MiAvizor			•	•		
Mckesson				•		
Omni	•	•		•		•
Philips Motiva	•	•		•		•
SarQuavitae	•	•		•		•
Skeeper				•	•	
T-asisto				•		•
Telegerontología	•	•		•		•
Tunstall			•	•		
Weel@Home				•		•

Functionalities in social services

- Agenda/reminders 22%
- Company audio 19%
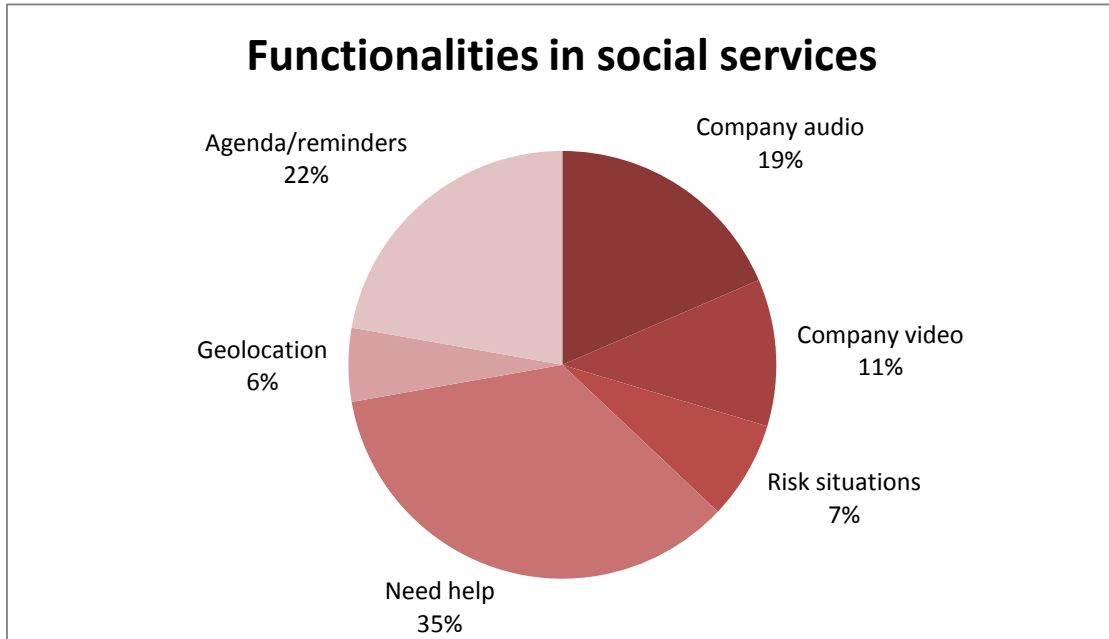- Company video 11%
- Risk situations 7%
- Need help 35%
- Geolocation 6%

Figure 10: Functionalities in Social Services

SENIOR-TV

PROVIDING ICT-BASED FORMAL AND INFORMAL CARE AT HOME

Quality Checklist
Quality Control of D1.1-V1

Peer Reviewer	
Reviewer	**Partner**
Giorgos Kostopoulos	Gluk Advice BV

CRITERIA	VERIFIED
1) Conformity to Standards and Project templates	
Logos (AAL, SENIOR-TV)	✔
Project title, reference, author, version, revision, data	✔
Mandatory statements (disclaimer)	✔
Conformance to the standard structure required by EACEA (ex. Disclaimer, Executive summary, Acknowledgement, Introduction, page numbers, etc.)	✔
2) Language check (typing mistakes, grammar, etc.)	✔
3) Coherence with objectives declared in the Technical Annex	
Obj. 1: To elaborate the project's Quality Plan following well-accepted methodologies tailored to the learning domain and based on a detailed description of projects objectives, success indicators and work plan.	**N/A**
Obj. 2: To monitor all project activities and provide quality control of all project results as well as recommendations for improvements and identification of best	

practices.	
4) Reliability of data	
Information and sources well identified	✔
Data and information are free from factual or logic errors	✔
The analysis (if applicable) is reliable, i.e. previous studies have been sufficiently reviewed; qualitative information and quantitative data are balanced and appropriate	✔
5) Credibility of findings	
Findings supported by evidence based on data analysis	✔
Replicability of findings	✔
6) Validity of conclusions	
Conclusions meet evaluation questions and information needs	✔
Conclusions supported by proper evaluation findings	
No conclusions according to the evidences presented	

7) Please indicate any deviations from contractual conditions (WP objectives declared in the technical annex)

8) Comments/Suggestions for revision

The name of the deliverable is missing from the footer section. No index of tables or figures. The deliverable is accepted after the minor comments are implemented.

9) Implementation of revisions/modifications suggested and explanation for eventual rejections (performed by the Responsible of the Deliverable)

10) Deliverable accepted

✔☐YES
☐ NO
If NO, please state reasons:

SENIOR-TV

PROVIDING ICT-BASED FORMAL AND INFORMAL CARE AT HOME

Quality Checklist
Quality Control of D1.1-V1

Peer Reviewer	
Reviewer	**Partner**
Anna Philippou	SMMFF

CRITERIA	VERIFIED
1) Conformity to Standards and Project templates	
Logos (AAL, SENIOR-TV)	✔
Project title, reference, author, version, revision, data	✔
Mandatory statements (disclaimer)	✔
Conformance to the standard structure required by EACEA (ex. Disclaimer, Executive summary, Acknowledgement, Introduction, page numbers, etc.)	✔
2) Language check (typing mistakes, grammar, etc.)	✔
3) Coherence with objectives declared in the Technical Annex	
Obj. 1: To elaborate the project's Quality Plan following well-accepted methodologies tailored to the learning domain and based on a detailed description of projects objectives, success indicators and work plan.	N/A
Obj. 2: To monitor all project activities and provide quality control of all project results as well as recommendations for improvements and identification of best	

practices.	
4) Reliability of data	
Information and sources well identified	✓
Data and information are free from factual or logic errors	✓
The analysis (if applicable) is reliable, i.e. previous studies have been sufficiently reviewed; qualitative information and quantitative data are balanced and appropriate	✓
5) Credibility of findings	
Findings supported by evidence based on data analysis	✓
Replicability of findings	✓
6) Validity of conclusions	
Conclusions meet evaluation questions and information needs	✓
Conclusions supported by proper evaluation findings	
No conclusions according to the evidences presented	

7) Please indicate any deviations from contractual conditions (WP objectives declared in the technical annex)
8) Comments/Suggestions for revision None
9) Implementation of revisions/modifications suggested and explanation for eventual rejections (performed by the Responsible of the Deliverable)
10) Deliverable accepted ✓☐**YES** ☐ NO If NO, please state reasons: