

OVERALL REGIONAL SITUATION IN MADEIRA (PORTUGAL) IN HOME CARE RESEARCH & INNOVATION AND QUADRUPLE-HELIX COOPERATION IN R&I

REGIONAL STUDY OF THE HOCARE PROJECT IN MADEIRA (PORTUGAL)







ABSTRATO (PT)

A situação regional global em R & I relacionados com cuidados domiciliários de modelo de cooperação quádrupla hélix foi compilada com informações sobre a situação atual da RAM - Região Autónoma da Madeira Portugal para actividades do projecto **HoCare** (Interreg Europe, PGI01388. de as http://www.interregeurope.eu/hocare/) pelo parceiro do projecto IDERAM Instituto de Desenvolvimento Empresarial da Região Autónoma da Madeira responsável pela execução do Programa Operacional Madeira14-20. Entre as partes interessadas regionais do projeto o IDERAM faz uso do conhecimento da Autoridade de Gestão IDR - Instituto de Desenvolvimento Regional da Região Autónoma da Madeira, responsável máximo pelos fundos estruturais Madeira14-20, bem como outros atores do ecossistema de inovação de cuidados domiciliários. A informação contida neste relatório foi recolhida através de uma pesquisa documental, através de entrevistas e discussões com os grupos-alvo para os quais a situação também é produzida e publicada.

O objetivo do projeto HoCare é impulsionar a prestação de soluções inovadoras de serviços domiciliares em cadeias regionais de inovação, através do fortalecimento da cooperação de atores no sistema de inovação regional utilizando a abordagem Quádruplo hélice. Este modelo de cooperação em inovação, pretende que os utilizadores, empresas, atores de investigação e autoridades públicas cooperem para produzir inovações de forma conjunta. O projeto HoCare pretende (1) melhorar o OP Madeira14-20 a nível estratégico (por melhorias de gestão ou de focalização estratégica do PO Madeira14-20), bem como (2) melhorar o seu nível prático (através do apoio à apresentação de projetos de maior qualidade e alta qualidade ao PO Madeira14-20 para o financiamento da inovação por parte dos atores da inovação).

Na RAM, o PO Madeira14-20 é suportado pela estratégia RIS3, que define claramente o apoio à saúde e envelhecimento activo.

Na RAM, existem atualmente vários instrumentos de política com sistemas de incentivo que poderiam ser explorados para financiar o desenvolvimento de inovação em cuidados domiciliares, a saber:

- Sistema de incentivo de Valorização e Qualificação Empresarial da Madeira Valorizar 2020 Relevante para R&I de Cuidados Domiciliares
- Sistema de incentivo à produção e tecnologia do conhecimento científico da Região Autónoma da Madeira PROCiencia 2020 Relevante tanto para a R&I de Cuidados Domiciliários como para cooperação quadruple hélice
- Sistema de incentivo ao Empreendedorismo Relevante para R&I de Cuidados Domiciliares
- Sistema de incentivo à Inovação da Madeira Inovar 2020 Relevante para R&I de Cuidados Domiciliares

Na RAM, entre outras redes, existe o Plano Regional de Envelhecimento Ativo (PREA2016-2019), que se apresenta como uma importante rede de apoio social que pode servir de incubadora de ideias e futuros projetos inovadores de assistência domiciliar. Na RAM existem práticas e projetos desenvolvidos em todas as hélices (do sistema quadruple), por ex. projetos de assistência, telemedicina e software clínico - iMED (para informação detalhada convidamo-lo a ler todo o documento).





ABSTRACT (EN)

This Overall regional situation in Home Care R&I and quadruple-helix cooperation in R&I was compiled with information on the RAM – Autonomous region of Madeira situation from Portugal for the activities of the project HoCare (Interreg Europe, PGI01388, http://www.interregeurope.eu/hocare/) by the project partner IDERAM Business Development Institute of the Autonomous Region of Madeira responsible for the Operational Program implementation Madeira14-20. Among the regional stakeholders of the project IDERAM makes uses of Managing authority knowledge IDR – Regional Development Institute of the Autonomous Region of Madeira, responsible for the financial and policital coverage of the structural funds Madeira14-20 as well as other actors of home care innovation ecosystem from all helixes of quadruple-helix model (as potential applicants and participants of new innovative projects submitted to be financed within OP Madeira14-20). The information within this report has been gathered through desk research of the author, and through interviews and discussions with both target groups for whom the situation is also produced and published.

Objective of HoCare project is to boost delivery of home care innovative solutions in regional innovation chains by strengthening of cooperation of actors in regional innovation system using Quadruple-helix approach. Quadruple-helix is an innovation cooperation model or innovation environment in which users, businesses, research actors and public authorities cooperate in order to produce innovations. HoCare aims to (1) improve OP Madeira14-20 at strategical level (by management or strategic focus improvements of OP Madeira14-20) as well as to (2) improve its practical level (by support of submitting more and high quality projects to OP Madeira14-20 for innovation financing from innovation actors).

RAM OP Madeira14-20 is supported by RIS3 strategy as well as defined clearly in RIS3 the health and ageing support.

In RAM, there are currently available several policy instruments with incentive schemes that could be exploited to finance home care innovations, namely:

- Incentive Scheme for Business Valuation and Qualification of Madeira Valorizar 2020 Relevant to Home Care R&I
- Incentive for Scientific Knowledge Production and Technology of the Autonomous Region of Madeira PROCiência 2020 Relevant both to Home Care R&I + quadruple-helix cooperation in R&I
- Incentive for Entrepreneurship of Madeira Relevant to Home Care R&I
- Incentive for Innovation of Madeira Inovar 2020 Relevant to Home Care R&I

In RAM region, among other networks, there is the Regional plan for active aging (PREA2016-2019), important network for social support that can serve as incubator for ideas and future home care innovative projects. RAM experienced projects in all of the quadruple helixes e.g. assisted living facility, telemedicine, iMED clinical software (for detailed information we invite you to read the full document).





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1. Structural funds programme

The "Structural funds programme" section provides an overview of the Structural funds' Operational Programme in your region and its priorities supporting R&I. It lists objectives, available support programmes / intervention areas relevant for Home Care R&I and/or quadruple-helix cooperation in R&I, and currently used evaluation process of applications. In addition, it collects information on the governance of the Operational Programme.

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

Name of the Structural funds' - Operational Programme (OP) - supporting Research & Innovation in your region (+ in local language in brackets)	Madeira's Regional Operational Programme 2014-2020 (Madeira 14-20)
Geographical coverage of this OP (whole country, specific counties, international, etc.)	Autonomous Region of Madeira
Managing Authority (Responsible body) for this OP	IDERAM Business Development Institute
Intermediate body(ies) for this OP	IDERAM Business Development Institute of the Autonomous Region of Madeira IDR – Regional Development Institute of the Autonomous Region of Madeira
General objectives of the OP	Insert RAM ("Região Autonoma da Madeira" - Autonomous Region of Madeira) into European and global R&D networks through incentives to target researchers and companies that generate innovation for competitiveness and employment. Promote the use of renewable energies and energy efficiency. Extend the regional economic base with new export activities of goods and services with high added value. Promote the integration of higher R&D levels in the Tourism and leisure cluster, increasing its link with the region's economy (traditional sectors, culture and natural heritage)
Name of the relevant thematic priority axis supporting R&I activities (+ in local language in brackets)	Priority axis 8 - Promoting social inclusion and combating poverty with the priority investment 9.b.iv for Positive family interaction, Proximity Network and Individualized Integrated Care Plan. (Eixo prioritário 8 – Promoção da inclusão social e combate à pobreza com a prioridade de investimento 9.b.iv para Interação familiar positive, Rede de Proximidade e Plano Individualizado de Cuidados Integrados. Priority Axis 1 - Strengthening Research, Technological Development and





Innovation. Investment Priority 1.b: Promoting business investment in innovation and research, developing links and synergies between companies, R & D centres and the higher education sector, in particular promoting product and service development, technology transfer, social innovation, and co-innovation and Applications in the public interest, in the stimulation of demand, in networks, clusters and open innovation through intelligent specialization, support to applied technological research, pilot lines, early product validation actions, advanced production capacities and first production, especially in Technologies and the diffusion of technologies of general interest.

(Eixo Prioritário 1 - Reforçar a Investigação, o Desenvolvimento Tecnológico e a Inovação. Prioridade de Investimento 1.b: Promoção do investimento das empresas em inovação e investigação, o desenvolvimento de ligações e sinergias entre empresas, centros de I&D e o setor do ensino superior, em especial a promoção do desenvolvimento de produtos e serviços, transferência de tecnologia, inovação social, e co inovação e aplicações de interesse público, no estímulo da procura, em redes, clusters e inovação aberta através da especialização inteligente, apoio à investigação tecnológica aplicada, linhas piloto, ações de validação precoce de produtos, capacidades avançadas de produção e primeira produção, em especial no que toca às tecnologias facilitadoras essenciais e à difusão de tecnologias de interesse geral.)

Priority Axis 3 - Enhancing Business Competitiveness.

Investment Priority 3.a: Promoting entrepreneurship by facilitating, in particular, support for the economic exploitation of new ideas and by encouraging the creation of new enterprises, in particular through incubators.

Investment Priority 3.b: Development and application of new business models for SMEs, especially with regard to internationalization

Investment Priority 3.c: Support the creation and extension of advanced product and service development capabilities.

(Eixo Prioritário 3 - Reforçar a Competitividade das Empresas.

Prioridade de Investimento 3.a: Promoção do espírito empresarial facilitando nomeadamente o apoio à exploração económica de novas ideias e incentivando a criação de novas empresas, designadamente através de viveiros de empresas. Prioridade de Investimento 3.b: Desenvolvimento e aplicação de novos modelos empresariais para as PME, especialmente no que respeita à internacionalização. Prioridade de Investimento 3.c: Apoio à criação e alargamento de capacidades avançadas de desenvolvimento de produtos e serviços.)

Specific objectives of the given priority axis described above

According to priority axis before identified

Objectives of the strategic investment priorities in health services and also SMEs development:

- create the right conditions for the provision of health care to users and for their professionals;
- Strengthen health promotion through a policy of proximity to users' health facilities;
- Re-qualify existing social facilities by diversifying the service offerings and adapting them to new needs;
 - primary health care and care (With special emphasis on hospital





care), renovation and expansion of facilities as well as renewal and installation of new equipment

- delivery of innovative Home Care solutions by regional companies (in field of health and social care)
 - Strengthening the capacity assistance;
 - Health care delivery to users;
- disease prevention and health promotion through structured investments at the level of primary and hospital health care and in crosscutting areas of support
 - new entrepreneurial initiatives
 - entrepreneurship on RIS3 thematic

Available support programmes / intervention areas in 2014-2020 relevant to Home Care R&I and quadruple-helix cooperation in R&I

Which **relevant support programmes / intervention areas** in the priority axis described above are **available in OP 2014-2020** (amount of funds, objectives of support programme / intervention areas, eligible recipients, time plans for calls). Please provide information for each relevant support programme / intervention area.

SUPPORT PROGRAMME / INTERVENTION AREA 1

SUPPORT PROGRAMME /	SUPPORT PROGRAMME / INTERVENTION AREA 1	
Name of the support programme / intervention area 1 (+ in local language in brackets)	Incentive Scheme for Business Valuation and Qualification of Madeira Valorizar 2020	
Relevancy of this support programme / intervention area	Relevant to Home Care R&I	
Describe reasons of its relevance for Home Care R&I (if relevant)	This program can support different investments requested from some individuals/companies players in Home care products and services for SMEs.	
Describe reasons of its relevance for quadruple-helix cooperation in R&I	"Valorizar 2020" allows candidates to submit investment proposals to provide new skills and materials involving academics, government and user/community	
Amount of funds in this support programme / intervention area in EUR	The total amount of Valorizar 2020 is € 24.3 million, secured by the Managing Authority for the ERDF component in the proportion of 85% and 15% by RAM budget for regional component.	
Objective of the support programme / intervention area	The purpose of the programme "VALORIZAR 2020" is to support projects that contribute to increasing competitiveness, flexibility and responsiveness to the global market of companies through investments in "Entrepreneurial Innovation",	





	"Qualification of Business Strategies" mainly in his Priority 3 -" Reinforcing the Competitiveness of Enterprises ", included in Investment Priority 3 .c -" Support for the creation and extension of advanced product development capabilities And services "and that contribute to the Specific 3.c.1 - Develop actions aimed at improving the competitive capacity of regional companies with the objective of consolidating economic growth and adding value to processes and goods and services".
Eligible support programme / intervention area recipients	Recipients within areas of social support (CAE REV3 87 e 88). Production of new goods and services; Adoption of new or significantly improved processes or manufacturing methods; Adoption of new, or significantly improved, organizational; digital economy; Branding and design; Development and engineering of products, services and processes; Industrial property; utility models and designs; Quality; Knowledge transfer; Distribution and logistics; Ecoinnovation.
Time plan for calls in this support programme / intervention area (i.e. are the calls regular in specified times, irregular, when the next calls are planned, etc.)	Priority investment 3.c Support for the creation and extension of advanced product and services .Opened call from 26th October 2016 (18 hours) until 11th November 2016. After the analysis of this first call received proposals IDERAM will decide new opening call dates.
SUPPPORT PROGRAMME	/ INTERVENTION AREA 2
Name of the support programme / intervention area 2 (+ in local language in brackets)	Incentive for Scientific Knowledge Production and Technology of the Autonomous Region of Madeira - PROCiência 2020
Relevancy of this support programme / intervention area	Relevant both to Home Care R&I + quadruple-helix cooperation in R&I
Describe reasons of its relevance for Home Care R&I (if relevant)	Allows the development of R & D & I initiatives in business environment by strengthening the link between businesses and the authorities of the Regional System for the Development of Research, Technology and Innovation (SRDITI network) and higher education institutions through: • I & D Projects promoted by companies, including industrial research activities and experimental development, leading to the creation of new products, processes or systems, or the introduction of significant improvements in products, processes or existing systems - may be supported proof of concept projects; • Project advanced technology demonstrators and pilot lines, which, starting from R & D activities successfully completed, aim to show, before a specialized audience and in a real situation, the economic and technical advantages of new technological solutions are not sufficiently validated technological point of view to





	commercial use.	
Describe reasons of its relevance for quadruple-helix cooperation in R&I (if relevant)	This program allows investments by different organizations namely: - Individual project - presented by a company - Co-promotional project - led by companies, Involving effective collaboration between agents of SRDITI network in the development of R & D, including collaboration between companies and non-corporate entities of the SRDITI; Therefore it privileges the promotion of projects in strategic areas of Research, Development and Innovation (R & D & I) in companies, between companies and entities that make up the Regional System for the Development of Research, Technology and Innovation (SRDITI) and institutions of higher education, fully aligned with the objectives and priorities defined in the framework of regional RIS3.	
Amount of funds in this support programme / intervention area in EUR	The budget for this incentive system, subject to change, in particular arising from financial reprogramming of "Operational Programme Madeira 14-20", is € 16.47 million, secured by the Managing Authority for the ERDF component in the proportion of 85% and 15% by RAM budget for regional component.	
Objective of the support programme / intervention area	The "PROCiência 2020" aims at strengthening the competitiveness of the regional economy through the promotion of projects in strategic areas of Research, Development and Innovation (R & D & I) in companies, between companies and entities that comprise the regional System for the Development of Research, Technology and Innovation (SRDITI) and institutions of higher education, fully aligned with the objectives and priorities defined in the framework of regional RIS3, to ensure a threshold of technological skills that allow transforming the knowledge generated into new products and services.	
Eligible support programme / intervention area recipients	Beneficiaries are considered companies of any kind and in any legal form. For projects in co-branding, beneficiaries are still non-business entities of the Regional System for the Development of Research, Technology and Innovation (SRDITI).	
Time plan for calls in this support programme / intervention area (i.e. are the calls regular in specified times, irregular, when the next calls are planned, etc.)	It is a continuous system that does not work for calls being therefore open until the program closes in 2020 (Madeira14-20) or if all money is spent in the program.	
SUPPORT PROGRAMME /	JPPORT PROGRAMME / INTERVENTION AREA 3	
Name of the support programme / intervention area 3 (+ in local language in brackets)	Incentive for Entrepreneurship of Madeira - Empreender 2020	





Relevancy of this support programme / intervention area	Relevant to Home Care R&I
Describe reasons of its relevance for Home Care R&I (if relevant)	Support the promotion of private investment and job creation materialized in innovation-product designs. • Projects in the area of qualified and creative entrepreneurship can foster home care innovations with dynamic strong growth, including the built-in creative and cultural industries, Web entrepreneurship and digital, and/or sectors with higher intensity of technology and knowledge or that value application of R & D results in the production of new goods and services, enhancing coordination with the entrepreneurship ecosystem.
Describe reasons of its relevance for quadruple-helix cooperation in R&I (if relevant)	Entrepreneurial initiatives, preferably aligned with the Smart Specialisation Strategy (RIS3 Regional), able to provide creative and innovative business focused on renewed supply of tradable goods and services with high added value and to enable the boost of job creation and mobilizing skills specialized technicians. Support high value-added activities, inducing effects on the business profile and the diversification of the regional production base, including through the establishment of enterprises with qualified human resources and project implementation, preferably in regional development strategic areas identified by the Strategy Smart specialization (RIS3 Regional).
Amount of funds in this support programme / intervention area in EUR	The budget for this incentive system, subject to change, in particular arising from financial reprogramming of "Madeira 14-20", is € 11.42 million, secured by the Managing Authority for the ERDF component in the proportion of 85% and 15% by RAM budget for regional component.
Objective of the support programme / intervention area	Empreender 2020 is part of the Priority 3 - "Strengthening the Competitiveness of Enterprises" as part of the Investment Priority 3 - "Promoting entrepreneurship, facilitating support for the economic exploitation of new ideas and fostering the creation of new firms, including through business incubators "of the Operational Programme of the Autonomous Region of Madeira 2014-2020. This incentive system is directly targeting SMEs and the objective of supporting the promotion of private investment and job creation materialized in innovation-product designs. It is intended to renew the regional economic base by encouraging innovation and entrepreneurial initiatives, preferably aligned with the Smart Specialisation Strategy (RIS3 Regional. Individual projects submitted by companies will be supported (individual projects) and projects subject to a simplified scheme for small business initiatives of SMEs aimed at the acquisition of consultancy services in the area of entrepreneurship.
Eligible support programme / intervention area recipients	Recipients are SMEs and the support is under a refundable incentive, with a limit of € 500,000 with a base rate of 45% and can increase.
Time plan for calls in this support programme /	It is a continuous system that does not work for calls being therefore opened until 2020 or until the money is spent.





SUPPORT PROGRAMME /	SUPPORT PROGRAMME / INTERVENTION AREA 4	
Name of the support programme / intervention area 3 (+ in local language in brackets)	Incentive for Innovation of Madeira – Inovar 2020	
Relevancy of this support programme / intervention area	Relevant to Home Care R&I	
Describe reasons of its relevance for Home Care R&I (if relevant)	It allows for the promotion of business investment in innovation and research, development of links and synergies between companies, R & D centres and the higher education sector, in particular promotion of product and service development, technology transfer, innovation Social, and co-innovation and applications of public interest, in stimulating demand, in networks, clusters and open innovation through intelligent specialization, support to applied technological research, pilot lines, early product validation actions, advanced production capabilities and first production, In particular as regards key enabling technologies and the dissemination of technologies of general interest and mainly in what it concerns HOCARE in the Home care R&I.	
Describe reasons of its relevance for quadruple-helix cooperation in R&I (if relevant)	NA	
Amount of funds in this support programme / intervention area in EUR	The budget for this incentive system, subject to change, in particular arising from financial reprogramming of "Madeira 14-20", is € 4.6 million, secured by the Managing Authority for the ERDF component in the proportion of 85% and 15% by RAM budget for regional component.	
Objective of the support programme / intervention area	The Innovation 2020 is part of the priority 1 - "Strengthening Research, Technological Development and Innovation" and is part of the Investment Priority 1.b - "Promotion of business investment in innovation and research, development of links and synergies between companies, R & D centers and the higher education sector, in particular promotion of product and service development, technology transfer, innovation Social, and co-innovation and applications of public interest, in stimulating demand, in networks, clusters and open innovation through intelligent specialization, support to applied technological research, pilot	





	lines, early product validation actions, advanced production capabilities and first production , In particular as regards key enabling technologies and the dissemination of technologies of general interest. This incentive system is directly targeting SMEs and the objective of promoting productive innovation projects, national or international, aiming at the introduction of new activities, products or services or the significant improvement of technological processes through the transfer and application of knowledge, contributing to the modernization and innovation of the business fabric and reinforcing The productive base tradable of the RAM, thus allowing an improvement of the position of Madeira in international value chains. Inovar 2020 OP fits in a set of actions aligned with the objectives and the priorities defined in the Regional Strategy of Intelligent Specialization (RIS 3) and oriented to the reinforcement of innovative investments.
Eligible support programme / intervention area recipients	Recipients are SMEs and the support to be granted, up to a limit of € 500,000, takes the mixed form, where 70% corresponds to a reimbursable incentive and 30% corresponds to a non-refundable incentive. The incentive to be granted shall be calculated by applying to the eligible expenditure a base rate of 35%, which may be increased by the following increases: "Type of company" increase: 10% for projects presented by micro, small and medium enterprises; Increase in "Cooperation with non-corporate entities of SRDITI": 10% to be allocated to projects that present a cooperation action plan with SRDITI non-corporate entities. The incentive granted per project may not exceed the maximum intensity rates expressed in gross grant equivalent (GGE), according to the regional aid map 2014-2020 approved by the European Commission.
Time plan for calls in this support programme / intervention area (i.e. are the calls regular in specified times, irregular, when the next calls are planned, etc.)	It is a continuous system that does not work for calls being therefore opened until 2020 or until the money is spent.

Evaluation of applications

Is the evaluation process for applications set up the same way for all given relevant support programmes / intervention areas + calls? (procedures of the evaluation set up and

Yes. The programs Empreender, Valorizar, Inovar and PROciencia are evaluated by IDERAM (priority axes 1 and 3). Some OP with specific calls may differ one from another in:

- Opening frame of the call
- Rate of co-financing of the call
- Areas of investment





specific criterias selection)	
If the same, who evaluates all applications?	IDERAM support staff and IDE support staff.
Where are the evaluators from?	From the partner country
If the same, which evaluation criteria are used with what weight?	Inovar 2020 For Non SME, the project merit (MP) is calculated by MP = 0.40A + 0.25B + 0.30C + 0.05D, For SME, MP = 0.35A + 0.20B + 0.30C + 0.15D in which A = 0,40A1 + 0,60A2 A1 - Evaluation - Coherence and relevance of the project A2 - level of innovation B = 0,60B1 + 0,40B2 B1 - Value chain positioning B2 - focus on international markets C = 0,25C1 + 0,40C2 + 0,35C3 C1 - crosseffect to other economic value in the region C2 - Potential of changing the regional productive profile (RIS3) and interaction with non-entrepreneurial entities of SRDITI C3 - Contribution of the project to the creation of a more favorable socioeconomic environment in the Region D = 0,25IR + 0,30IS + 0,45FP (The indicators profitability ratio of sales (IR), solvency ratio (IS) and project financing (FP)) PROciencia 2020 MP = 0,40A + 0,35B + 0,25C A - Quality of the project in the SME competitiveness C - Impact of the project in the regional competitiveness C - Impact of the project in the SME competitiveness C - Impact of the project in the regional competitiveness Valorizar 2020 MP = 0,35A + 0,20B + 0,25C + 0,20D A - Quality of the project B - Impact of the project in the SME competitiveness C - Impact of the project in the SME competitiveness C - Impact of the project in the SME competitiveness C - Impact of the project in the SME competitiveness C - Impact of the project in the SME competitiveness C - Impact of the project in the regional competitiveness C - Impact of the project in the regional competitiveness D - Project financial sustainability





If different, who evaluates applications of each of the support programme / intervention area call? Please specify for each different relevant support programme / intervention area described above.	NA
If different, which evaluation criteria are used with what weight in each of the support programme / intervention area call? Please specify for each different relevant support programme described above.	NA

Governance of the relevant thematic priority axis of the Operational Programme

Main management bodies that influence the OP including logic of constitutions, process of forming and list of members

IDERAM Business Development Institute of the Autonomous Region of Madeira IDR – Regional Development Institute of the Autonomous Region of Madeira IDERAM actively collaborate in the study and definition of sector policy measures; Carrying out initiatives and policies to stimulate business competitiveness, particularly micro, small and medium-sized enterprises (SMEs) throughout their life cycle, functioning as a privileged interlocutor in their relationship with the State; Participate in defining, monitoring and promoting the implementation of policy measures falling within its remit, including those in the nature of incentive systems, with a view to their harmonization and consistency; Collaborate with the services, agencies and other competent entities of the Public Administration in the preparation of legislation on the regulation and regulation of business activity, in particular that which has an impact on SMEs; Issue its opinion and monitor the various public initiatives and policies in order to strengthen the competitiveness of enterprises, in particular SMEs, by ensuring the uniformity of their criteria; Ensure the management and articulation of all the instruments of support to the investment, financing and operation to the companies of the Region; Promote the dissemination to the business community of all instruments supporting the secondary and tertiary sectors:

others please check http://www.ideram.pt/Content/PaginasPublicas/Sobre-IDE





Are there any possibilities for non-members of commitees to influence the OP (consultations, feedback, events, etc.)?	Yes
If yes, please provide more details on how	Assuming itself as coordinating body of all the support to the secondary and tertiary sectors of our economy, the Institute of Business Development of the Autonomous Region of Madeira resorts to other organizations for the purpose of specialized consultation (smes, public companies, public organizations, associations and others)

2. SMART specialization strategy – RIS3

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

Is SMART specialization strategy defined in your region on the same level as above described Structural Fund? (e.g. national-national, regional-regional)	Yes
If not, specify level of RIS3 defined in your region	NA
Which RIS3 R&I specialization segments contribute to Home Care R&I support?	Madeira 2020 - Regional Smart Specialisation Strategy (RIS3) of the Autonomous Region of Madeira (RAM) is the evolution of the Action Plan for Research, Technological Development and Innovation (RAM PIDTI) which laid the foundations for the creation of a culture of research and technological development in RAM to be able to generate employment and economic growth over time, by creating value through innovation. An RTD + I culture (Research, Technological Development and Innovation) means recognizing the value of knowledge, ideas and the benefits they provide to society, and above all, rewarding those who create knowledge and put at the service of development social and economic. The thematic area of health and well-being is the main focus on RIS3 in RAM according to Hocare. This strategic area of Health and Welfare has as large sectoral objectives as follows: • Sector for Innovation and improvement of health indicators in RAM; • Strengthening the capacity of research, development and innovation in health and pre and post-graduate medical education in RAM; • Optimization of cooperation between SESARAM, research units in health CQM-Center of Chemistry of Madeira, LGH-Laboratory of Human Genetics, FCV-Faculty of Life Sciences) and the enterprises (SMEs);





- Promoting the establishment of international thematic networks (as well as strengthening of existing) in the areas defined as strategic, in order to increase the attractiveness of human and financial resources to RAM;
- Contribution to the creation and establishment of companies in the region, in collaboration with local institutions, to take advantage of the knowledge and infrastructure installed/install and encourage the development of differentiating projects that contribute to the highly skilled job creation and products/ igh value-added services:
- Contribution to install the 3rd year of medical school in the RAM in order to confer the degree in Medical Foundation Studies, as well as the creation of a hospital structure with academic profile;
- Establishment of synergies with other policy areas, particularly with tourism, resources and marine technologies, quality agrifood and information and communication technologies in order to enhance the investment and existing knowledge;
- International RAM Promotion regarding the quality of health care and research in strategic areas, by conducting conferences, workshops and promotional campaigns in connection with the strategic domain of Tourism;
- Promote the sharing of projects in the field of population health within the Macaronesia.

The main areas of activity considered as priorities in the strategic field of health and well-being in a smart specialization perspective are as follows:

- Diseases related to the problem of population aging (eg. cardiovascular, oncological, neurodegenerative, osteo-articular and endocrinological);
- genetic and metabolic diseases;
- Infectious Diseases and (re) emerging (eg VHI-AIDS, Malaria, Dengue Fever, Tuberculosis, Hepatitis viral);
- Imaging technologies (eg. electron microscopy, medical imaging) and analytical for the early detection of diseases;
- Identification of biomarkers with clinical impact.(Biomarkers, Tailoring Medicine);
- Development of new sensors and nanodevices materials for applications in nanomedicine, whether the diagnostic point of view of both the therapeutic;
- Study of mechanisms of gene regulation and its use as a potential target for new therapeutic strategies;
- Analysis of mixed models with the therapeutic development order a personalized medicine perspective;
- Advanced technologies applied to health (eg. telemedicine, monitoring chronically ill, applications on smartphones, long-term care);
- Translational Research, that is, from laboratory to clinic. This translational research is complemented by epidemiological studies in the areas of intervention.

Priority activities

- Empowering RTD institutions + I sites of technical and human resources needed to develop the action areas defined as strategic in the field of Health and Welfare;
- To promote advanced training through the award of scholarships for master's





doctoral and post-doctoral;

- Develop activities that promote increased quality of health in the region;
- Supporting businesses and SESARAM in the introduction of advanced technologies and innovative products in the health sector to improve the quality of life of patients and the efficiency and effectiveness of diagnosis and therapy;
- Create RTD networks + I International in strategic areas;
- Promoting the establishment of companies in the region, in cooperation with RTD institutions + I sites, encourage the development of differentiating projects and contribute to the highly skilled job creation and product/ high value-added services;
- Foster the growth of RTD indicators + I, and in particular registration as patents, prototypes, software and brands in the field of health and welfare, and the publication of results in international newspapers with high impact factor;
- Based on the quality of health care and research RAM, internationally promote the Madeira Islands, in the Health Tourism segment and wellness, Senior Tourism and active aging and through the organization / participation in conferences and workshops;
- Implement education activities for health and to reduce risk factors.
- Promote the active participation of local actors (municipalities) in the design and construction of health management tools (creation of SMEs) with a view to improving the health of populations;
- Promote the construction of econometric models in health as an essential and cross tool for sustainable development of the population in RAM.

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

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

Other policy instruments relevant for Home Care R&I support in your country?

Priority axis 8 – Promotion of social inclusion and fighting poverty with priority investment 9.b.iv - Improving quality and diversifying the range of services and social responses directed to the autonomy of the elderly and / or dependents, as well as to the prevention and rehabilitation of children and / or young people with higher exposure to psychosocial problems and their families.

OTHER POLICY INSTRUMENT 1

If yes, what is the name of the other policy instrument 1 (+ in local language in brackets) Priority axis 8 – Promotion of social inclusion and fighting poverty with priority investment 9.b.iv - Improving quality and diversifying the range of services and social responses directed to the autonomy of the elderly and / or dependents, as well as to the prevention and rehabilitation of children and / or young people with higher exposure to psychosocial problems and their families.





	(EP 8 - Promover a Inclusão Social e Combater a Pobreza, 9.b.iv.1 - Melhorar a qualidade e diversificar a oferta de serviços e de respostas sociais dirigidas autonomia de pessoas idosas e ou em situação de dependência, bem como à prevenção e reabilitação de crianças e/ou jovens com maior exposição a problemas psicossociais e suas famílias.		
If yes, what is the geographical coverage of the policy instrument?	RAM – Autonomous region of Madeira		
If yes, who is the Managing Authority (Responsible body) of the Policy instrument?	IDR – Regional Development Institute of the Autonomous Region of Madeira		
If yes, who is the Intermediate body of the Policy instrument?	IDR – Regional Development Institute of the Autonomous Region of Madeira		
If yes, what are the general objectives of the policy instrument	General objetives for the investment priorities in health services are: • To create the right conditions for the provision of health care to users and for their professionals; • Strengthen health promotion through a policy of proximity to users' health facilities; • Re-qualify existing social facilities by diversifying the service offerings and adapting them to new needs.		
If yes, what are the names of priority axes supporting Home Care R&I – if relevant (+ in local language in brackets)	Priority axis 8 Promoting Inclusion and Combating Poverty (eixo prioritário 8 - Promover a Inclusão Social e Combater a Pobreza)		
If yes, what are the specific objectives of the given priority axis described above	The specific objectives are: Increase in the quality of life of the population of the Region; Increased social responses (equipment and skills) that facilitate access, reduce inequalities and Promote social inclusion; Mitigation of regional needs at the level of development and social cohesion; Adequacy of the health equipment network in the face of social and demographic trends and technological development; Improvement of health equipment that contributes to regional and local development.		
Support programmes / intervention areas relevant for Home Care	Priority axis 8 Promoting Inclusion and Combating Poverty (Eixo prioritário 8 - Promover a Inclusão Social e Combater a Pobreza) The budget for this incentive system, subject to change, in particular arising from		





R&I in the priority axis(es) described above are available in this policy instrument? For each one, please state: relevancy, amount of funds, objectives of support programme / intervention area, eligible recipients, time plans for calls).

financial reprogramming of "Madeira 14-20", is € 3.02 million.

4. Regional innovation ecosystem in Home Care R&I

The "regional innovation ecosystem in Home Care R&I" section provides more detailed 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, businesses, research and public institutions – who might work together to drive new 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 in your region including the most significant main actors, infrastructure, resources, available public / private supporting services, networks, platforms and events)

Regional ecosystem main actors in home care R&I are mainly addressed by governmental institutions in RAM and some other private providers. In the quadruple helix one can find cooperation for the development of home care in several other stakeholders namely universities and other home care providers such as IPSS and privately owned SMEs.

Regional ecosystem infrastructures are: hospitals, nurseries, elderly homes and other physical infrastructures to support when households are not at home. Vehicles are also part of this to support the mobility and needed treatments and to bring companion to disabled and needed persons that cannot move from their one houses. Regional ecosystem public and private supporting services

- Financial by Madeira14-20
- Hospitals and public health network in RAM
- Privately owned businesses to support in home care
- Others





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

Names and description of all existing platforms / networks supporting Home Care R&I in your region	In RAM we have had recently approved the Regional plan for active aging (PREA2016-2019) so we can define as an important network the one that made the plan namely the actors and partners related with the government of Madeira with the Social security institute of Madeira among others.
Name and description of all existing regular events (both formal and informal) supporting Home Care R&I in your region	PREA shareholders usually reunite and discuss this theme.

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

1. Citizens / users helix

Who are the main formal + informal providers of healthcare, elderly care recipients / associations in Home Care R&I? Please list and describe at least 6.		
Name (+ in local language in brackets) + website	Description of activities focused on in that field	
General secretary of health of Madeira (Secretaria Regional da Saúde)	It holds 3 different organizations: -the Institute of Administration of Health and Social Affairs, IP-RAM that has the mission of supporting the definition of policies, priorities and objectives for the health and consumer sector, seeking health gains and a high level of protection of the rights and consumer interests, ensuring the best link between the various services and bodies; - The Health Service of RAM, E.P.E., has as its mission: A) Provide health care, continued care and treatment, palliative care to the population, namely the beneficiaries of the Regional Health Service and the beneficiaries of the health subsystems, or external entities that contract such care and all citizens in general, In an integrated way, through a network of easily accessible services, with a high level of technical and social efficiency that allows the achievement of health gains; B) To develop research and training activities, both in its services and in specific units; C) Ensure technical and logistical support for the development of regional health programs, promoted by the Institute of Health Administration and Social Affairs, IPAM, in terms to be signed by protocol Hospitals and health centres:	





Hospital Dr. Nélio Mendonça Hospital dos Marmeleiros Centro de Saúde do Bom Jesus Centro de Saúde da Calheta Centro de Saúde de Câmara de Lobos Centro de Saúde do Porto Santo Centro de Saúde Dr. Rui Adriano de Freitas Centro de Saúde de Machico Centro de Saúde do Monte Centro de Saúde da Ponta do Sol Centro de Saúde do Porto Moniz Centro de Saúde da Ribeira Brava Centro de Saúde de Santa Cruz Centro de Saúde de Santana Centro de Saúde de Santo António Centro de Saúde de São Roque Centro de Saúde de São Vicente Centro Dr. Agostinho Cardoso Rede Regional de Cuidados Continuados Integrados (RRCCI) ECL - OESTE - Equipa de Coordenação Local da Zona Oeste ECL - FUNCHAL - Equipa de Coordenação Local da Zona Funchal

2. Business helix

Who are the main businesses and business supporting actors in Home Care R&I			
Name (+ in local language in brackets) + website	Business or business supporting actor	Description of highly innovative solutions provided in that field	
Dilectus Madeira – residência Assistida	Business Dilectus is the only Assisted Living Facility and Respite care in Funchal.		
ACIF – Câmara de Comércio e Industria da Madeira	Business supporting actor	Applied quadruple helix models to develop the cluster of the sea	
Clinica Talassoterapia - Vila Baleira	Business	Marine aerosols with beneficial effects for colds, asthma, sinusitis, respiratory and anti-tobacco problems. A body wrap with Gel Plasmalg, rich in algae activating the sweating and stimulants of circulation, hydromassage with small marine crystals, a recreation in bathtub of the natural marine environment	
ACIN	Business	The iMED is clinical management software, which	





		assists in the electronic prescription of medicines and in all the tasks that make up the professional medical activity. This integrated solution has all the tools and modules essential for the management of spaces in the health area, necessary for a faster and more efficient service.
Montepio Geral	Business supporting actor	It is banking institution it supports financing to leverage businesses.
MadeBiotech - C R & D, S.A	Business	Investment made in Education and the existence of highly qualified human resources in this field; - Existence of 3 R&D institutions (2 nursing schools and one IT faculty with the corresponding R&D centre) that conduct research in this field locally and that have gained international reputation; - Multicultural and multi-ethnic people needing home care which can be a very representative test group for the development of new technologies and/or procedures; - R&D subsidies that can boost the local investment and attract companies from abroad.
Wowsystem, Lda	Business	GRACE proposes a new web, mobile and real-time analytics platform that connects to our own wearable – which has a form of jewel for emotional appeal – or other pre-existing wearables available in the market, in order to improve families and elderly people's health and mental well-being, as well as reducing health services efficiency response and health costs. This unique platform for health data analysis and data clustering, promotes the discovery of patterns in daily behavior and health of users. It generates personalized insight that can be easily visualized to better understand the daily health of senior users by doctors, care staff and families through mobile apps or web.

3. Research helix

Who are the main research actors in Home Care R&I? Please list and describe at least 6.			
Name (+ in local language in brackets) + website			
M-ITI HCI Research Institute in	Studying the long-term acceptance of personal health informatics tools		





Madeira	Funded by FCT (Portuguese Foundation for Science and Technology) under the Carnegie Mellon Portugal Early Bird 2013 program (CMU Pt EPB), this project seeks to understand and design for prolonged engagement with wearable activity trackers. Triggered by recent advances in sensor technology and ultra low power microcontrollers, the market of wearable activity trackers, such as Fitbit, Jawbone up, andNike+ Fuelband, has grossed over \$230M in 2013 and is expected to continue its growth. With chronic diseases such as diabetes, cardiovascular and respiratory diseases accounting for nearly 40% of mortality cases and 75% of health care costs, and obesity alone accounting for an estimated 12 percent of the health spending growth in the U.S., wearable activity trackers promise a new health care model that stresses patient-driven prevention. AHA – Augmented Human Assistance (CMUP-ERI/HCI/0046/2013) The "AHA: Augmented Human Assistance" project is a novel, integrative and cross-disciplinar approach of 4 portuguese universities, CMU and 2 portuguese industry partners that combines innovation and fundamental research in the areas of human computer interaction, robotics, serious games and physiological computing. AHA's goal is to develop a new generation of ICT based solutions that have the potential to transform healthcare by optimizing resource allocation, reducing costs, improving diagnoses and enabling novel therapies, thus increasing quality of life. The AHA project will develop a novel and modular set of ICT based solutions that in isolation or integrated as a Robotic Assistance Platform will address: 1. Physical (re)training: Building on the existing expertise on Augmented Reality (AR) and serious games 2. Increasing self-awareness: Monitoring of user state by means of biosensors, computer vision systems and exercise performance data. 3. Augmented assistance: The above systems will be integrated on a mobile robotic platform with indoor navigation capabilities (in environments such as	
Universidade da Madeira	Service of Surgery of the Hospital Dr. Nélio Mendonça, Funchal, Autonomous Region of Madeira Case studies of treatment of benign mammary phatology with peloideterapeutic mixture of sandstone (with high levels of I, Ca, Mg, Sr) of the island of Porto Santo.	
ARDITI - Agência Regional para o Desenvolvimento da Investigação, Tecnologia e Inovação	ARDITI manages 1/3 of the budget of axis 1 in which IDERAM manages 2/3 therefore is a key partner on supporting investment to Home Care solutions and besides.	
Madeira Rochas –	Geomedicine projects development with sand from Porto Santo.	





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4. Public institutions / government helix

Who are the main public actors (policy decision makers including Managing Authority of OP, health insurance companies, health and social care regulators) in Home Care R&I? Please list and describe at least 6.		
Name (+ in local language in brackets) + website	Description of activities relevant for Home Care R&I	
IA Saúde - Inst. De Administ. da Saúde e Assuntos Sociais IP-RAM	Is the support body for the Regional Secretariat for Planning and Finance whose mission is to coordinate the planning and monitoring activities of the regional development model as well as the coordination and management of the intervention of the community funds in the RAM	
Secretaria Regional da Inclusão e Assuntos Sociais	Reinforcement of funds for home support for the elderly and caregivers. The Regional Government honored the commitment made to the elderly population and their families, dignifying and protecting our fellow citizens in aging. Of the 58 of 64 measures underway, under the I Regional Plan for the Active Aging 2015-2019, the minister stressed the increase of 9% in the number of home helpers, the training and qualification of the home technicians in the dementia diseases, The increase of 6% in the number of elderly people attending the Day and Social Center, the 8% increase in financial support for the purchase of medicines and technical aids, or the meeting and sharing space known as Café Memória, aimed at Citizens with memory problems or diagnoses of dementia and their relatives.	
Delegação Regional da Associação de Alzheimer	Psychological Support - Interventions aimed at people with dementia and caregivers, responding to requests from the community and Alzheimer's team Portugal Social support - Information and guidance, including on the social responses available to the Association and the community. Home Services - The Delegation of Madeira of Alzheimer Portugal provides Cognitive Stimulation service to the House Direct Action Aids Scholarship - Direct Action Aids Scholarship, made up of private individuals, who are not employees of the Association, but who have expressed interest in working as caregivers of people with Dementia Music Therapy - The Madeira delegation started music therapy sessions for people with Alzheimer's disease.	
União das IPSS da Madeira	Network support for IPSS in the RAM region – social organizations that act as local support organizations to the health care.	





Instituto de Segurança Social da Madeira – IP	The home support service (SAD) should: Provide care and services every day of the week guaranteeing, whenever necessary, support on Saturdays, Sundays and holidays Provide at least four of the following care and services: Hygiene and personal comfort care Hygienic housing, strictly necessary to the nature of care provided Provision and support in meals, respecting the diets with medical prescription Treatment of wearer's personal wear Activities of animation and socialization, namely animation, leisure, culture, acquisition of goods and foodstuffs, payment of services, travel to community entities Teleassistance service. The SAD can also ensure: Training and awareness of family members and informal caregivers to provide care to the users Psychosocial support Home food confectionery Transport Image Care Making minor modifications or repairs at home Carrying out occupational activitie	
IDE, IP RAM	Assuming itself as coordinating body of all the support to the secondary and tertiary sectors of our economy, the Institute of Business Development of the Autonomous Region of Madeira resorts to other organizations for the purpose of specialized consultation. Foster the creation of innovative home-based care solutions in regional innovation chains by strengthening the cooperation of public and private actors in the regional health system using the quadruple-helix approach, where the objective is to improve the application of the Structural Funds thanks to Implementation of international policies	
SESARAM Madeira – EPE	Assistance to the family and support networks with social support needs identified in the context of the 15:15 treatment and rehabilitation process, in order to mitigate the social problems associated with the disease and to support the reintegration process in the community.F15 - Social Diagnosis, through the identification of social support needs, aiming at the elaboration of an individual plan of support and definition of intervention priorities with a view to social treatment Monitoring and psychosocial support of patients and their families, enabling them to participate actively in solving their problems, through the use of informal support networks (family, friends, neighbors,) or through referral to formal support networks (Individual, family, relational, employment, financial, housing,). In order to adapt to changes in the situation of illness, in different spheres of human life.	



AHA's goal is to develop a



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

Which significant R&I projects / research cooperation initiatives in Home Care were realized in your region during 2007-2016? Please list at least 3. Participating members / Website link for more Project name + description Results of the activities organizations information Studying the long-term acceptance of personal health informatics tools Triggered by recent advances in sensor technology and ultra low power microcontrollers, the market of wearable activity as Fitbit. trackers. such Jawbone up, and Nike+ Fuelband, has grossed over \$230M in 2013 and is expected to continue M-iti Madeira growth. With chronic diseases Interactive Technologies diabetes, Institute http://www.msuch as 2018 cardiovascular and respiratory CMU iti.org/node/2474 diseases accounting for nearly Folkwang University of 40% of mortality cases and 75% of health care costs, and obesity alone accounting for an estimated 12 percent of the health spending growth in the U.S.. wearable activity trackers promise a new health care model that stresses patient-driven prevention. M-iti Madeira Interactive Technologies Institute The "AHA: Augmented Human Assistance" project is a novel, M-iti Madeira Interactive Technologies integrative and crossdisciplinar approach of 4 Institute portuguese universities, CMU IST-ID http://neurorehabilitatio and 2 portuguese industry Universidade da n.m-iti.org/lab/ahapartners combines 2018 that Madeira augmented-humaninnovation and fundamental Carnegie Mellon assistance/ research in the areas of University human computer interaction, Universidade Nova de robotics, serious games and Lisboa physiological computing. PLUX

YD Robotics (YDR)





new generation of ICT based solutions that have the potential to transform healthcare by optimizing resource allocation, reducing costs, improving diagnoses and enabling novel therapies, thus increasing quality of life. The project proposes the development and deployment of a novel Robotic Assistance Platform designed to support healthy lifestyle, sustain active aging, and support those with motor deficits. The AHA project will develop a novel and modular set of ICT based solutions that in isolation or integrated as a Robotic Assistance Platform will address: 1. Physical (re)training: Building on the existing expertise on Augmented Reality (AR) and serious games, we propose to develop adaptive AR physical training tools that deliver online feedback on performance to prevent sedentarism, support active aging and provide personalized tools for function re-training in motor impaired patients. 2. Increasing self-awareness: Monitoring of user state by means of biosensors, computer vision systems and exercise performance data. User state will beassessed in a transparent manner and data will be visualized through friendly user interfaces, and shared with patients clinicians	Faculdade de Motricidade Humana, Universidade de Lisboa	
a transparent manner and data will be visualized through		





platform with indoor navigation capabilities (in environments such as senior houses and hospitals) that will interact through a virtual coach system to monitor patients, provide reminders on tasks, guide patients through exercises, and assist them in daily routines.			
SAD consists in providing care and services to families and/or persons present in your home, in case physical and/or mental dependency and which cannot ensure, temporarily or permanently, the satisfaction of their basic needs and/or performing instrumental activities of daily living, that don't have family support for that matter	Social Security Institute of Madeira, IP-RAM; Private institutions of Social solidarity; Elderly beneficiaries of the Home Help service	2017 - 2018	http://www.seg- social.pt/instituto-de- seguranca-social-da- madeira
Multisensory Gymnasium The objective of this was to create a polyvalent space that promotes the development of new dynamics of multisensory stimulation. The spaces were reorganized, adapting them to the new proposed intervention dynamics and the existing physical resources were optimized and created different workshops to stimulate the capacities of the clients in a multidimensional perspective. The target population is all EBV clients, who feel willing and able to participate in the proposed activities.	Public Entities: Instituto de Segurança Social da Madeira, IP-RAM Civil society / Citizens: Older people residing in the Bela Vista facility and attending the Bela Vista Day Center.	The activities in the new spaces began in February of this year, and the "Multisensory Gymnasium" was attended by 108 participants, distributed by the following studios: "Studio for the Brain" - 74; "Active School Studio" - 19; And "Arts&Crafts Studio" - 15. The visitors of the "Welfare Studio" are identified by their own needs. The University of Madeira proposed, as part of a partnership to be developed with EBV, the installation of a Living Laboratory, which would use an innovative technology that would allow users to "move"	http://www.seg- social.pt/instituto-de- seguranca-social-da- madeira





		virtually in scenarios and activities of daily living on the outside (Such as harvesting, taking a stroll along the seafront,) but budgetary contingencies have not allowed it to materialize.	
DILECTUS assisted living facility Create a complex offers 45 spacious and well-equipped bedrooms (single or double occupancy), prepared for wheelchair and disabled access. Accessibility includes appropriate wheelchair access within bathrooms, including shower access.	Private entity	Measured already: better life conditions; better ageing	http://dilectusmadeira. pt/pt-pt/residencia- assistida/
Bclose project. Developed and supported by OP to tackle e- health development. Develop Bhealth platform and technology app from Bclose – Making Your Life Easier	Miti; Lisbon municipality; Bclose private entity;		http://www.bclose.pt/pt /
REHABNET: NEUROSCIENCE BASED INTERACTIVE SYSTEMS FOR MOTOR REHABILITATION- Project – MITI RehabNet proposes to develop a novel rehabilitation paradigm, based on low cost technology that can deliver motor rehabilitation for ALL patients, anywhere they are.	The RehabNet project involved partners from Industry, academic institutions and the public health system of Madeira (SESARAM), through which end users and health professionals were involved.	Grants"	http://neurorehabilitation.n.m-iti.org/lab/rehabnet-2/





		benefited from this technology is approximately 80.	
Multifactorial fall prevention program for weak and pre-fragile older people living in the community	"Quadruple-helix" cooperation model, this project participants are: users (weak and prefragile elderly people over 70 years of age, living in the community); companies (who may join providing several equipments such as: monitoring, initial evaluation and monitoring of users), research actors (São José de Cluny School of Nursing and the Catholic University of Valencia) and public health authorities (RAM Health Service, SESARAM, EPE - Health Centers (Autonomous Region of Madeira, Portugal) and Health Department of La Ribera (Valencia, Spain)).	The efficacy and safety of the Probalance Program and its effect on the balance, strength and walk of 177 elderly individuals allocated randomly into 2 groups (experimental and control). The results showed a 40% decrease in the risk of falling in the experimental group and an 11.6% increase in the risk of falling in the control group, as well as significant effects on strength and walk speed, demonstrating feasibility, safety and effectiveness of the program. However, more studies are needed to prove the efficacy of strategies directed at risk factors in this age group and whose results can serve as a scientific basis for the definition of elderly fall prevention programs.	
Grace project - Guidance and Recovery Aging Care Environment New web, mobile and real-time analytics platform that connects to our own wearable – which has a form of jewel for emotional appeal – or other pre-existing wearables available in the market, in	Private business		





5. References to regional market analyses done for Home Care products and services offered

This section provides references to additional market analyses done in the region regarding Home Care products or services offered.

Market analysis name (+ in local language in brackets)	Short description of the aim of the market analysis	Website link for more information / download
PREA 2016-2019- Plano regional do envelhecimento ativo Regional plan for active aging	PREA 2016-2019 – Regional plan for active aging are mesures with 9 objectives and 3 intervention axis: -Health and active aging -Neurocognitive alterations and dementia disorders with a special incidence in Alzheimers disease - Guarantee of safeguarding The rights of the elderly and strengthening their protection.	http://www.gov- madeira.pt/joram/1serie/Ano %20de%202016/ISerie-036- 2016-02-29.pdf
PIDT&I - Plan of Action for Research, Technological Development and Innovation of RAM	Analysis and preview on RIS3 in the region applied to the R&D focus of the OPs. Political Basis, making innovation a priority for all regions, directing investment and creating synergies, improving the innovation process, improving governance and promoting greater involvement of stakeholders	http://pidti.arditi.pt/wp- content/uploads/2012/11/Estr uturaGeral-PIDTI- 20121123.pdf
Strategic Tourism Plan for RAM (2015-2020)	Defines strategic guidelines and overview on the focus for innovation driving in tourism activities in the RAM region.	http://estrategia.turismodepor tugal.pt/sites/default/files/Doc _Estrategico_Turismo_RAM _0.pdf





Plano Referencial Estratégico para a Economia da RAM (PREE-RAM), no horizonte de 2020 Dynamic characterization of the evolution of the main macroeconomic aggregates of the RA Madeira; Dynamic characterization of the evolution of the main sectors of activity that structure the Economy of RAM; Strategic assessment of the capacities and development in the RAM; Strategic capabilities assessment of the and competences of technological infrastructures existing RAM; Construction of SWOT Analyzes of the Regional Economy and Regional Business Identification of Fabric; business development opportunities for RA Madeira in the sectors in the light of the EU 2020 priorities: Identification of business development opportunities for RA Madeira in the sectors priorities in the EU 2020 Construction of Prospective Development Scenarios for the Regional Economy in the Horizon 2020; Identification of challenges and needs for intervention in the next programming period 2014-2020

http://www.ideram.pt/files/PR EE-RAM%202020%20-%20Sum%C3%A1rio%20Ex ecutivo.pdf

The "quadruple-helix cooperation in R&I" section provides 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. The projects / cooperation initiatives cited for general health sector aim to provide comparison of quadruple-helix model based research and innovations usage in general health sector compared to sector of Home Care R&I usage only. 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.

Quadruple-helix model based research projects / cooperation initiatives in general health R&I (excluding Home Care R&I but with a potential for transfer into Home Care segment, both pure regional or international with regional implementation)

Were there any quadruple-helix research projects / cooperation initiatives already carried

YES





out in your region
regarding R&I in health
sector generally
(excluding Home care but
with a potential for transfer
into Home Care segment)?

1st Strategic Plan for tourism in RAM

Given the importance and the challenges that are currently posed to the sector, ACIF felt the need to develop the present "Strategic Document for Tourism in the RAM", which defines a vision and positioning of Madeira Destination, for a time horizon of six years, With a view to strengthening competitiveness in view of the current situation and competing destinations, which will improve the performance of tourism by attracting more tourists and increasing the profitability of the players in the sector.

The Strategic Document is based on two phases: (1) Diagnosis of the current positioning of Madeira and (2) Document with the Future Strategy for Tourism in the RAM.

2nd REHABNET: NEUROSCIENCE BASED INTERACTIVE SYSTEMS FOR MOTOR REHABILITATION- Project – MITI

RehabNet proposes to develop a novel rehabilitation paradigm, based on low cost technology that can deliver motor rehabilitation for ALL patients, anywhere they are. Financed by the EC under the call FP7-PEOPLE-2011-CIG - Marie-Curie Action: "Career Integration Grants"

If yes, please name (+ in local language in brackets) and describe them, including possible website link for more information

The implementation was done at the Madeiran public health system and in a private clinic in Portugal mainland, where it was tested in several health units. It has been mostly tested with stroke survivors, both in the acute and chronic phase. The amount of users that benefited from this technology is approximately 80.

3rd Multifactorial fall prevention program for weak and pre-fragile older people living in the community

project participants are: users (weak and pre-fragile elderly people over 70 years of age, living in the community); companies (who may join providing several equipments such as: monitoring, initial evaluation and monitoring of users), research actors (São José de Cluny School of Nursing and the Catholic University of Valencia) and public health authorities (RAM Health Service, SESARAM, EPE - Health Centers (Autonomous Region of Madeira, Portugal) and Health Department of La Ribera (Valencia, Spain)).

The efficacy and safety of the Probalance Program and its effect on the balance, strength and walk of 177 elderly individuals allocated randomly into 2 groups (experimental and control). The results showed a 40% decrease in the risk of falling in the experimental group and an 11.6% increase in the risk of falling in the control group, as well as significant effects on strength and walk speed, demonstrating feasibility, safety and effectiveness of the program.

However, more studies are needed to prove the efficacy of strategies directed at risk factors in this age group and whose results can serve as a scientific basis for the definition of elderly fall prevention programs.





Quadruple-helix model based research projects / cooperation initiatives in Home Care R&I

Were there any quadruple-helix research projects / cooperation initiatives already carried out in your region regarding R&I in Home Care specifically?	YES
If yes, please name (+in local language in brackets) and describe them, including possible website link for more information	Multiple partners quadruple helix projects in partnership conducted by M-ITI - http://www.m-iti.org/ (check the website of the project) Studying the long-term acceptance of personal health informatics tools The "AHA: Augmented Human Assistance" - http://neurorehabilitation.m-iti.org/lab/aha-augmented-human-assistance/ SESARAM project of neurorehabilitation - http://neurorehabilitation.m-iti.org/lab/rehabnet-2/

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

Attitude of actors from the citizens / users helix (formal + informal health care providers, elderly care recipients) towards using quadruple-helix R&I cooperation? Please describe common and different views and experience.

The informal health care providers and elderly care recipients are fully available to cooperate in quadruple helix R&I cooperation. From the first stakeholders meeting we were able to have information that state this availability. Also it was identified all of the good things that each organization does, and there are common problems identified namely:

- lack of money to empower the services needed in the region -
- Lack of resources more funds needed
- Difficult access to homes (stated by
- The region needs home health care each time more specialized
- More need for specialized training for health providers
- Customized services are needed then standard
- Creation/recruitment of a health care providers inside each local area and not from outside
- Creation of 3rd sector network involving all 3rd sector organizations





	cooperation within quadruple helix can solve some of this problems and pipeline RAM money and other funds available (Madeira14-20, investors etc) to solve some of the challenges that arise in RAM. Also by invest in technology we can lower costs by using technology in the service or customize the service in an efficient way.
Attitude of actors from the research helix towards using quadruple-helix R&I cooperation? Please describe common and different views and experience.	Research helix is able to connect with the other helixes users more easily since it has more experience in getting external competences and resources due to the normal activities of research and general R&D. From the projects developed in RAM research institutions are the ones that cooperate more internally in the region and also externally (other countries) and usually do quadruple helix approaches when needed. On our perspective it is more common to see research organization developing innovation with citizens helix, SMEs and associations in market driven projects development then with public organizations. Usually public organizations are involved to penetrate into the regions with the pilots tests or to have political support to implement in a larger scale.
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? Please describe common and different views and experience.	Public actors are involved in projects and development usually with other public actors. There are still many barriers to overcome for a better involvement such as bureaucracy, financial rules that strangle rapidity needed for innovation to happen in a quadruple helix approach. For instance relations with SMEs are many ways as supplier and client relationships so they are transparent and according to public contracting rules from EU and Portugal which means that if we need for public actors to receive funds and to spend funds in a research project with an SME it is almost impossible to: - Have the public actors inside the proposal — only a few ones may have the political support for it - Get funds spent with privates and public actors in a rapid matter and not waiting 3, 4, 5, 6 months due to bureaucracy There should be identified a "pool" of needs for the public sector (we mean a defined region) and this way SMEs and research organizations could research with them (public actors) and solve those problems. Usually it is the private market and research organizations that empower more innovation in the new world economies. Due to bureaucracy and public contracting this is almost impossible to achieve and this is why we cannot cooperate heavily between public and all of the other helixes. Also since public organizations usually don't have project officers in project departments with decision making capabilities for innovation empowerment this means that projects don't exist in a higher scale and don't move forward as they should in a rapidly and changing world as we have. With RIS3 we have given a step forward to empower innovation that serves the needs of the regions.
What is the attitude of the Operational Programme owner towards using quadruple-helix R&I cooperation?	Operation programme Madeira 14-20 allows it and has several investment measures that address this issue. All of these were already defined previously in this document.





6. 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 in 2 levels: via the Operational Programme management, strategic focus and operations, and via any other possible improvements in the regional Innovation ecosystem.

Possible improvements in the Operational Programme regarding its support for quadruplehelix based R&I in Home Care? (e.g. awareness, structure of support programmes / intervention areas, time frame of calls, management of the OP, evaluation of applications, amount of calls, public consultations, administration, better influence and feedback options, any other)

According to the MA questionnaire:

The Madeira 14-20 MA has not identified any current weakness or gaps in the strategic focus of the OP related to the HoCare project.

We have not identified any focus of GPs needed to be improved.

No gaps or weaknesses have been identified related to the HoCare project under the OP Madeira 14-20

We haven't identified any focus needed to be improved at a management level. We haven't identified weaknesses or gaps in the current eligible actions/projects. We haven't identified actions or projects of interest to be included in the Madeira

The Madeira OP hasn't identified any extra specific call.

Other possible improvements in the regional innovation ecosystem regarding support for quadruplehelix based R&I in Home Care? (other policy instruments, networks, main actors, events, etc.)

New calls specific for the home care and health care. More investment in the sector. More openness from RAM to foreign investment funds and other agents willing to invest in the region.





7. Other information

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

Other relevant information: RAM in a perfect geo location for future investment in home care solutions namely for migrants and retired people. Due to its magnificent - nagers – get funding by EU programs
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8. 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:

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