



OVERALL REGIONAL SITUATION IN ROMANIA IN HOME CARE RESEARCH & INNOVATION AND QUADRUPLE- HELIX COOPERATION IN R&I

REGIONAL STUDY OF THE HOCARE PROJECT IN ROMANIA

ABSTRACT (RO)

Situația generală regională privind cercetarea și inovarea pentru îngrijirea la domiciliu (ID) și cooperarea în cercetare și inovare (C&I) prin Modelul Elicoidei Cvadrupe (MECv) a fost compilată din informațiile privind situația din România relevantă activităților proiectului Interreg Europe HoCare PGI01388, <http://www.interregeurope.eu/hocare/> și din informațiile furnizate de două grupuri țintă - Autoritatea de management pentru Programul Operațional Competitivitate (POC) din cadrul Ministerului Dezvoltării Regionale, Administrației publice și Fondurilor Europene (MDRAPFE) și actori din ecosistemul de inovare al îngrijirii la domiciliu din toate elicoidele modelului elicoidei cvadrupe (ECv) (ca solicitanți și participanți în proiecte inovative în cadrul POC sau alte instrumente de politică financiară națională).

Informațiile din acest raport privind situația generală au fost colectate prin cercetarea de birou efectuată de echipă prin baleierea informațiilor publice existente pe internet dar și prin interviuri și discuții cu ambele grupuri țintă pentru care raportul este realizat și publicat.

Obiectivul proiectului Hocare este de a îmbunătăți livrarea soluțiilor inovative de ID în lanțurile de inovare regională prin întărirea cooperării actorilor din sistemul regional de inovare folosind abordarea prin MECv.

HoCare are ca scop (1) îmbunătățirea strategică (descriere și evaluare) a POC cu apeluri specifice soluțiilor ID bazate pe MEC, precum și (2) îmbunătățirea nivelului practic de sprijin pentru depunere de către membrii ECv la POC a proiectelor de calitate pentru inovare, pentru nevoi tehnice neabordate sau pentru inovare bazată pe cererea publică în domeniul ID.

În România există în prezent mai multe instrumente de politică financiară care ar putea fi exploatate pentru finanțarea inovațiilor privind ID. În primul rând, POC cu Axa prioritară 1: Cercetare, dezvoltare tehnologică și inovare (CDI) în sprijinul competitivității economice și dezvoltării afacerilor și Axa Prioritară 2 Tehnologia informației și comunicațiilor (TIC) pentru o economie digitală competitivă.

În afară de POC, proiectele de C&I se desfășoară în cadrul Programelor instituționale de C&I (competiție internă, cu fonduri reduse de la Ministerul Cercetării și Inovării), Programele sectoriale de C&I ale ministerelor (teme predefinite, alocări directe, fonduri de la ministerul sectorial – Ministerul Comunicațiilor și Societății Informaționale, cu limite variabile și inconstante ale fondurilor), Programului Național de C&I (cu participare deschisă la competiție, fonduri de la Ministerul Cercetării și Inovării, topici din strategia națională a C&I), de asemenea unele proiecte sunt finanțate direct, fara competiție, din bugetul statului pentru instituțiile de cercetare ale Academiei Române. Toate aceste programe au propus și subiecte care vizează tangențial sau direct domeniul sănătate. Există o inițiativă mai veche de colectare în baze de date publice a tuturor rezultatelor acestor proiecte care să fie puse la dispoziția publicului larg, principalul contributor la finanțarea acestor proiecte.

Modelul ECv nu a fost niciodată impus sau folosit, deoarece a fost folosită ipoteza că un cercetător cunoaște deja domeniul și nevoile utilizatorilor din domeniu. În cadrul POC, mai multe acțiuni și axe prioritare au elemente care se încadrează atât în inițiativele de ID dar nu susțin cooperarea cu MECv.

Domeniul - ID - nu este indicat sau descris direct în POC dar, cu toate acestea, soluțiile de asistență medicală și TIC sunt părți esențiale ale strategiei RIS3 cărora astfel le sunt alocate diverse modalități de finanțare a soluțiilor specifice ID prin încadrare în categoria existența potrivită din Axele, Prioritățile și Acțiunile din POC.

Există deja mai multe rețele și evenimente disponibile în ecosistemul de inovare dar proiectele de succes inițiate în domeniul ID nu sunt numeroase. Pentru detalii, citiți raportul de mai jos, care a fost compilat din informațiile publice disponibile până în prezent și prezentat sub forma unui chestionar completat structurat.

Informațiile din acest raport împreună cu bunele practici din cadrul proiectelor finalizate și din managementul și orientarea strategică a diverselor PO din cele 8 țări vor fi utilizate drept punct de plecare pentru Studiile tematice și Rapoartele de transfer de politici de susținere a inovării în ID pe plan internațional, Aceste studii și Rapoarte vor fundamenta dezvoltarea Planului de Acțiune de Îmbunătățire PO în favoarea finanțării inovării în ID în fiecare țară participantă în Proiectul HoCare.

Informațiile din acest raport nu sunt exhaustive ci au fost compilate pe baza informațiilor publice disponibile și nu reprezintă opiniile autorului.

ABSTRACT (EN)

The overall regional situation regarding Home Care (HC) Research and Innovation and Research and Innovation (R & I) cooperation through the Quadruple Helix Model (QuHM) was compiled from information on the situation in Romania relevant to the activities of the Interreg Europe HoCare project PGI01388, <http://www.interregeurope.eu/hocare/> and from information provided by two target groups - the Managing Authority for the Competitiveness Operational Program (COP) of the Ministry of Regional Development, Public Administration and European Funds (MRDPAEF) and - actors in the home care innovations ecosystem from all four helix of the model (QuH) (as applicants and participants in innovative projects within the COP or other national financial policy instruments).

The information in this report on the overall situation was collected through team-based desk research by sweeping the existing public information on the internet and through interviews and discussions with both target groups for which the report is produced and published.

The objective of the HoCare project is to improve the delivery of innovative ID solutions in regional innovation chains by strengthening the cooperation of actors in the regional innovation system using the QuHM approach.

HoCare aims to (1) strategically improve (describe and evaluate) COP with call-specific HC solutions based on QuHM, and (2) improve the practical level of support for QuH members to submit quality innovation projects under COP, for current technical unmet needs or for innovation based on public demand for the HC field.

There are currently several financial policy instruments in Romania that could be exploited to fund HC innovation. Firstly, COP with Priority Axis 1: Research, Technological Development and Innovation (R&I) in Support of Economic Competitiveness and Business Development and Priority Axis 2 Information and Communication Technology (ICT) for a Competitive Digital Economy.

In addition to the COP, R&I projects are carried out within the framework of the R&I institutional programs (internal competition, with limited funds from the Ministry of Research and Innovation), the sectoral R&I programs of the ministries (predefined themes, direct allocations, for instance - Ministry of Communications and Information Society, with variable and limited funds), the National R&I Program (with open participation in the competition, funds from the Ministry of Research and Innovation, the topics of the national strategy of R&I), some projects are also financed directly, without competition, from the state budget for the research institutions of the Romanian Academy. All these programs have also proposed topics that are tangentially or directly addressing the domain - health. There is an initiative to collect, on public databases, all the results of these projects to be made available to the general public (the main contributor to the financing of these R&I projects).

The QuHM has never been enforced or used, as it has been hypothesized that it was supposed that a researcher already knows the field and needs of users. Within the COP, several actions and priority axes have elements that fit into HC initiatives but do not support co-operation under the QuHM.

The HC domain is not indicated or described directly in the COP but, however, medical care and ITC solutions are essential parts of the RIS3 strategy, thus there are different ways to fund HC solutions by fitting the proposals into the appropriate existent Axes, Priorities and Actions in the COP.

There are already many networks and events available in the innovation ecosystem, but successful HC projects are not numerous. For details, read the report below, which has been compiled from publicly available information so far and presented as a structured completed questionnaire.

The information in this report, along with the good practices of the completed projects and the strategic management and orientation of Operational Programs (OP), will be used as a starting point for Thematic Studies and Policy Transfer Reports supporting internationally the innovation in HC. These studies and reports will substantiate the development of the OP Improvement and of the Action Plan in favor of funding HC innovation in each participating country in the HoCare Project.

The information in this report is not exhaustive but has been compiled on the basis of available public information and does not represent the author's views.

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1. Structural funds programme

Structural funds' – Operational Programme(s) - basic information

Name of the Structural funds' - Operational Programme (OP) - supporting Research & Innovation	Competitiveness Operational Programme 2014-2020; COP 2014 - 2020 (Programul Operațional Competitivitate 2014-2020, POC 2014-2020) http://www.fonduri-ue.ro/poc-2014
Geographical coverage of this OP (whole country, specific counties, international, etc.)	National with different budget limits for developed and less developed regions within the country
Managing Authority (Responsible body) for this OP	The Managing Authorities (MA) for COP is within the Ministry of Regional Development, Public Administration and European Funds (MA-MRDPAEF)
Intermediate body(ies) for this OP	Intermediate Body for Research within the Ministry for Research and Innovation for Priority Axis 1 Research, technological development and innovation sustaining the economic competitiveness and business development (Cercetare, dezvoltare tehnologică și inovare în sprijinul competitivității economice și dezvoltării afacerilor) http://newpoc.research.ro/ Intermediate Body for Information Society Promotion within the Ministry for Communication and Information Society for Priority Axis 2 Information Technology and Communication (ITC) for a competitive digital economy (Tehnologia Informației și Comunicației (TIC) pentru o economie digitală competitivă) http://fonduri.mcsi.ro/?q=node
General objectives of the OP	COP supports investment to meet the needs and challenges of the low level of economic competitiveness, in particular as regards: (a) insufficient support for Research & Development and Innovation (RDI), and (b) underdeveloped ICT infrastructures. COP is developed taking into account the relevant strategic documents at European level and on the basis of the relevant national strategic documents: National Strategy for Research, Development and Innovation 2014-2020; National Strategy for the Digital Agenda for Romania 2014-2020; NGN National Infrastructure Development Plan (Next Generation Networks).
Name of the relevant thematic priority axis supporting R&I activities	Priority Axis 1 Research, technological development and innovation sustaining the economic competitiveness and business development (Cercetare, dezvoltare tehnologică și inovare în sprijinul competitivității economice și dezvoltării afacerilor)
Specific objectives of the given priority axis	Priority Axis 1 has 2 Investment Priorities (IP): <u>IP 1a - Improving R&I infrastructures and excellence capabilities</u> has 2 Specific Objectives: SO 1.1. Increasing scientific capacity in areas of intelligent specialization and health (with 2 actions: -Action 1.1.1: Large R&D infrastructures; -Action 1.1.2: Development of networks of R&D centers, coordinated at national level and linked to European and international networking and providing researchers with access to scientific publications and European and international databases); SO 1.2. Increasing involvement in EU research (with 2 actions -Action 1.1.3: Creating synergies with R&D&I actions of the EU's Horizon 2020 framework program and other international R&D&I

	<p>programs; -Action 1.1.4: Attract staff with advanced skills from abroad to strengthen R&D capacity) <u>IP 1b: Promoting investment in R & I, developing links and synergies between businesses, research and development centers and higher education with 2 Specific Objectives:</u> SO 1.3. Increase in private investment in R&D&I (with 2 actions -Action 1.2.1: Stimulate companies' innovation demand through R&D&I projects undertaken by businesses individually or in partnership with R&D institutes and universities for the purpose of product and process innovation in economic sectors with potential for growth; -Action 1.2.2: Loans, guarantees and risk capital measures in favor of innovative SMEs and market research organizations responding to market demands) SO 1.4. Increasing the transfer of knowledge, technology and staff with R&D&I competences between the public research and the private environment (with one -Action 1.2.3: Knowledge transfer partnerships)</p>
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Available support programmes / intervention areas in 2014-2020 relevant to Home Care R&I and quadruple-helix cooperation in R&I

The Axis 1 has 7 sections (A-G) or intervention areas under which innovation support and home care support are relevant. However, the quadruple helix (QH) cooperation could be considered only under section 2 (B) and section 7 (G). The Section A and E has an indirect support for the specific topic - health.

<p>A. Investment for R&D departments of enterprises (Investiții pentru departamentele de CD ale întreprinderilor) http://newpoc.research.ro/uploads/competitii/ghid-unic/ghid-unic-a-b-c-d-e-f-g-1-1.pdf</p>	
Supported activities	<p>Action 1.1.1 Large R&D infrastructures Purchase of land; Construction / modernization / extension / consolidation / modification / change of destination buildings for R&D institutes / centers / laboratories; Purchase of tangible assets for RDs: buildings and / or surfaces within buildings, plant, machinery, research equipment etc; Acquisition of intangible assets for RDs</p>
Relevancy of this support programme	<p>Indirect support for Home care R&I</p>
Reasons of its relevance for Home Care R&I	<p>The projects focus is on thematic areas of smart specialization (Bioeconomy, ITC, Space and Security, Energy, Environment, Eco-Nanotechnologies) and Health, priority area of national interest (5.3 Healthy aging, lifestyle and public health)</p>
Reasons of its relevance for quadruple-helix cooperation in R&I	<p>It addresses partially and indirectly the QH model</p>
Amount of funds	<p>The amount of non-reimbursable public funding for a project is between ROL 4,500,000 and ROL 90,000,000. The total project value (eligible and ineligible costs) can not exceed 225 million lei (50 million euro).</p>

Objectives	This type of project will support initial investment for: <ul style="list-style-type: none"> • Construction of new R&D departments (laboratories / R&D centers, etc.), accompanied by their equipping with equipment and research tools; • Modernization, extension, consolidation, change of destination of existing R&D departments, accompanied by compulsory equipping them with equipment and research tools; • Purchase of equipment and research tools.
Eligible recipients	Entities with legal personality constituted according to the provisions of Law no. 31 on Companies registered in the Register of Potential Contractors
Time plan for calls	Closed
<p>B. Projects for innovation clusters (Proiecte pentru clustere de inovare) http://newpoc.research.ro/uploads/competitii/ghid-unic/ghid-unic-a-b-c-d-e-f-g-1-1.pdf</p>	
Supported activities	<p>Action 1.1.1 Large R&D infrastructures</p> <p>A. Investments in common R&D facilities of the cluster (land acquisition, construction / modernization / extension / consolidation / modification / change of building destination Intended for R&D institutes / centers / laboratories; The acquisition of tangible fixed assets for RDs: buildings and / or premises, installations, machinery, R&D equipment; Acquisition of intangible fixed assets for RD);</p> <p>B. cluster innovation activities (obtaining, validating and protecting patents and other intangible assets belonging to the cluster organization, secondment of highly qualified personnel to the applicant, procurement of innovation advisory services, acquisition of innovation support services);</p> <p>C. cluster exploitation activities (cluster animation to facilitate collaboration, information sharing and the provision or targeting of specialized and personalized business support services; cluster promotion to increase the participation of new businesses or organizations and to benefit from greater Visibility, management of installations belonging to the innovation cluster, organization of training programs, workshops and conferences to support knowledge exchange and establishment of contacts as well as transnational cooperation).</p>
Relevancy of this support programme	Home Care R&I
Reasons of its relevance for Home Care R&I	The projects focus is on thematic areas of smart specialization (Bioeconomy, ITC, Space and Security, Energy, Environment, Eco-Nanotechnologies) and Health, priority area of national interest (5.3 Healthy aging, lifestyle and public health)
Reasons of its relevance for quadruple-helix cooperation in R&I	It does address partially but directly the QH model through the cluster structure and composition.
Amount of funds	Next call 31,70 mil Euro
Objectives	<ul style="list-style-type: none"> • Investments for the development of new common R&D facilities in innovation clusters and / or the upgrading of existing common R&D facilities (common R & D departments / centers / laboratories that may belong to the cluster although they may be physically located within one or more partners / And within the cluster); • cluster innovation activities (obtaining, validating and protecting patents and other intangible assets belonging to the cluster, posting highly qualified staff, acquiring innovation advisory services and purchasing innovation support services);

	<ul style="list-style-type: none"> Operational activities to support cluster operations (cluster animation and promotion, cluster facility management, training programs, workshops, conferences).
Eligible recipients	<p>Innovation Clusters are structures or groups organized by independent parties designed to stimulate innovative work by promoting the sharing of equipment and the exchange of knowledge through effective contributions to knowledge transfer, networking, dissemination of information and collaboration between businesses</p> <p>The cluster of innovation also means a pole of competitiveness, which is a regional cluster with national and international vocation that can be placed in a single zonal location as well as in areas belonging to several development regions in Romania.</p> <p>An innovation cluster contains at least 10 independent parties organized as trading companies and at least an independent research-development institution (university or R&D institute), it is located in Romania and is constituted in a legal entity type association Or foundation</p>
Time plan for calls	Trim IV 2017
<p>C. Projects for innovative enterprises – start-up and spin-off (Proiecte pentru întreprinderi inovatoare de tip start-up și spin-off) http://newpoc.research.ro/uploads/competitii/ghid-unic/ghid-unic-a-b-c-d-e-f-g-1-1.pdf</p>	
Supported activities	Action 1.2.1: Stimulate companies' demand for innovation through R&D&I projects undertaken by companies individually or in partnership with R & D institutes and universities.
Relevancy of this support programme	Home Care R&I
Reasons of its relevance for Home Care R&I	The projects focus is on thematic areas of smart specialization (Bioeconomy, ITC, Space and Security, Energy, Environment, Eco-Nanotechnologies) and Health, priority area of national interest (5.3 Healthy aging, lifestyle and public health)
Reasons of its relevance for quadruple-helix cooperation in R&I	It does address partially and indirectly the QH model due to the specificity of the programme conditions
Amount of funds	Non-reimbursable financial assistance per project: max. 840.000,00 lei and can not exceed the RON 200,000.00 equivalent at the date of signing the financing contract for a period of three consecutive fiscal years, regardless of whether the aid was granted from national or Community sources.
Objectives	Product development, new / significantly improved technologies / processes for production and marketing purposes
Eligible recipients	<p>Start-ups (Enterprise, set up under Law 31/1990, which records an Up to 3 years in the year of submission of the project;</p> <p>Spin-offs: enterprises to be set up on the basis of a result obtained in Public law research organizations (CD or higher education institution). The project manager is the employee of a public research organization that has participated in the results on which the new proposed spin-off project is based. The "spin-off" projects provide a researcher or group of researchers with the opportunity to get out of the public institution where they have developed a research project and obtained a result, for the purpose of continuing in personal company the solution investigated until its completion in order to produce and market the results on the market</p>
Time plan for calls	closed

<p>D. Projects for new enterprises dedicated to product or process innovation (Proiecte pentru întreprinderi nou- înființate inovatoare care vizează inovare de produs sau de proces) http://newpoc.research.ro/uploads/competitii/ghid-unic/ghid-unic-a-b-c-d-e-f-g-1-1.pdf</p>	
Supported activities	<p>Action 1.2.1: Stimulate companies' innovation demand through R&D&I projects undertaken individually or in partnership with R&D/I institutes and universities</p> <p>Industrial research activities Experimental development activities Innovation activities Activities for the introduction of research and development results into production</p>
Relevancy of this support programme	Home Care R&I
Reasons of its relevance for Home Care R&I	The projects focus is on thematic areas of smart specialization (Bioeconomy, ITC, Space and Security, Energy, Environment, Eco-Nanotechnologies) and Health, priority area of national interest (5.3 Healthy aging, lifestyle and public health)
Reasons of its relevance for quadruple-helix cooperation in R&I	It does address partially and indirectly the QH model due to the specificity of the programme conditions
Amount of funds	Next call 62,82 mil euro
Objectives	<p>To stimulate innovation in innovative start-ups that develop new or substantially improved products and / or processes for production and marketing.</p> <p>To capitalize on research-development results or patented ideas as a starting point for the development of products (goods or services), processes, technologies identified by the applicant as being required on the basis of firm pre-contracts held by the applicant.</p>
Eligible recipients	Enterprises with R&D activities
Time plan for calls	.Next call Trim III 2017
<p>E. Attracting foreign staff with advanced skills (Atragerea de personal cu competențe avansate din străinătate) http://newpoc.research.ro/uploads/competitii/ghid-unic/ghid-unic-a-b-c-d-e-f-g-1-1.pdf</p>	
Supported activities	<p>Action 1.1.4: Attracting staff with advanced skills from abroad to strengthen R&D capacity</p> <p>-fundamental research activities; -industrial research activities; -experimental development activities; -activities related to the preparation of preparatory feasibility studies for RD -activities for the acquisition, validation and protection of industrial property rights (Only for research organizations and SMEs); -information and publicity activities for the project (for research organizations); -project management (for research organizations).</p>
Relevancy of this support programme	Indirect support for Home Care R&I
Reasons of its relevance for Home Care R&I	The projects focus is on thematic areas of smart specialization (Bioeconomy, ITC, Space and Security, Energy, Environment, Eco-Nanotechnologies) and Health, priority area of national interest (5.3 Healthy aging, lifestyle and public health)

	health)
Reasons of its relevance for quadruple-helix cooperation in R&I	It does address partially and indirectly the QH model due to the specificity of the programme conditions
Amount of funds	closed
Objectives	The creation of high-level scientific and / or technological competence nuclei at European standards within a R&D institution, a university or a host enterprise with R&D activity by attracting foreign specialists of any nationality with recognized competence
Eligible recipients	Research organizations Enterprises with research and development activity
Time plan for calls	closed
F. Investment projects for public R & D institutions / universities (Proiecte de investiții pentru instituții publice de RD/ universități) http://newpoc.research.ro/uploads/competitii/ghid-unic/ghid-unic-a-b-c-d-e-f-g-1-1.pdf	
Supported activities	Action 1.1.1 Large R&D infrastructures Construction of new laboratories, research centers, obligatory accompanied by equipment and research tools; Modernization, extension, consolidation and change of destination of laboratories, existing research centers, accompanied by compulsory equipping them with research equipment and tools; Acquisition of research equipment and tools.
Relevancy of this support programme	Home Care R&I
Reasons of its relevance for Home Care R&I	The projects focus is on thematic areas of smart specialization (Bioeconomy, ITC, Space and Security, Energy, Environment, Eco-Nanotechnologies) and Health, priority area of national interest (5.3 Healthy aging, lifestyle and public health)
Reasons of its relevance for quadruple-helix cooperation in R&I	It does address partially and indirectly the QH model due to the specificity of the programme conditions
Amount of funds	Next call 55,9 mil Euro
Objectives	Supporting public research institutions to increase their R & D capacity and knowledge transfer by creating or upgrading research centers / laboratories / facilities that can serve the innovation requirements of existing or emerging cluster structures from competitive economic sectors or potential for growth at national level or in the communities where these research investments are being developed. Investments for the development of corporate R & D departments aim to encourage increased R & D capacity and innovation to increase the level of innovation and market competitiveness of enterprises and increase private R & D investment.
Eligible recipients	Research organizations
Time plan for calls	Trim IV 2017
G. Knowledge transfer partnerships (Parteneriate pentru transfer de cunoaștere) http://newpoc.research.ro/uploads/competitii/ghid-unic/ghid-unic-a-b-c-d-e-f-g-1-1.pdf	

1-1.pdf	
Supported activities	<p>Action 1.2.3: Knowledge transfer partnerships</p> <p>A. - Transfer of knowledge through:</p> <ul style="list-style-type: none"> -direct assistance to help businesses, including those businesses that do not had collaborative activities with the research organization, to identify from the offer of available research organization expertise that one that suits the needs and requirements of the business they want to develop -Regular thematic events to provide inspirational insights and ideas for those enterprises that have been involved in R&D&I projects with the research organization, along with the opportunity to be invited members of the teams of academics (professors / researchers) conducting research activities in collaboration with industry. <p>B. - Business access to facilities, research equipment of research organization in order to perform analyzes, tests, experiments, etc. needed to develop new or improved new products / technologies / methods.</p> <p>C. - Transfer of R & D skills and competences, and support for innovation, Including contractual research executed at the request of the enterprise (RD activities offered by the research organization) and the posting of specialized personnel from the organization research to enterprise</p> <p>D. - Research and development realized in effective collaboration with an enterprise.</p>
Relevancy of this support programme	Home Care R&I and partially the QH cooperation
Reasons of its relevance for Home Care R&I	The projects focus is on thematic areas of smart specialization (Bioeconomy, ITC, Space and Security, Energy, Environment, Eco-Nanotechnologies) and Health, priority area of national interest (5.3 Healthy aging, lifestyle and public health)
Reasons of its relevance for quadruple-helix cooperation in R&I	It does address partially and indirectly the QH model due to the specificity of the programme conditions (the knowledge producer and the knowledge receiver)
Amount of funds	Next call 53,23 mil euro
Objectives	<p>To encourage the interaction of higher education institutions and R & D institutions with the business environment by funding access to extensive expertise for enterprises and the facilities of research organizations to market research results to businesses that are developing business-demanded businesses.</p> <p>To this end, partnerships will be established between research organizations and businesses / business groups interested in acquiring knowledge, including skills and competences that will meet strategic business development needs and provide innovative solutions for product and process acquisition, new / Improved businesses identified as being required by the market.</p>
Eligible recipients	Research organizations governed by public law
Time plan for calls	Trim III 2017

Evaluation of applications

This section presents the evaluation process of all calls gathered from desk research and interviews with Ministry of Research and Innovation staff.

Evaluation process for applications set up the	No, evaluation process is different for various support programmes / calls and it
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same way for all support programmes calls?	is described in an official procedure of POC project evaluation issued by the IB
Where are the evaluators from?	Evaluators are independent experts from Romania and most of them mainly from abroad
Who evaluates applications of each of the support programme / intervention area call?	External expert evaluators registered at IB's data base with evaluators obtained after a specific call of IB Eol for evaluators
Which evaluation criteria are used with what weight in each of the support programme.	<p>For A:</p> <p><u>1. Relevance and socio-economic impact of the project</u> (weight = 4)</p> <p>1.1 Contribution of the project to the increase of the research performance, of the international cooperation and the development of the company's capabilities for the use of the R&D results</p> <p>1.2 The extent to which the proposed investment will contribute to the achievement of directly applicable market outcomes and will increase the competitiveness of the company</p> <p>1.3 Degree of novelty / uniqueness of the equipment and / or equipment proposed by the project in a national context compared to the international context</p> <p>1.4 Relevance of the economic sector in which the anticipated R & D results for the Competitiveness Strategy / Sectoral Strategies / Regional Strategies</p> <p>1.5 Number of new jobs, respectively jobs created and occupied in RDs within the company as a result of project implementation</p> <p><u>2. Quality and maturity of the project</u>(weight = 3)</p> <p>2.1. The correlation between the proposed activities, the necessary resources and the results of the project, the quality of the proposal</p> <p>2.2 Degree of preparation / maturity of the project</p> <p>2.3 Structure and justification of the proposed budget</p> <p>2.4 Project Implementation Methodology</p> <p>2.5 Project implementation / management capability</p> <p><u>3. Sustainability of the project and ability of the applicant to operate</u>(weight = 3)</p> <p>3.1 The net cash flow generated by the business in the implementation variant of the project, on the investment analysis horizon, is positive</p> <p>3.2 Capacity to maintain, maintain, and operate the investment after project closure and cessation of non-reimbursable financing</p> <p>3.3 The existence of an experienced team in the supported R&D department and the ability to maintain or develop R&D activities after project completion</p> <p>3.4 Market analysis supports the demand for the products / processes / services resulting from the implementation of the project</p> <p>3.5 Contributing to the promotion of sustainable development and equal opportunities</p> <p>For B:</p> <p><u>1. Relevance of the proposed cluster and project</u> (weight = 4)</p> <p>1.1 Relevance of the cluster Economic relevance of the cluster at regional / national / international level; Cluster integration degree in the covered geographical area; Interaction of education-research-industry within the cluster; The competitive advantages of the cluster and the opportunities for growth.</p> <p>1.2 Scientific and economic relevance of the project The extent to which the project will develop new activities or research directions within the cluster; The extent to which the proposed project will contribute to stepping up cluster innovation activities and delivering directly applicable market outcomes;</p>

Relevance of the economic sector in which the draft for the National Competitiveness Strategy and other sectoral strategies and / or regional innovation strategies are included;
Relevance of the project to increase international cooperation

2. Project quality and maturity (weight = 3)

2.1. The project's consistency and feasibility

Correlation between the proposed activities, the necessary resources and the purpose of the project;

Degree of preparation / maturity of the project;

Feasibility of the project:

- the coherence of the documentation

- the consistency of the data from the substantiation note and the SF with the data in the application;

The structure of the project budget.

2.2. Project implementation capacity

Methodology for project implementation;

The capacity of the implementation team and the project management team.

3. Socio-economic impact and project sustainability (weight = 3)

3.1 Socio-economic impact

Contribution of the project to increasing the economic competitiveness of the cluster in the field of the project;

Number of new jobs created or maintained at the cluster level;

Contribute to promoting sustainable development and equal opportunities.

3.2 Sustainability

The cluster's ability to continue the proposed activities with the investment made after the end of the non-reimbursable financing;

The existence of an experienced team within the supported R&D units / laboratories;

The quality of the strategic and administrative support provided by the organization that manages and operates the cluster (the direct beneficiary of the project).

For C:

1. Relevance of the project (weight = 4)

1.1. The scientific and / or innovation input of the project

1.2. Viability of project implementation by obtaining results applicable in the economy

1.3. The contribution of the project to the development of R&D&I activities in the enterprise

1.4. Developing products / technologies / processes / services that respond to a problem / needs / opportunities identified in a particular area / economic sector

1.5. The possibility of creating new jobs within the enterprise due to the project

2. Quality and maturity of the project (weight = 3)

2.1. The correlation between the proposed activities, the necessary resources and the purpose of the project

2.2. Project preparation / maturity level, project budget / Reasonability analysis of the values included in the indicative budgets of the Grant Application

2.3. Project implementation methodology and assumed risks

2.4. Project implementation capacity

2.5. Quality of Business Plan

3. Sustainability of the project and capacity of the applicant for operation (weight = 3)

3.1. Financial sustainability of the proposal

3.2. Contributing to sustainable development and equal opportunities

3.3. Correlation of financial data

- 3.4. Level of cooperation
- 3.5. Institutional administrative sustainability

For D:

1. Relevance of the project (weight = 4)

- 1.1 The innovative character of the project and its contribution to the development of the economic sector to which the outcome of the project is based on the use of research results
- 1.2 Contribution of the project to increasing the competitiveness of the enterprise
- 1.3 Increasing the technological level of the enterprise
- 1.4 Developing the company's skills to use R & D results and the ability to cooperate with other research organizations, other enterprises / institutions in the same sector or other sectors / R&D domains
- 1.5 The possibility of creating new jobs within the enterprise.

2. Quality and maturity of the project (weight = 3)

- 2.1. Impact of non-reimbursable funding on enterprise competitiveness
- 2.2. The correlation between the proposed activities, the necessary resources and the purpose of the project
- 2.3. Project implementation methodology and assumed risks
- 2.4. Coherence and maturity of the project
- 2.5. Project implementation capacity

3. Sustainability of the project and capacity of the applicant for operation(weight = 3)

- 3.1 Financial sustainability
- 3.2 Quality of the business plan
- 3.3 Market analysis supports the demand for products, technologies, services resulting from project implementation and the financial estimate of revenues and expenditures has been achieved in accordance with this
- 3.4 The company's ability to operate the project results
- 3.5 Contributing to the promotion of sustainable development and equal opportunities

For E:

1. Scientific relevance and impact of the project (weight = 4)

- 1.1 The novelty of the proposed scientific result / solution
- 1.2 The extent to which the proposed project will contribute to achieving (directly) market-relevant results
- 1.3 The contribution of the project to the development of the applicant's scientific competitiveness and the increase of international cooperation
- 1.4 The extent to which the project will lead to the creation and employment of us Research jobs
- 1.5 Increasing the applicant 's research capacity as a result of project

2. Quality and maturity of the project (weight = 3)

- 2.1. The correlation between the proposed activities, the necessary resources and
The results of the project
- 2.2 Coherence and maturity of the project
- 2.3 Project Implementation Methodology
- 2.4. Specialist from abroad: experience and managerial qualities
- 2.5 Capacity of the proposed team to implement the project

3. Sustainability (weight = 3)

- 3.1 Capacity to financially support the research team created under the leadership of a high-level international specialist after the grant has ceased
- 3.2 Ability to financially support the research activity of the research organization / organization after the project is completed

- 3.3 Ensuring technical and administrative support
- 3.4 Market analysis supports the demand for the research products / technologies / services resulting from the project
- 3.5 Contribution to promoting sustainable development and equal opportunities

For F:

1. Relevance and socio-economic impact (weight = 4)

- 1.1 Institutional performance of the applicant
- 1.2 The extent to which the proposed investment will contribute to obtaining research results that are directly applicable in the economy
- 1.3 Degree of novelty / uniqueness of the equipment and / or equipment proposed by the project in a national context compared to the international context
- 1.4 Relevance of the economic sector in which the project for sectoral strategies and / or regional strategies is included
- 1.5 Number of jobs created or maintained as a result of project implementation

2. Quality and maturity of the project (weight = 3)

- 2.1. The correlation between the proposed activities, the necessary resources and the purpose of the project
- 2.2 Degree of preparation / maturity of the project
- 2.3 Structure and justification of the proposed budget
- 2.4 Project Implementation Methodology
- 2.5 Project management team capacity

3. Sustainability of the project and ability of the applicant to operate (weight = 3)

- 3.1 The net cash flow generated by R&D activities in the project implementation variant, on the investment analysis horizon, is positive
- 3.2 Capacity to maintain, maintain, and operate the investment after project closure and cessation of non-reimbursable financing
- 3.3 Capacity to increase international cooperation and research performance.
- 3.4 Provide technical and administrative support to the infrastructure, including the existence of an experienced team in the supported R&D department
- 3.5 Contributing to the promotion of sustainable development and equal opportunities

For G:

1. Relevance of the project (weight = 4)

- 1.1 Scientific and economic relevance
 - The contribution of the project to the global development of the field in question, regarding the economic competitiveness of the economic sectors to which the research results are transferred
 - Relevance of the scope of the draft for the National Competitiveness Strategy and other sectoral strategies and / or regional innovation strategies
- 1.2 Impact of the project
 - The contribution of the project to the development of the technology transfer component within the applicant institution and to the increased cooperation with the enterprises
 - The extent to which the project will contribute to enhancing business innovation activities based on the transferred results directly applicable in the market
 - Number of new business contracts
 - Contribute to promoting sustainable development and equal opportunities

2. Quality and maturity of the project (weight = 3)

- 2.1. Coherence and feasibility of the project
 - The correlation between the proposed activities, the necessary resources and the purpose of the project
 - Degree of preparation / maturity of the project

	<p>-The structure of the project budget</p> <p>2.2. Project implementation capacity</p> <ul style="list-style-type: none"> -Project implementation methodology -The capacity of the proposed team to implement the project -Provide technical and administrative support -Risk analysis <p>3. <u>Experience and sustainability</u> (weight = 3)</p> <p>3.1. The proven experience in conducting direct business deals and transferring results</p> <ul style="list-style-type: none"> -Institutional experience of the applicant on direct contracts with enterprises over the last 5 years on the domain (s) proposed in the project (as number of contracts and diversity of enterprises) -Institutional experience of the applicant on direct contracts with enterprises over the last 5 years on the domain (s) proposed in the project (as value of the contracts) <p>3.2 Sustainability</p> <ul style="list-style-type: none"> -Applicant's ability to continue to cooperate with medium- and long-term business after the grant is discontinued -Determining the applicant to establish structures dedicated to the transfer of knowledge (scientific park, institute / center for technology transfer, etc.)
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Governance of the relevant thematic priority axis of the Operational Programme

This section presents the evaluation process of all calls gathered from desk research and interviews with Ministry of Research and Innovation.

Main management bodies that influence the OP	<p>The Intermediate Body (IB) for Research fulfills the tasks delegated by the Managing Authority (AM) for COP 2014-2020, Priority Axis 1 "RDI in Support of Economic Competitiveness and Business Development" and Operational Program Increase of Economic Competitiveness (POSCCE 2007-2013)), Priority Axis 2 "Competitiveness through Research, Technological Development and Innovation" by agreement of the parties involved.</p> <p>The IB for Research is organized and operates at Directorate General level within the Ministry of Research and Innovation (MRI).</p> <p>To achieve the goal, IB Research performs the following functions:</p> <ul style="list-style-type: none"> -Programming by participating in the elaboration of all programming documents for the POC program, for the specific field of research, development, innovation; -Launching calls for project proposals, evaluating, selecting and contracting projects for the priority axes of the programs for which it is an intermediary body; -Monitoring of projects funded under the priority axes of the programs for which it is an intermediary body; -Ensuring financial management and control, administrative and on-site verification; -Ensuring the management of irregularities; -Information and communication with potential beneficiaries, beneficiaries and the general public; -Design and implementation of financial instruments; -Ensure the realization of major projects.
Possibilities to influence the OP outside of committees?	yes
How?	The COP was developed under the coordination of the Ministry of Regional Development, Public Administration and European Funds (MA-MRDPAEF)- as a management authority. The public institutions directly involved in the elaboration

	<p>of the two priority axes that ensured consultations with the relevant public and private partners were the Ministry for Research and Innovation (MRI) through IB for PA1 - RDI, respectively Ministry for Communication and Information Society (MCIS) through IB for AP2 - ICT. These institutions MRI and MCIS are involved in the implementation.</p> <p>In the process of establishing interventions, the two public institutions involved a number of relevant partners. Thus, for PA1, the following relevant public partners were involved:</p> <ul style="list-style-type: none"> • Ministry of Economy - to ensure the correlation with the provisions of the National Competitiveness Strategy • Ministry of Health - in order to ensure the correlation with the provisions of the National Health Strategy 2014-2020, given that the POC supports through Axis 1 the research and innovation in the field of health • Local / County Public Authorities - for the planning of the major projects Extreme Light Infrastructure - Nuclear Physics (ELI-NP) and the International Center for Advanced Studies on River-Delta-Mare Systems (DANUBIUS-RI) • National R&D Institute, institutes of the Romanian Academy and universities.
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2. SMART specialization strategy – RIS3

The “SMART specialization strategy – RIS3” section provides more detailed information on defined RIS3 in the region and on main supported R&I areas contributing to Home Care R&I.

SMART specialization strategy on the same level as above described Structural Fund? (e.g. national-national, regional-regional)	yes
RIS3 R&I specialization segments contributing to Home Care R&I support?	The projects under COP 2014-2020 have their focus on thematic areas of smart specialization (Bio-economy, ITC, Space and Security, Energy, Environment, Eco-Nanotechnologies) and <u>Health, the priority area of national interest</u> . The topic related with Home Care and R&I support is registered as <u>5.3 Healthy aging, lifestyle and public health</u> and it is included in Annex 3 Domains, of the COP Guide for Priority Axis 1.

3. Other policy instruments relevant for Home Care R&I

The “other policy instruments relevant for Home Care R&I” section provides information on other policy instruments supporting R&I in Home Care, following the same description as for the Operational Programme described above.

Competitiveness Operational Programme 2014-2020 COP , Priority Axis 2 (Programul Operational Competitivitate 2014-2020, POC Axă Prioritară 2) http://www.fonduri-ue.ro/poc-2014	
Geographical coverage	National with different budget limits for developed and less developed regions within the country
Managing Authority	The Managing Authorities (MA) for COP is within the Ministry of Regional Development, Public Administration and European Funds (MA-MRDPAEF)
Intermediate body	Intermediate Body (IB) for Information Society Promotion within the Ministry for Communication and Information Society for Priority Axis 2 Information Technology and Communication (ITC) for a competitive digital economy

	(Tehnologia Informației și Comunicației (TIC) pentru o economie digitală competitivă) http://fonduri.mcsi.ro/?q=node
General objectives	<p>COP supports investment to meet the needs and challenges of the low level of economic competitiveness, in particular as regards: (a) insufficient support for Research & Development and innovation (R&D&I), and (b) underdeveloped ICT infrastructure.</p> <p>COP is developed taking into account the relevant strategic documents at European level and on the basis of the relevant national strategic documents: National Strategy for Research, Development and Innovation 2014-2020; National Strategy for the Digital Agenda for Romania 2014-2020; NGN National Infrastructure Development Plan (Next Generation Network).</p>
Names of priority axes supporting Home Care R&I	<p>Priority Axis 2 Information Technology and Communication (ITC) for a competitive digital economy (Axa Prioritara 2 Tehnologia Informației și Comunicației (TIC) pentru o economie digitală competitivă) http://fonduri.mcsi.ro/?q=node</p> <p>Action 2.3.3 Improving digital content and systemic ICT infrastructure in e-education, e-inclusion, <u>e-health</u> and e-culture)</p> <p>(Acțiunea 2.3.3 Îmbunătățirea conținutului digital și a infrastructurii TIC sistemice în domeniul e-educație, e-incluziune, e-sănătate și e-cultură)</p>
Specific objectives of the given priority axis	<p>Specific Objective SO 2.4 "Increasing Internet Usage"</p> <p>Integrated projects with a national strategic impact are implemented, targeting as many target groups as possible and proposing solutions that are more effective to be implemented at the systemic, horizontal, national level.</p>
Support programmes relevant for Home Care R&I available in this policy instrument?	<p>Priority Axis 2 - Information and Communication Technology (ICT) for a competitive digital economy, hereinafter referred to as Priority Axis 2 - ICT, contributes directly to the implementation of the National Digital Agenda for Romania 2020, approved by H.G. 245/2015.</p> <p>The purpose of the Axis 2 actions is to ensure, on the one hand, coherent and uniform application of ICT tools in all public systems implemented in Romania, as well as their communication / correlation with the relevant European systems.</p> <p>Investment Priority 2c. Strengthen ICT applications for e-government, e-learning, e-inclusion, e-culture, <u>e-health</u>.</p>

4. Regional innovation ecosystem in Home Care R&I

The section provides a view on regional innovation ecosystem in Home Care R&I including a general description overview of the ecosystem followed by a list and a description of the most important supporting platforms, networks, events, major projects carried out already and most significant actors in all 4 helixes of quadruple-helix cooperation approach – formal and informal providers of health care (helix1), businesses (helix2), research (helix3) and public and public institutions (helix4)– who might work together for innovations in Home Care.

Summary description of regional innovation ecosystem in Home Care R&I

Summary description of regional innovation ecosystem in Home Care R&I

including the most significant main actors, infrastructure, resources, available public / private supporting services, networks, platforms and events)

In the current innovation ecosystem, Home Care (HC) research field is considered as a subtopic of Health

domain The whole approach to HC for the elderly is based on the general principle that elderly people should be maintained in their living environment. Consequently, HC for dependent elderly people is the first measure of support for them..

To this end, the National Health Strategy 2014-2020 is adopted at governmental level, a framework instrument designed to allow a strong articulation to the European context and strategic directions formulated in the World Health Organization's Europe 2020 Strategy (Health 2020) Europe Region and is part of the seven flagship initiatives of the "Europe 2020 Strategy" for catalysis the progress for smart, sustainable and inclusive growth. At the same time, the overall framework for the development of health policies in Romania for the period 2014-2020 took into account the reform measures proposed in report "The functional analysis of the health sector in Romania" carried out by the World Bank experts.

The implementation of the strategy is based on collaborative activities, both at the level of the specialists and at the level of the institutions which get actively involved and which get coordinate to maximize the results. The strategy also relies not only on a limited sectoral approach but on a cross-intersectoral approach, involving all sectors and segments of society.

The following cross-cutting measures can be distinguished:

- Promoting research and innovation in health domain;
- Intersectoral collaboration for a better health status of the population, especially of the vulnerable groups;
- Developing an integrated informatic system in the field of health through the implementation of sustainable e-health solutions;
- Increasing access to health services through the use of telemedicine services.

In this context, the issue of HC for the elderly is directly supported by the National Strategy for Promotion of Active Aging and the Protection of the Elderly for the period 2015-2020, the Operational Action Plan for the period 2016-2020 as well as the Monitoring Mechanism and their Integrated Assessment.

The mission of governmental policies implementation with reference to this issue is based primarily with the Ministry of Labor, Family, Social Protection and Eldery Persons (Ministry of Labor and Social Justice- new name) and the Ministry of Health.

The legislative regulations have created a comprehensive and permissive regulatory framework appropriate to the deployment and development of all activities in the sphere of home care services. They are based on the following values and principles that address the HC topic: - individual approach; - partnership, according to which central and local public authorities, public and private institutions, non-governmental organizations, cult institutions recognized by law and community members set common goals, collaborate and mobilize all the resources necessary for optimal HC service achievement;- effectiveness;- efficiency;- competition and competitiveness; - the right to choose freely the HC services provider.

HC service providers are natural or legal persons, governed by public or private law.

Public HC service providers can be:

- specialized structures subordinated to the local public administration authorities and the executive authorities in the administrative-territorial units. The local public administration authorities have the obligation to identify, first of all, the solutions for the provision of home care services and to provide these services to single elderly dependent persons or whose families cannot provide care for them.
- specialized structures subordinated to central public administration authorities or other institutions subordinated or coordinated by them with tasks related to the provision of HC services;
- health establishments, educational establishments and other public institutions that develop integrated social services at community level.

Private HC service providers may be:

- non-profit type:
 - non-governmental organizations, associations and foundations respectively,
 - subsidiaries and branches of international associations and foundations recognized by law;
 - cults recognized by law;
- profit type:
 - authorized natural persons;
 - economic operators under the conditions stipulated by the law.

The organization, administration and delivery of HC services are in the responsibility of the local public administration authorities. These attributions may be outsourced to the non-governmental sector, cult institutions, and other natural and legal persons of public or private law.

HC services funding is provided from the local budget, the beneficiary's contribution and/or, as the case may be, from its family, state budget, and other sources (eg. public donations) to meet at least minimum quality standards for HC service for the elderly.

Grants are also provided to Romanian associations and foundations with legal personality, which set up and administer social assistance units, including HC services.

The minimum HC services provided by law to elderly people at home are:

- Social services mainly related to the care of person, prevention of social marginalization and support for social reintegration, legal and administrative counseling, support for the payment of current services and obligations, housing and household care, housekeeping, food preparation;
- Socio-medical services mainly related to helping to achieve personal hygiene, rehabilitating physical and mental capacities, adapting the dwelling to the needs of the elderly and engaging in economic, social and cultural activities, as well as temporary care in day care centres, night shelters or other specialized centers;
- Medical services in the form of consultations and medical care at home or in health care facilities, dental consultations and care, medication administration, provision of sanitary equipment and medical devices.

This package of minimum services (24 basic medical services) is ordered by the National Health Insurance House (Casa Nationala de Asigurari de Sanatate), an autonomous public institution of national interest, which administers and manages the social health insurance system for the implementation of the Government policies and programs in the sanitary domain, acquires services from certified home care providers.

By law, public organizations can provide home care services by developing their own services or by purchasing them from authorized suppliers through the national public procurement system.

Concluding, from a legislative point of view, can be distinguished the opening up and preoccupation of the decision-makers at all levels, to adopt efficient solutions for home care domain either through their own development or through technological transfer and best practices transfer from third parties.

It also gives broad freedom and support to the other components of the quadruple helix (QH), academic, civil society and industry, to develop innovative solutions. One can see the existence of a vision centered on encouraging actors' cooperation to build an innovation ecosystem based on the Quadruple Helix approach.

The Ministry of Research and Innovation (<http://www.research.gov.ro/ro/articol/4481/sistemul-national-de-cercetare>) organizes and runs the national scientific research, technological development and innovation system (R&D&I). The national research and development system consists of all the units and institutions of public law and private law with legal personality, which have as their object research - development.

The following categories of units and institutions are included in the national R&D&I system:

A. Units and institutions of public law:

- 1) institutes, centers or research-development centers organized as public institutions;
- 2) research - development institutes or centers organized within national societies, national companies and autonomous administrations or central and local public administration;
- 3) international research and development centers established on the basis of international agreements;
- 4) other public institutions or their structures, which have as their object research - development.

B. Units and institutions of private law:

- 1) research and development units organized as commercial companies;
- 2) commercial companies, as well as their structures, which have as object the research- development activity;
- 3) accredited private higher education institutions or their structures.

From this R&D&I system, a distinct entity is the R&D system of national interest, which comprises the following categories of units of public law, with legal personality:

- National R&D institutes;
- Institutes, centers or research centers of the Romanian Academy;
- Accredited higher education institutions or their structures;
- Institutes or R&D centers organized within national societies, national companies and autonomous regies (companies named regie) of national interest.

The R&D&I system in Romania comprises 263 public R&D&I organizations and about 600 enterprises. Of the public organizations, 56 are publicly authorized universities, 46 are national R&D institutes (43 of which are coordinated by MCI others are coordinated by Ministries of sector), and 65 are research institutions and centers of the Romanian Academy.

The National Innovation and Technology Transfer Network ReNITT comprises 50 specific organizations: Technology Transfer Centers, Technology Information Centers, Technology and Business Incubators, 4 Science and Technology Parks. <http://site.roinno.ro/?module=info&id=7>

Romanian Association for Technology Transfer and Innovation ARoTT - is a professional organization of technological transfer and innovation profile units, a non-governmental and non-profit organization. It acts as a network that supports technology transfer and innovative entities, promotion Innovative products and technologies and ensuring access to research results http://www.arott.ro/index.php?menu_id=100

In this legislative context, besides the mentioned institutions, exist from public or private initiative, organizations that have as aim the care of elderly at home. Among these can be enumerated:

Organizational initiatives:

- In order to provide quality services and to ensure efficient management at the initiative of the Ministry of Labor, Family, Social Protection and Aged Persons, the public and private home care providers are organized in Home Care Units so that to cover the territorial area and the number of beneficiaries.
- The National Council of Aged Persons, with representation at counties and Bucharest municipality level in councils of aged persons, is an autonomous, consultative body of public interest and aims to institutionalize the social dialogue between the elderly and the public authorities in order to protect the rights and freedoms of these persons;
- Over 50 HC service providers are organized into a national network of HC providers called the SenioriNet Network.
- The presence of an increasing number of providers of socio-medical care services at home.
- Private initiatives to provide this type of service at the beneficiary's home using high technological level portable equipment that covers a wide spectrum in the domain of diagnosis and treatment. For example: medical imaging, EKG, EEG, blood analysis, etc..Among these, besides specialized departments of hospitals, can be enumerated private providers such as: - Doctor Home Clinic, - Home Med Care , - Ghencea Medical Center , - Ambra Medical Center. Telemedicine Initiatives:- Adomedica Medical Center,

In Romania, telemedicine has been successfully implemented in emergency medicine, over 100 hospitals being interconnected following the development of a World Bank pilot project.

The system is applied both in pre-hospital emergency care (the ambulances being equipped with remote information transmitting equipment to a coordination center), as well as in inter-hospital collaboration, (the emergency receiving departments being interconnected) or especially with reference centers that can give advice or make decisions together on transferring the patient.

The pre-hospital telemedicine system was first implemented in 2003. It has been developed nationwide, so there are currently more than 1200 ambulances equipped with telemedicine system, of which 100 have a video system for transmission from the place of intervention.

There are some annual events under which networking in the field of HC could occur but they are mainly dedicated to health care not specifically to HC.

Existing platforms, networks and events supporting Home Care R&I

Existing platforms / networks supporting Home Care R&I	<p><u>National Council of Elderly People</u> Consiliulul Național al Persoanelor Vârstnice http://www.cnpv.ro/</p> <p><u>The Institute for Research on Quality of Life</u> institutul de cercetare a calitatii vietii http://iccv.ro/</p> <p><u>Home Care Services Providers Senior net,</u> Reteaua furnizorilor de ingrijire la domiciliu http://www.seniorinet.ro/</p>
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	<p><u>White-Yellow Cross Foundation</u> Fundatia Crucea Alb-Galbenă România (CAGR) http://www.cag.ro</p>
<p>Existing regular events (both formal and informal) supporting Home Care R&I</p>	<p>No regular events on HC R&I. The occasional events are the dissemination activities under national or international projects dealing with HC R&I.</p> <p>Current events are connected with NGO (Agora (e-Health conference) dissemination activities as well as the with the dissemination activities of projects and actions in the field of health and home care of entities from R&D&I system or professional organization active in the health system.</p> <p>However, the innovation is disseminated at the <u>Annual Forum for Innovation</u> (http://arott.ro/forum2016/) organized by AroTT, Ministry of R&I at Romexpo in connection with <u>Annual International Fair Bucharest</u> (TIB). <u>A National Congress of Geriatrics & Gerontology</u>, with topics on elderly health aspects, is held annually and organized by the National Institute of Gerontology and Geriatrics "Ana Aslan", Bucharest. http://www.ana-aslan.ro/</p>

Main actors in Home Care R&I in all 4 helixes of quadruple-helix model – formal and informal providers of health care, businesses & business supporting actors, research and public institutions

This section is based on available information from desk research and interviews with innovation actors and does not constitute a full exhaustive list.

1. Citizens / users helix

Main formal + informal providers of healthcare, elderly care recipients / associations in Home Care R&I	
Name + website	Description of activities focused on in that field
<p>Filantropia Federation (11 Romanian orthodox associations, foundations) Federatia Filantropia (11 asociatii, fundatii crestin ortodoxe din Romania) http://federatia-filantropia.ro/</p>	<p>Provides social services, health care and HC for free for old people from federation own resources or based on public procurement.</p>
<p>CARP Association Humanity Bucharest Asociatia CARP Umanitatea Bucuresti http://www.carp-umanitatea.ro</p>	<p>Develops studies and analysis of old people situations and provides help for health care and HC.</p>
<p>Caritas Confederation Romania (10 association in 30 counties) Confederatia Caritas Romania (10 asociatii in 30 judete) http://www.caritasromania.ro</p>	<p>Provides for old people health care, home care and social services from own resources or based on public procurement</p>
<p>Seniorinet NGO network with services dedicated to older people Seniorinet Retea de ONG cu servicii dedicate persoanelor in varsta http://www.seniorinet.ro</p>	<p>Provides studies and analysis on old people situations Provides help for health care and homecare Shares good practices in home care and healthcare at national and international level Makes legislative proposals in the field of HC services</p>
<p>National Association of</p>	<p>Provides studies and analysis of old people situations</p>

Pensioners in Romania Asociatia Nationala a pensionarilor din Romania http://www.anpr.org.ro/	Provides help for health care and homecare
National Council of Elderly People Consiliul National al Persoanelor Varstnice http://www.cnpv.ro	Provides studies and analysis of old people situations for health, home and social care

2. Business helix

Main businesses and business supporting actors in Home Care R&I		
Name + website	Business or business supporting actor	Description of highly innovative solutions provided in that field
ARoTT - Romanian Association for Technology Transfer and Innovation is a professional organization of technological transfer and innovation profile units, a non-governmental and non-profit organization	business supporting	Companies belonging to ARoTT addressed the topic innovation in health care but not specifically home care
"Ana Aslan" Foundation Fundatia Ana Aslan http://www.ana-aslan.ro/fundatia-ana-aslan	business supporting	The "Ana Aslan" Foundation is a non-profit society that aims to promote culture, science and public assistance in favor of the elderly population. Develops and supports the Ana Aslan prophylaxis and treatment method, the research activity, medical and social care, education, methodology, information and documentation, editorial appearances Proposes the creation of public assistance and charity works, the awarding of scholarships and prizes for outstanding achievements in the field. Contribute to the construction and endowment of a modern and advanced medical science and assistant medical facility, endowed with 500 beds, laboratories and the polyclinic, which will be an integral part of the "Ana Aslan" Foundation, with possibilities for extension.
MedLife https://www.medlife.ro/noutati/consult-la-domiciliu-disponibil-in-cadrul-medlife	business	Provides home care on request and subscription
Biotechnic Romania http://www.biotechnic.ro/	business	Provides Imported solutions for medical prosthetics
Firma Oldcare de ingrijire la domiciliu http://www.oldcare.ro/	business	Imported solutions and models on social and medical assistance
Firma Home Health Care Solutions	business	Imported solutions and models from UK and USA
Teamnet Group http://www.teamnet.ro/teamnet-group/group-structure/teamnet-dedalus/	business	Provider of e-Health solutions for both public and private health care, in Romania. The company has emerged from a strategic partnership with Dedalus SpA, as a leader in software solutions for the public and private health care system in Italy

Tehnoplus® Medical http://www.tehnoplus.ro/	business	Production of Romanian medical equipment, marketing and service of medical equipment
Firma Total Med – aparatura medicala http://tmsro.ro/	business	Imported solutions for medical equipment
Sofmedica http://www.sofmedica.com	business	Making Innovative Life-saving Technologies available to the most remote Patient in Southeast Europe & adding Value to the local Healthcare System by bridging the Distance between the Innovating Medical Industry, healthcare professionals and SEE patients.
Geron Foundation Fundatia Geron http://www.geron.ro	business	Started in 1991 offered to the elderly free HC services. Since 1995 it is focused on dependent and semi-dependent people and has developed services on this direction. Services offered: Home care, Physical therapy at home, Alzheimer's Day Center, Residential Center (Camin) Casa Geron, Club of Seniors, Geriatric University, Complex Geriatric Assessment.

3. Research helix

Main research actors in Home Care R&I	
Name + website	Description of excellent research activities done in that field (e.g. patents in this field)
Ana Aslan International Foundation Fundatia Ana Aslan International http://www.anaaslanacademy.ro/	<p>A non-profit, non-governmental organization, which carries out its activity in accordance with the provisions of the GO on associations and foundations, in accordance with the Methodological Norms of the Ministry of Health regarding Organization and operation of medical centers; to the provisions of the Law on mental health and the protection of persons with mental disorders and Law on the protection of individuals with regard to the processing of personal data and the free movement of such data.</p> <p>The structures created under the aegis of Ana Aslan International Academy of Aging in order to meet the objectives assumed respect the documents and recommendations of the World Health Organization, the European Union, the International and European Consortiums in the field of anti-aging medicine, longevity and prevention of age-related pathology.</p> <p>Is founding member of European Alzheimer's Disease Consortium (EADC); European Association for Predictive, Preventive and Personalized Medicine (EPMA); LiveWell Community; Networking for the Market of ICT for AgeingWell; European Network for Fall Prevention, Intervention & Security (E-NO FALLS); Community Functionality for People with Dementia (CONFIDENCE); Romanian Brain Council - Founding member</p> <p>Its European research projects: E-NO FALLS: The European Prevention, Intervention and Failure Safety Network K4CARE: Home based e-services based on knowledge, in an aging Europe. LiveWell: Promoting a Healthy Living for Parkinson's Patients through a Social ICT Network for Education and Training MOBILE.OLD: Services for increasing the mobility of elderly people at home and on the road MobileSage: Contextual Intelligence Assistance to Elderly Mobility MyMate: Collaborative Platform for Promoting Long-Term Care and Home Assistance Revolution: Real-time volunteer solutions CarerSupport: SeniorTV: Providing formal and informal home care services through ICT Share-it: Assisting human autonomy with information technologies to improve</p>

	<p>and recover cognitive and motor skills. CarerSupport: TSBank: "Time and Skills Bank" for Active Aging AnaAslan International Academy of Aging is a trademark registered and protected in Romania, registered with the State Office for the Protection of Inventions and Trademarks "OSIM"</p>
<p>National Institute of Gerontology and Geriatrics "Ana Aslan" Institutul National de Gerontologie si Geriatrie Ana Aslan www.ana-aslan.ro</p>	<p>The first in the world, the Institute of Gerontology and Geriatrics was founded in Romania, in 1952 by the Council of Ministers and became the National Institute in 1974, and in 1992 was named "Ana Aslan". Until 1988, the Institute has been led by Acad. Prof. Ana Aslan, for geriatric care, social research and gerontology. In 1964, the WHO president named it as a Model Institute of Geriatrics for Developed Countries. In 1974 the Institute extends with a new clinical section in a natural setting in Otopeni (17km from Bucharest). The first drug created to delay the aging process Gerovital was developed between 1946 and 1956 by Prof. Dr. Ana Aslan and published together with Prof. Cl Parhon in 1955, presented for the first time to the international medical world at Therapiewoche Congress in Karlsruhe and European Congress of Gerontology at Basel. Further, Georovital was <u>patented</u> and appreciated till our days (2017). Currently the institute is dedicated to <u>Geriatrics, Research and Social Gerontology</u>. <u>Under the National Plan for R&D&I under the coordination of the Academy of Medical Sciences</u>, the Institute carries out fundamental and applied research in the field of pathology. Its <u>Research Collective for Social Gerontology</u> performs research under areas: Analyzing the medical-social problems of the elderly population in order to develop appropriate assistance programs; Studying the interrelation between bio-psycho-social conditions and active aging; Study of sensory impairments and overall functionality of the elderly affected; Ways of their medical-psycho-social support: Knowing the degree to which sensory impairment can change the overall functionality of the elderly; Knowledge of intervention, medical and social, curative and prophylactic needs (targeted, in particular, secondary and tertiary prophylaxis). Assessing the health, nutritional status and food preferences of the elderly; Study of lifestyle related to behavioral profile and socio-economic status in cardiovascular diseases in the elderly; Evaluating mobility issues related to chronic pathology; Raising awareness of the risks associated with mobility deficiencies and affecting the independence of elderly people; Studying the health and functionality of unofficial careers who have older people in surveillance.</p>
<p>National Institute for Scientific Research on Labor and Social Protection (Institutul Național de Cercetare Științifică în domeniul Muncii și Protecției Sociale) http://www.incsmps.ro/index.php?option=com_frontpage&Itemid=1</p>	<p>Performs research and studies on Social policies and social phenomena and offer support to legislative authorities for improving the social and medical framework of health services users.</p>
<p>National Institute for Studies and Research for Communications (INSCC) Institutul Național de Studii și Cercetări pentru Comunicații INSCC http://www.inscc.ro/</p>	<p>An exclusive Romanian national R&D Institute in the field of communications. Its mission is to support and promote technologies, systems and services in the field of communications - support for the development of the Information Society in Romania. It is involved in the field of tele-services to improve the quality of life of people, developed in digital environment through specific structures and information society services.</p>

<p> National Institute for Research and Development in Informatics ICI Bucuresti Institutul National de Cercetare Dezvoltare in Informatica ICI Bucuresti www.ici.ro </p>	<p> The most important Institute for R&D&I in Information Technology and Communications in Romania. Assuming the scientific and technological priorities in this area, its mission is to consolidate its position and to develop scientific and technological support in the field of Information Technology & Communications, support needed for creating structures and services required by the knowledge-based information society. Its main activities: <ul style="list-style-type: none"> • research – development – innovation within the frames of national and international programmes; • technological transfer and capitalization of research achievements in the field of Information and Communication Technology; • elaborating products and information systems for vary fields of activity; • collaboration with academies and specialized institutes internationally; • development, implementation and supply of information services, including in the field of computer networks; • elaborating diagnosis and prognosis studies regarding the development in the field of Information and Communication Technology; • coordinating complex projects and implementing hardware and software solutions and components; • editing and printing publications in the field of Information and Communication Technology. </p>
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4. Public institutions / government helix

Main public actors (policy decision makers including Managing Authority of OP, health insurance companies, health and social care regulators) in Home Care R&I	
Name + website	Description of activities relevant for Home Care R&I
<p> Managing Authorities (MA) for COP - Ministry of Regional Development, Public Administration and European Funds (MA-MRDPAEF) (Autoritatea de management pentru POC Ministerul dezvoltarii regionale, administratiei publice si fondurilor europene AM-MDRAPFE) http://www.fonduri-ue.ro/poc-2014 </p>	<p>Responsible with the management and coordination of the Competitiveness Operational Programme 2014-2020 for both priority axes under which R&I for HC projects are included.</p>
<p> Intermediate Body for Research within the Ministry for Research and Innovation (MRI) for Priority 1 (Organismul intermediar pentru cercetare – Ministerul cercetarii si inovarii) http://newpoc.research.ro/ </p>	<p>Responsible with implementation of COP Priority Axis 1 Research, technological development and innovation sustaining the economic competitiveness and business development projects under which the health care and HC are eligible topics of the projects for almost all sections, A-G.</p>
<p> Intermediate Body for Information Society Promotion - Ministry for Communication and Information Society </p>	<p> Responsible with implementation of COP Priority Axis 2 Information Technology and Communication (ITC) for a competitive digital economy for action dedicated for improving digital content and systemic ICT infrastructure in e-education, e-inclusion, <u>e-health</u> and e-culture. The section e-health has a separate call and the topic HC is included. </p>

<p>(Organismul Intermediar pentru societatea informatională - Ministerul Comunicatiilor și Societății Informaționale) http://fonduri.mcsi.ro/?q=node</p>	
<p>Ministry of Health (Ministerul sanatații) http://www.ms.ro/</p>	<p>Responsible with the Governmental Programme for health has carried out and funded national programs with a major impact on public health. Its Implementation and Coordination Unit is a specialized structure with the main responsibilities in the preparation, coordination and implementation of programs and projects with non-reimbursable external financing under the programs financed by: European Structural Funds (European Regional Development Fund, European Social Fund and Cohesion Fund, Solidarity Fund of the European Union, etc.); European grants (the Third Public Health Action Program 2014-2020, etc); bilateral agreements (Swiss-Romanian Cooperation Program, Norwegian Grants, Grants for the European Economic Area 2014-2021, etc.).</p>
<p>Ministry of Labor and social justice (Ministerul Muncii și justiției sociale) http://www.mmuncii.ro/j33/index.php/ro/2014-domenii/familie/politici-familiale-incluziune-si-asistenta-sociala/3995</p>	<p>Produces, follows the Strategic Action Plan for Implementing the National Strategy to Promote Active Aging and Protection of the Elderly 2015-2020 (Planul strategic de acțiuni pentru implementarea Strategiei naționale pentru promovarea îmbătrânirii active și protecția persoanelor vârstnice 2015-2020)</p>
<p>The National Health Insurance House (CNAS) with 41 County Health Insurance Houses each with several public and private providers of health care and HC services (Casa națională de asigurări de sănătate) http://www.cnas.ro/page/prezentare-general.html#</p>	<p>Public institution, autonomous, of national interest, with legal personality, whose main object of activity is to ensure the unitary and coordinated functioning of the social health insurance system in Romania. Its mission is to achieve a modern and efficient social health insurance system, permanently in the service of the public interest and the insured people, which has the role of improving the health of the population. Operates on the basis of its own Statute and has the following obligations:</p> <ul style="list-style-type: none"> • to ensure the logistics of the unitary and coordinated functioning of the health insurance system; • to pursue the collection and efficient use of the fund; • to cover the needs of people's health services, within the limits of available funds • to use appropriate media to represent, inform and support the interests of the policyholders they represent. <p>Provides funds for ensured old people to cover the health care and homecare services provided by the homecare and health care providers. The services are free for insured people and are obtained according the limited budget and the degree of emergency of the old person case. The home care service is allotted free of charge for max 90 days in a year.</p>
<p>House of Health Insurance of Bucharest with 71 companies specialized in health care and homecare for people in needs (Casa de Asigurari de Sanatate a Municipiului Bucuresti) https://www.casmb.ro/furnizori_ingrijiri_la_domicili</p>	<p>Provides funds for ensured old people to cover the health care and homecare services provided by the homecare and health care providers. The services are free for insured people and are obtained according the limited budget and the degree of emergency of the old person case. The home care service is allotted free of charge for max 90 days in a year per person. In other cases all services are paid.</p>

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Most significant research projects / research cooperation initiatives in Home Care R&I

Significant R&I projects / research cooperation initiatives in Home Care realized 2007-2016		
Project name + description	Participating members / organizations	Results of the activities
Project "Increasing the quality of the medical act in rural areas by implementing a telemedicine IT system". Sectoral Operational Program Increase of Economic Competitiveness, POSCCE 49472	Project implemented by the Ministry of Health Counties: Tulcea, Galati, Braila, Constanta	Family doctors in isolated regions can manage chronic illnesses of patients with the help of specialists through the telemedicine system, including tele-medical imaging. Specialized medical assistance for isolated patients due to geographic conditions (eg the Danube Delta), age or disability, and the increase in the share of home care.
Project "Complex System on NGN Support for Home Tele-assistance of the Aging Persons", TELEASIS http://www.cnscc.ro/en/index.php Http://www.inscc.ro/proiecte/teleasis/index.php?page=obiective	Ministry of the Education and Research, National Institute for Research and studies for Communications, "Politehnica" University of Timișoara , University of Pitești, "Gheorghe Asachi" Technical University of Iași, University of București, QuickWeb Info, București – QWI, Flamed Info Arges, Pitești - FLMD	Achievement of a system allows the tele-assistance at home of the aging people, both from a medical and social point of view.
Project "Integrated multidisciplinary diagnostic service using telemedicine platforms", MultiMED ID 1714 SMIS-CSNR 47522, Sectoral Operational Program "Increasing Economic Competitiveness" co-financed by the European Regional Development Fund priority axis 2, Competitiveness through CDI Operation 2.3.4: Promoting innovation in enterprises (http://www.multi-med.ro/)	SC GNOSIS EVOMED SRL	Implementation at the medical clinic level by a team of reputed medical doctors and IT specialist engineers. An integrated multidisciplinary diagnostic and treatment service using telemedicine platforms that allows the realization and interpretation of medical analyzes and investigations at the <u>patient's home</u> , by a multidisciplinary team of specialist physicians who are remotely and who use a specialized application running on any mobile device to view, interpret and discuss the results of the investigations and of the medical analyzes to establish a proper diagnosis and treatment in consensus MultiMED telemedicine system consists of: 8 mobile intervention teams, 1 call center that schedules and organizes the medical act and one panel of specialist physicians who interact in real-time; An approved multidisciplinary medical

		<p>protocol that provides a rapid and complete diagnosis to a patient using a multidisciplinary team of physicians working simultaneously from distance in real-time on the case.</p> <p>A certified, authorized, reliable and modern telemedicine system on the market from the implementation of the protocol.</p> <p>A service considered a humanitarian application for countries where medical infrastructure is lacking, where there is no funds to build hospitals and doctors are very few.</p>
<p>Project CASA - Regions for Smart Living. The European Interreg IVC (CASA: Consortium for Assistive Solutions Adoption) is about the development of regional policy and exchange of knowledge around the up-scaling of innovative ICT and services for independent living.</p> <p>https://timpolis.ro/telemedicina-si-asistenta-pentru-autonomie-la-domiciliu-proiectul-casa-la-final/</p>	<p>The Timiș County Council participated, together with another 13 partner regional public authorities from 9 different countries.</p>	<p>Regional development of initiatives and facilitating the exchange of good practices with the purpose of implementation at large scale of the innovative solutions and services using ICT to provide conditions for extending the period of healthy and active life of elderly people and the premises of an independent life at home.</p> <p>Opportunities for innovative companies to develop new tools and services. CASA is part of the Community of Regions for Assisted Living (CORAL) in which a few dozen European regional governments collaborate. With the CORAL network they build a sustainable connection between their innovation clusters in the field of Ambient Assisted Living and Active & Healthy Ageing.</p> <p>Good practice models have been identified such as: integrating health services and social assistance into a unique system, implementing a common IT system, with shared databases and electronic patient files and, in particular, developing and using at large-scale of a telemedicine applications and assistive technologies (tele-consultations, tele-rehabilitation and tele-monitoring for care or self-care at home).</p> <p>Methods by which the best practice models were transferred in a local context.</p>
<p>Project "Home Assistance for Elderly", funded by public donations proposed and coordinated by the Romanian Red Cross Society</p> <p>https://www.crucearosie.ro/news/271/34/Crucea-Rosie-Romana-a-lansat-programul-Asistenta-la-domiciliu-pentru-varstnici.html</p>	<p>Red Cross Romania and its territorial branches</p>	<p>HC for aged persons using new telemedicine-specific technologies. Addressed people - with cardiac affections, offering the ability to control blood pressure and heart functions in real time by linking to a command center where a physician centralizes and interprets medical data.</p> <p>Extension of remote assistance services for all categories of elderly</p>

		people who live alone and do not benefit from the support of their family.
<p>Project "Together for Health", funded and technically supported by an economic entity in collaboration with the Profilaxis Medical Help Foundation, proposed a hybrid approach such as a medical visit to the beneficiary's home - telemedicine, to ensure the provision of medical services in any area, including in isolated or hardly accessible localities.</p> <p>http://fundatiaprofilaxis.ro/proiecte/imprenuna-pentru-sanatate/</p>	<p>Profilaxis Medical Help Foundation Fundatia Vodafone Romania through Mobile for Good \programme.</p>	<p>A doctor moves to the patient's home with portable investigational medical equipment, which includes: laptop, portable ecograph (ultrasound) with 3 tests (for cardiological, endocrinological and internal diseases investigations), stethoscope, EKG, combo station for ophthalmology, dermatology, ortorinolaryngology, spirometer and audiometer.</p> <p>The physician performs the investigations and distributes in real time the data collected to a specialist physician who consults the patient live, interprets the data, establishes the diagnosis and treatment So, the patient benefits from specialized consultations he/she would not normally have access to.</p>
<p>Project "HealthOptimum" (Health care delivery OPTIMisation throUgh teleMedicine) e-health and interoperability project, eTen European Program.</p> <p>http://www.hotnews.ro/stiri-arhiva-1026114-primul-proiect-european-telemedicina-care-participa-romania.htm</p>	<p>Region Veneto (Italia), region Syddanmark (Danemarca), Aragon – Spania, Uppsala – Suedia și Tesan S.p.A (Italia). Emergency hospital Timisoara, Info World, Alcatel-Lucent,</p>	<p>Provision of health services in virtual specialized medical assistance conditions for a wide range of medical specialties: hematology, cardiology, radiology, endocrinology, dialysis, plastic and repair surgery, neurosurgery, psychiatry, etc. and monitoring aged persons at home. Provides rapid healthcare services in conditions of high professionalism, interoperability at European level and facilitating the exchange of information between participating regions.</p>
<p>Project "The Red Button - Integrated socio-medical home care services supervised by the tele-assistance system", co-financed by the Romanian-Swiss Cooperation Program Http://www.butonulrosu.ro/#</p>	<p>Foundation Cross white-yellow Romania, Buzau Branch, Constanta Branch, Association 4change</p>	<p>Implementation of a unique innovative system of tele-assistance for the aging persons and its testing at regional level.</p> <p>Provides integrated socio-medical home care services monitored through a tele-assistance system called the Red Button System complementary to the emergency system specially designed for elderly people suffering from various health problems (anxiety, panic attack, cardiac and respiratory disturbances, strokes.</p> <p>Already the project has wide support from various public authorities and it is considering purchasing the solution.</p>
<p>Project "Home care for the elderly", financed by the SEE grants 2009 - 2014, within the NGO Fund in Romania as well as through donations public. http://www.ingrijirevarstnici.ro/</p>	<p>Religious organization, St. Damian Association and volunteer in Iasi city</p>	<p>Provide socio-medical services at home to aged persons with predilection to those in rural areas.</p> <p>Provided services: -medical services - consultations, electrocardiograms, medical treatments, bedsores prevention and</p>

		treatment, injectable and infusible treatments, free medical insurance, medical recovery by ultrasound physiotherapy and electrotherapy, psychological assistance; -social services - the provision of personal care objects, housekeeping and household care.
<p>Innovative transnational governance for regional coordination of key innovation factors in the field of smart environmental technologies needed for independent elderly living (SEE_INNOVA)</p> <p>Guvernanță transnațională inovativă pentru coordonarea regională a factorilor-cheie în inovare din domeniul tehnologiilor ambientale inteligente necesare traiului independent al vârstnicilor. https://www.seeinnova.eu</p>	<p>Marche,IT A.D.B.I.,RO,Sofia BG Sterea Elada, Create-net, IT Clusterland Upper Austria,At, Innoskart Hu, U.E.F., ROU</p>	<p>The use of QuH model and Good practices regarding:</p> <ul style="list-style-type: none"> -Setting up the group in various areas related to Home Assistance for the elderly (building, energy saving, mobility, active aging, innovation, ICT, SMEs, etc.) with a focus on collaboration between different stakeholders and influence on factors local decisions; -Establishment of national associations to promote needs, trends and innovations in the field of Domestic Autonomy Assistance and the collaboration of different stakeholders; -European, national and regional collaboration projects in various areas related to Assistance for Home Self-care for the elderly (ICT training of caregivers, development of innovative technologies, practices and products for home automation, healthcare, indoor and outdoor localization, sensors, etc.); -setting up public and / or private companies to provide innovative services for the elderly (Telecare network, care services, etc.); - Innovative funding, compensation and planning programs promoted by regional governments to support innovative collaborative projects and solutions in various areas related to Assistance for Home Self-Assistance for the Elderly.
<p>Project "The elderly home is at home", http://www.ingrijirevarstnici.ro/</p>	<p>Public authority of Iasi Municipality ,religious organization St. Damian Association</p>	<p>Socio-medical home care through social assistance services, health care services and personal care services</p>
<p>Project "ICT in Health - Comparative Analysis of eHealth Solutions in Member States and Internationally Successful Models" (2015-2017) funded through the Sectoral Development Research Program, the "National Agenda for Romania" Program - 2015- 2017 of the Ministry of Communications and Information Society. http://193.230.11.128/</p>	<p>National Institute for Research and Development in Informatics – ICI Bucuresti, S.C. Adnet Market Media S.R.L</p>	<p>The project contributes to supporting R&D&I in e-Health in Romania by correlating the provisions of the National Strategy on Digital Agenda for Romania with the most significant approaches of successful e-Health solutions in Europe and other countries.</p> <p>Main results: -a comparative study of e-Health</p>

		<p>solutions initiatives in Romania and abroad</p> <ul style="list-style-type: none"> -indicators and instruments for measuring the adoption, usability and efficiency of e-Health solutions. - best practices to guide the implementation and adoption of e-Health solutions. - recommendations, guidelines and rules to establish the criteria for evaluating the performance of e-Health solutions. -a road map with critical information on the development and implementation of good practices on e-Health
<p>Project Active Life prolongation for Proactive Ageing (PN-II-PT-PCCA-2013-4-1686) within the Partnership Program of the Research and Development and Innovation Plan, PN II, Subprogram Cooperative Projects for Applied Research (2014-2016), Domain 9 Socio-Economic and Humanistic Research, Research Topic 9.4 Human, Cultural and Social Capital, with Research</p> <p>Theme 9.4.3. Creating and distributing educational, occupational and mobility opportunities in the social space.</p> <p>https://proactiveageing-prezentare.ici.ro/index.html</p>	<p>Clinical Hospital for Infectious and Tropical Diseases "Prof. dr. Victor Babes" (DSVB) ; University of Medicine and Pharmacy "Carol Davila" (UMFCD); Ana Aslan National Institute of Gerontology and Geriatrics (INGG); National Institute for Research and Development in Informatics (ICI); Siveco Romania SA</p>	<p>The ProActive Ageing project aims to contribute to better social inclusion of the aging people by providing services based on modern IT technologies that facilitate and promote the access of these vulnerable groups to education and the labor market.</p> <p>In addition, it will provide practical, motivating, trustworthy and friendly IT tools for aging people, anti-aging professionals and elderly caregivers.</p> <p>Main results:</p> <ul style="list-style-type: none"> -Centre for Active Ageing module -Comprehensive training materials for specialists taking care of ageing people -A Toolkit to Support Medical Research Addressed to Healthy and Active Ageing research
<p>The project Dispatching and Management Project Center for Optimizing the Home Care Integrated Services</p> <p>Centru de dispecerizare și management pentru optimizarea serviciilor integrate de îngrijiri la domiciliu – CDMS</p> <p>Project 40-251, POC Axis 1 Section G http://www.inscc.ro/index.php?option=com_content&view=article&id=213&Itemid=597&lang=ro</p>	<p>National Institute for Research and Studies for Communications (INSCC)</p>	<p>Creates multiple partnerships for knowledge transfer in order to develop the ICT support for the implementation of multiple Dispatching and Management Centers for optimizing home care integrated services - as a support for offering medical and social services at home.</p> <p>Offers medical and social care services at home by the means of an integrated home care system aimed towards people with a high dependency degree or with low mobility for maintaining their autonomy and increasing their quality of life in their own homes.</p> <p>Solves the technical and organizational matters in the development and implementation by improvements in the management of technical, human and economical resources of HC services providers.</p>
<p>- Projects Contest at the initiative of the Ministry of European Funds,</p>	<p>Ministry of European Funds, "Community</p>	<p>The projects related to this funding line target the aged persons in situations of</p>

<p>"Community Grandparents - Social and Socio-Medical Services for the Elderly", ongoing competitive appeal funded by the Human Capital Operational Program (HCOP). http://www.fonduri-structurale.ro/stiri/17850/pocu-mfe-a-lansat-in-consultare-publica-ghidul-solicitantului-bunicii-comunitatii</p>	<p>Grandparents - Social and Socio-Medical Services for the Elderly" (initiator)</p>	<p>dependence and/or social exclusion risk. The projects will promote active aging and will strengthen the national network of proximity social services for elderly people in need, including home care services, using innovation for greater flexibility.</p>
<p>- Projects competition organized by the Ministry of Labor and Social Justice, within the program of national interest "Development of home care services for dependent aged persons" with a grant from the state budget. http://www.mmuncii.ro/pub/img/site/files/63fa9b5f9dd4224e9887ef57c1504793.pdf</p>	<p>Ministry of Labor and Social Justice (initiator)</p>	<p>The purpose and objectives of the competition are:</p> <ul style="list-style-type: none"> a) to maintain autonomy for as long as possible and to prevent the aggravation of dependency situation of the elderly; b) reducing the cost of long-term residential care; c) increasing the responsibility of local authorities towards elderly people who require care and support to continue their lives in the middle of their own family and dwelling and to strengthen their capacity to respond to this objective; d) improving the quality of care provided; e) support for the family who cares the dependent elderly people, in order to ensure the continuity of services over long periods of time; f) increasing the quality of life of dependent elderly people, respecting the dignity and freedom to choose of this category of population in need; g) prevention of repeated hospitalizations and institutionalization of elderly people suffering from addictive chronic conditions; h) staff training for the provision of care at the home of assisted elderly people; i) hiring qualified personnel by local authorities or by non-governmental organizations to ensure the necessary services.

5. Regional strategies / analyses / studies carried out in or relevant for Home Care

This section provides references to strategies, analyses and studies carried out by third parties that are relevant to Home Care segment.

Market analysis name	Short description of the aim of the	Website link for more
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	analysis	information / download
National Strategy to Promote Active Aging and Protection of the Elderly for the Period 2015-2020 Fundamental Note of the Government Decision approving the National Strategy for Promotion of Active Aging and Protection of the Elderly for the Period 2015-2020 and the Strategic Action Plan for the period 2015-2020 and the Strategic Action Plan for the period 2015-2020	A set of official reasons for adopting the national strategy for promoting the active aging	http://www.mmuncii.ro/j33/index.php/ro/2014-domenii/familie/politici-familiale-incluziune-si-asistenta-sociala/399
Government Decision approving the National Strategy for Promotion of Active Aging and Protection of the Elderly for the Period 2015-2020 and the Strategic Action Plan for the period 2015-2020 Appendix no. 1- The National Strategy for Promoting Active Aging and Protection of the Elderly 2015-2020 Appendix no. 2 - Strategic Action Plan for the Implementation of the National Strategy for Promotion of Active Aging and Protection of the Elderly 2015-2020	Documents containing the detailed national strategy for elderly and the strategic action plan based on the general framework regarding the Population aging: implications for society and the economy, Healthier life in an aging society, Work in old age, Social participation and old age, Increased independence in long-term care. The strategic plan objectives: -Training and improving the quality of life of older people -Promoting active and dignified social participation of the elderly -Better independence and greater safety for people with long-term care needs -Transverse goals for a longer life in good health The operational programmes	http://www.mmuncii.ro/j33/index.php/ro/2014-domenii/familie/politici-familiale-incluziune-si-asistenta-sociala/3995
Living Long, Staying Active and Strong: Promotion of Active Aging in Romania	A Country report on elderly problems with the current situation analysis and presentation of recommendations and good practices from other European countries	http://www.mmuncii.ro/j33/index.php/ro/2014-domenii/familie/politici-familiale-incluziune-si-asistenta-sociala/3995
The state of implementation of quality standards for elderly care and the measures of the National Strategy on Social Assistance of the Elderly	An accurate and detailed study on the implementation of the national strategy for elderly in Romania	http://www.cnpv.ro/pdf/analize2007_2009/studiu_standard.pdf
Governance Program 2017-2020	Among the governance objectives there is a presentation of the objectives for solving the elderly needs	http://gov.ro/ro/obiective/programul-de-guvernare-2017-2020#null
National Strategy for Research, Development and Innovation 2014-2020	The objectives of R&D&I to be put into practice	http://www.research.gov.ro/ro/articol/3978/politica-cdi-strategia-nationala-de-cercetare-dezvoltare-si-inovare-2014-2020

6. Quadruple-helix cooperation in R&I

The “quadruple-helix cooperation in R&I” section should provide a more detailed review of existing quadruple-helix model research projects / cooperation initiatives in general health care (with a potential to transfer to a Home Care segment) as well as Home Care segments including the list and description of the most significant ones. As this QH model has not been used in R&I for health care the list will be later completed as soon as this model will be considered in the applicant guide. The last part of this section reveals attitudes of the main actors in R&I from all 4 helixes (formal and informal health care providers, business & business supporting actors, research and public institutions) towards using quadruple-helix model based cooperation in R&I in Romania.

Attitude of main R&I actors from all 4 helixes towards using quadruple-helix model based R&I cooperation

<p>Attitude of actors from the citizens / users helix (formal + informal health care providers, elderly care recipients) towards using quadruple-helix R&I cooperation</p>	<p>There is interest in QH model as so it is the only way to bring to the attention to the actors of the others helixes the needs of elderly, patients, families, other care recipients, and formal care and medical. A legal framework is needed to established the partnership based on QH.</p>
<p>Attitude of actors from the business helix (businesses + business supporting actors) towards using quadruple-helix R&I cooperation</p>	<p>Business helix is theoretically interested in QH model as so it is easier to have a verified solution into practice that further will bring profit.</p>
<p>Attitude of actors from the research helix towards using quadruple-helix R&I cooperation</p>	<p>The Research helix is interested in using QH due to the opportunity to decrease the risks of the research results. Actors from Research Helix are more motivated considering that all QH actors’ are aware of their work usefulness and the interaction could shorten the product realization.</p>
<p>Attitude of actors from the public institutions helix (excluding SF owner) – health insurance companies, health care and social care regulator, etc.) towards using quadruple-helix R&I cooperation</p>	<p>Public organizations would join QH if a legal framework is offered.</p>
<p>Attitude of the Operational Programme owner towards using quadruple-helix R&I cooperation</p>	<p>Quadruple-helix (QH) solutions are rare in R&I cooperation given the restrictive rules in settling the partnerships or consortium of the R&I project for a specific call. The four key actors - business, research, government, and citizens, collectively, the “quadruple helix” could be considered partial functional and used at the phase - public consultation of the Guide of the call for projects, when all key actors are independently active.</p>

7. Potential improvements of the Operational Programme and other possible improvements in regional innovation ecosystem

The “Potential improvements of the Operational Programme and other possible improvements in regional innovation ecosystem” section provides suggestions on possible improvements for support of R&I in Home Care via quadruple-helix cooperation at 2 levels: via the Operational Programme (management, strategic focus and operations), and via any other possible improvements in the regional Innovation ecosystem.

<p>List of possible improvements in the Operational Programme regarding its support for quadruple-helix based R&I in Home Care</p>	<ol style="list-style-type: none"> 1. Specific new call/calls on clearly indicated HC topic and/or tele-health and/or quadruple helix focus 2. The Guide of applicants to indicate clearly the Quadruple helix model components when an eligible partnership is established. 3. To modify the guide of applicants at the chapter evaluation and simplify the criterions and their weights 4. The operational programmes to make available to the future applicants under POC the data bases structured on results and their applicability. 5. The Monitoring Committee to consider the all elements of the QH when proposing or adjusting the COP. 6. The simplification of documentations and the use of local evaluators for COP.
<p>Other ideas + possible improvements in the regional innovation ecosystem regarding support for quadruple-helix based R&I in Home Care</p>	<p>The entire R&I ecosystem to be based on Quadruple helix when decision is made in the field of HC and to be created a platform with needs in HC covered and uncovered by existing projects under the existing programmes supporting Health and HC.</p>

8. Other information

In this section, any other relevant information for future regional analysis might be added.

<p>Any other relevant information for regional analysis</p>	<p>The list of laws and rules under which the R&I ecosystem is functional. (see the website of MRI http://www.research.gov.ro)</p>
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9. Information gathered by ...

The information within this template has been gathered for the purpose of regional analysis within the HoCare project (Interreg Europe Programme) by the following organization

<p>Region</p>	<p>Romania</p>
<p>Organization name(s) in local language</p>	<p>Institutul National de Cercetare Dezvoltare in Informatica (ICI)</p>
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