

Experts Committee Final Report



e-RESATER Final Evaluation Report e- RESATER SOE3/P1/F682 Program INTERREG IV B SUDOE

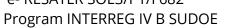


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<u>1.- Purpose of this document</u>

The major aim of this text is to summarize and to assess the activities carried out in the context of the e-RESATER project.

e-RESATER is a project belonging to the INTERREG IV B program. The project has run for 30 months (since January 2013 to June 2015).

This document has been elaborated by the Innovation Unit of the Barbastro Healthcare Area at SALUD (Servicio Aragonés de SALUD) with the inputs from the e-RESATER project partners and the contributions of the members of the e-RESATER experts committee. These contributions from the experts committee members are highlighted in blue in the document.

The e-RESATER consortium would like <u>to thank the experts committee</u> their participation in the project initiatives, their interest in the activities performed and their contribution to the good performance of the project.

2.- e-RESATER project

The main goal of e-RESATER is the development of innovation networks about e-Health and e-Inclusion. These innovation networks must be competent, sustainable and interoperable at human and technical level at the rural and isolated SUDOE areas

e-RESATER is the natural evolution of the SUDOE RESATER project (RESATER stands for Healthcare and Telemedicine Networks for Rural Areas). Between 2009 and 2012 RESATER developed local networks with healthcare actors in 6 SUDOE areas. These actors shared their experiences about e-Health within a transnational and exclusive platform. This platform included exchange tools, a health observatory in the rural area SUDOE, a methodology in order to create a project for local healthcare networks at a regional level and tools for evaluating healthcare projects.

RESATER success made legitimate the decision of working at the local areas the bottomup for innovation projects. But RESATER also demonstrated that there are still some barriers to be removed in order to grant continuity for the assistance, with the support of an open and continuous innovation system, sustainable at the isolated rural territories SUDOE. In spite of the fact that needs are widely identified: actors must work together and ICTs access must be granted in these areas, the local technological services that really meet these needs are not widely developed. For these reasons, companies at the SUDOE areas must get help in order to develop their products, to adapt these products to the needs and to make them sustainable within the context of innovative networks competent and inter-operative at a technical and at a human level. By meeting this goal, competitiveness in one of the economic areas within the SUDOE regions will be improved.





The VITLAB space is the core of the e-RESATER project. A set of new services are accessible now to the health and social care stakeholders thanks to this new platform (<u>http://vitlab.resater.eu</u>).

A set of local applications related to telemedicine and health and social care integration have been piloted at different regions of the SUDOE space. The Aragón region has piloted a service of telemonitoring of vital signs at retirement homes; the Pays Couserans region has tested two services related with telemonitoring: one at the Home Hospitalization service and another one at nursing homes. It has also worked in the definition of a shared Health and Social record. The Gers department has developed a Personal User Record combining both social and health care and the Spanish region of Asturias has developed a new functionality with allows the promotion of healthy habits through the collaboration of the healthcare and the social care sectors. The lessons learnt from these experiences have been shared among the project partners and are being published through the VITLAB.

An open innovation process was designed and carried out by Aragón and Pays Couserans within the context of the e-RESATER project. The final aim of this process would be to establish a collaboration framework that could lead to the co-development of applications and services in a multi-stakeholder environment able to narrow the gap between the supply side and the demand position.



2.1.- The e-RESATER Consortium

Picture 1. Regions involved in e-RESATER

This picture and the next table include the partners that make up the e-RESATER consortium. Besides these partners, some associated partners and many external organizations and companies have participated at the project initiatives.





Partner	Region / Country	Logo
Syndicat Mixte du Pays Couserans	Midi Pyrénées Francia	C. CULOS CARES
Federación Asturiana de Concejos	Asturias España	Conceijos
Fundación INTRAS	Castilla León España	INTRAS
Fundación para el Desarrollo Social	Aragón España	F S
ADRAVE	Val do Ave Portugal	X ADRAVE
UDCCAS Gers	Midi Pyrénées Francia	Event Destination
Servicio Aragonés de Salud	Aragón España	

Table 1. e-RESATER partners

2.2.- Work Packages and Workplan

The workpackages in which e-RESATER work has been divided are:

- WP0: Preparation. Partner meetings, preparation of the project proposal.
- **WP1: Coordination.** Consortium meetings, administrative and financial follow-up, coordination, partnership coordination
- WP2: Towards a Virtual Lab. Development of new services in the platform towards a new tool for the development of innovation processes in e-Health and e-Inclusion. The main goal of this WP has been the development and maintenance of the VITLAB (http://vitlab.resater.eu)
- WP3: Co-development of innovative services and products about e-Health and e-Inclusion in the SUDOE territory. This WP has included also the Open Innovation Process designed for the project.
- WP4. Knowledge network in e-Health and e-Inclusion in the SUDOE territory.
- **WP5. Follow-up and evaluation.** Technical monitoring, follow-up of indicators, experts committee.
- **WP6.** Advertising, information and capitalization: dissemination, transferability and sustainability in the long term.





2.3.- e-RESATER evaluation

The evaluation of the e-RESATER project is composed by three main components:

- **The general project evaluation.** This generic evaluation was included in the project proposal and includes the collective indicators: realization, result and impact of the overall project. It includes all the work packages and not only the local applications one (WP3). This evaluation has been made through the update and follow-up of a set of indicators grouped into three sections.
- The local applications assessment (the tangible experiences developed in the context of the WP3). This evaluation has been made under the GEMSA framework. GEMSA, Autonomous Multidimensional Health Evaluation Grid, (Le Goff-Pronost M; Picard, 2011)¹ (<u>https://recherche.telecom-bretagne.eu/gemsa</u>) is an evaluation methodology for telemedicine projects which was already used for RESATER.
- **The evaluation of the open innovation process in e-RESATER.** In the context of the WP3, a subset of project partners decided to initiate a process of open innovation for the development and enhancement of their local applications. This was the first experience for all the partners involved. This part of the evaluation was focused on this process.

3.- e-RESATER evaluation

3.1.- Experts Committee

The experts committee of e-RESATER is composed by professionals from different areas and countries with expertise on e-health, evaluation methodologies and innovation. The members of the committee are:

- Mrs. Myriam Le Goff-Pronost, Phd in Economics, with expertise in the telemedicine evaluation methodology GEMSA.
- **Mr. Jon Mikel Zabala,** European Phd in Engineering and Innovation Projects, expertise in Open Innovation.
- Mr. Juan Manuel Suárez Álvarez, MD, Comptroller at the City Council of Cangas de Narcea. Expertise in Public Procurement.
- Mr. Jean-Yves Bousigue, MD General and Visceral Surgery and Neuro-Surgery, expert on telemedicine.
- Mr. Pierre Rumeau, MD, PhD in modeling, Medical Advisor to GCS TéléSanté Midi Pyrénées, expert in Telemedicine projects.
- Mr. Pierre Benaim, General Chief of the Innovation Strategy of Midi-Pyrenées, expert on innovation strategies
- Mr. Olivier Rey, Pays Couserans Manager, e-RESATER Project Manager.

¹ LE GOFF-PRONOST M., PICARD R., 2011, "Need for ICTs assessment in health sector: a multidimensional framework", Communications and Strategies, No. 83, 3rd Q., 87-108.





 Mr. Juan Coll Clavero, MD in Surgery and Medicine, Innovation and New Technologies Manager, Expert on Telemonitoring and Healthcare Innovation Projects.

3.2.- Project Indicators

The indicators presented in the following paragraphs are those defined in the proposal of the e-RESATER project. These indicators have been updated during the project lifetime. During the initial phase, only numbers were stored but after some of the experts meeting, it has also been recorded the value, the explanation about the collection method and some feedback about each item.

3.2.1.- Project Fulfilment

Fulfilment Indicators	Unit Goal Value Reached 30/6/2015			Comments	
			Value	%	
A.1.3 Entities that have collaborated at the project development	Number of entities	50	57	114 %	Including partners, experts, third parties, speakers and other participants at the project activities
A.1.4 Companies and SMEs taking part in the financial innovation partnerships (N ^o)	Companies	10	25	250 %	Companies which have participated at the open innovation process (participation at the local and transnational meetings of the GT3 and at the open innovation process) and in direct contacts with the partners
A.1.1 Project about the R&D development and about innovation networks.	Projects	1	1	100 %	e-RESATER
A.2.6 New forums at the observatory of the project platform.	Forums	3	4	133 %	Four forums were created: three (finally grouped into one) related to the discussion groups included in the project seminars and workshops. Besides this, a forum about open innovation was created to give support to the open innovation process. The online activity was not as intense as expected. This was balanced out with the participation at the seminars and workshops which was highly above the initial forecast.
A.2.7 Workshops of the e- RESATER knowledge network.	Workshops	2	4	200 %	Oviedo, Zamora, Barbastro, Toulouse
A.2.2 Transnational Steering Committees organized at e- RESATER	Committees	6	7	116 %	Vilanova de Famaliçao, Oviedo, Madrid, Zamora, Barbastro, San Sebastián, Toulouse
A.2.8 On-line applications involving an approach between healthcare and social care professionals	Applications	2	5	250 %	Vitlab, Forums on Vitlab. Applications from SALUD, ECHOSANTÉ and FACC.
A.2.1 Transnational Seminars organized at e-RESATER	Seminaries	4	6	150 %	Two Seminars in Portugal and 4 GT3 seminars in Barbastro and Saint Lizier
A.2.5 Evaluation documents (experts) created at e-RESATER	Documents	30	32	106 %	Update on project indicators, Open Innovation Process Documents, Final Document,
A.2.4 Communication Supports created for e-RESATER	Supports	10	11	100 %	Material (posters, videos, newsletters, press compendium, web sites) created for the seminars, workshops and vitlab.
A.2.3 Entities at the e-RESATER distribution list.	Organizations	150	285	190 %	Entities belonging to the partners distribution lists, workshop attendants.

Table 2: Indicators: fulfillment



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Picture 2: Participants at the e-RESATER network workshop at Barbastro

3.2.2.- Project Results

Result indicators	Unit	Goal	Value Reached 30/6/2015		Comments
			Value	%	
B.1.4 Tools (applications and services for the technological transfer between technological centers and companies and SMEs) set up in the SUDOE regions and countries (N ^o)	N°	3	6	200 %	 Telemonitoring application (Aragón) HAD, EHPAD application (Pays Couserans) DMSP. Dossier Medico Social Partagé (PC) VITLAB Technological solution for socio-medical coordination approach in a web environment and mobile devices (Asturias)
B.1.5 Companies and SMEs which have enjoyed the successful projects results (N ^o)	N°	500	248	49 %	Approach to the number of companies who have participated at the project activities.
B.1.3 Cooperation transnational network created. (Nº)	N°	1	1	100 %	The cooperation network between partners has been developed. There is a new agreement with a European project (Mastermind ICT-PSP GA 621000) for the interchange of knowledge and the dissemination of the information.
B.2.3 Professionals/users who have participated at a project activity (men)	N°	70	76	108 %	Number of members of the committees and professionals who have participated at any of the project activities
B.2.2 Participants at the forums (women)	N°	35	152	434 %	This is the number of women participating at the workshops
B.2.8 Users of the platform services (women)	N°	15	38	253%	Number of women registered at the platform
B.2.5 Professionals / users who have received the communication support (men)	N°	2.000	800	40 %	Men in the distribution list and who have participated at the workshops
B.2.7 Users of the platform services (men)	N°	35	69	197 %	Number of men registered at the platform
B.2.9 Number of connections to the platform	N°	10.000	61225	612 %	Total number of visits to the platform and to the SALUD e-RESATER website
B.2.1 Participants at the forums (men)	N°	65,00	130	200 %	This is the number of men participating at the workshops (not including Toulouse)
B.2.6 Professionals / users who have received the communication support (women)	N°	1.000	400	40 %	Women in the distribution list and who have participated at the workshops
B.2.4 Professionals/users who have participated at a project activity (women)	N°	30,00	87	290%	Number of members of the committees and professionals who have participated at any of the project activities

Table 3: Indicators: results





3.2.3.- Project Impact

Impact Indicators	Unit	Goal Value	Value 30/06/2015	Reached	Comments
			Value	%	
C.1.4.2 Working positions created (women)	N°	2	3	150 %	Echo-Santé and INTRAS (2)
C.1.2 Lasting cooperation networks settled (N ^o)	N°	1	1	100 %	e-RESATER
C.1.4.1 Working positions created (men)	N°	2	1	50 %	SALUD (Total goal number between women and men achieved by adding C.1.4.2.)
C.2.2 New methodologies of innovation markets methodologies	N°	3	3	100 %	Couserans and SALUD have worked in the open innovation process for a telemonitoring platform. INTRAS has developed an innovative negotiation methodology in the VITLAB framework FACC has worked with local associations, institutions and private companies to set up its local application.
C.2.3 Professionals (health and social) potential beneficiaries of the e-RESATER local applications.	N°	250	300	120 %	Healthcare and social care professionals at the nursing homes, establishments and healthcare centers where the local applications have been piloted.
C.2.1 Patients who have enjoyed the e-RESATER local applications	N°	1.500	8200	546,67 %	Total number = 200 people in the SALUD and Couserans applications and 8000 approximately in Asturias

Table 4: Indicators: impact

3.2.4.- Comments on project indicators

[Experts INPUT] These are monitoring indicators of a project, at a global level. They permit the description of the project itself and of its impact.

This panel of classic indicators - goals, results, impact - gives a global picture of the whole project. In spite of this, this analysis can't go further than the junction of the indicators, without taking into account the strengths – many – and the weaknesses, especially in terms of the impact, which are a clear indicator of the actual maturity state of the telemedicine.

3.2.4.1.- Main outcomes

Besides the "quantitative" data from the indicators, the main tangible results from e-RESATER are those which have arisen from the activities performed at the different work packages that made up the project, especially under the "technical" work packages:

 GT2: VITLAB: The GT2 work package has been focused in the development and maintenance of the VITLAB (<u>http://vitlab.resater.eu</u>). The VITLAB is an information web portal, an open innovation tool around e-health and e-social services and a living lab. It concentrates the activities, the knowledge, the initiatives, the tools and the stakeholders in an innovation environment. The



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number of visits and accesses to this tool and its inclusion in the ENOLL (European Network of Living Labs) are the most tangible results of the work performed.



Picture 3: e-RESATER Vitlab (http://vitlab.resater.eu)

- **GT3: LOCAL APPLICATIONS.** This work package was based on the local e-health applications to be studied, adapted or developed, set up and evaluated at different rural areas and the dissemination of the knowledge gathered during these experiences. The applications included in this work package are:
 - Telemonitoring service in elderly Homes (Aragón, by SALUD and FDS)
 - Asturias Actua en SALUD Health Observatory (Asturias, by FACC)
 - Elderly Homes monitoring tool (Pays Couserans, by Echosanté)
 - Home Hospitalization monitoring tool (Pays Couserans, by Echosanté)
 - Shared Health and Social Electronic Record (Pays Couserans, by Echosanté)
 - Social Record (Gers, by UDCCASS)
 - VITLAB (Zamora, by INTRAS)

Besides the applications, an open innovation procedure was defined and initiated and a deep collaboration environment has been setup and enhanced between the Pays Couserans area (from MidiPyrenees) and the Barbastro Healthcare Area (from SALUD-Aragón).

 GT4. KNOWLEDGE NETWORK. A network of collaboration has been set up with hundreds of participants at several events. The seminars and workshops during the project have given the attendants the opportunity to improve the knowledge, to enhance their experiences and to do networking. Three main lines of work have been transversal through the whole project: models, tools and evaluation in the fields of integrated (social, health and also mental) care and open innovation in rural areas.





3.2.4.2.- Determining factors (easing and impeding)

It is difficult to draw up a set of conclusions that might apply to e-RESATER as the project has included a very wide set of assorted activities and initiatives. The ideas that have supported these actions are open innovation, integrated (health, social and mental) care, knowledge networks, e-health and rural areas, among others.

3.2.4.2.1.- Easing factors

<u>Rural and remote areas</u> usually belong to small and controlled environments which are the most suitable locations to design, to setup and to assess innovation initiatives. Thanks to their restrained characteristics and to the evaluation processes can be more acute and the analysis of the results can lead to a better eventual scaling up of the pilot experiences.

The **<u>involvement</u>** of all the <u>stakeholders from the beginning</u> is an enabler for innovation. Training procedures, information campaigns and the participation of all the agents in all the stages of the innovation processes contribute to more successful results.

Participation of members from distinct areas, developing tasks at different levels of specialization and belonging to organizations from the public and also from the private sectors enrich the innovation procedures and help in narrowing the gap between the supply and the demand side.

3.2.4.2.2.- Impeding factors

The idea that the technology is the solution is usually a mistake, as <u>technology</u> should be considered as an enabler and <u>not as an end in itself</u>. For instance, the creation of the forums in the VITLAB did not achieve the expected results as it was not the real need and was not underpinned by a real framework of cooperation.

The **professional egos** must be dealt with care, as it is very difficult to handle the innovation processes and the changes without interfering in the personal fears of loss of competences. All the profiles involved must identify an added value resulting from the new processes for each of them.

3.2.4.3.- Assessment of indicator values

[Experts INPUT] The assessment approach is « classic » and it is neither difficult to understand nor to analyze. Nevertheless it is not fully adapted to the understanding of the dynamics of fulfillment and impact.

Most of indicators are usage indicators; it is quite important information for the monitoring of a project. For an innovative project, the results of such indicators can





explain a major part of the success (acceptability from the professionals and patients, cooperation and participation).

- 1. Most of the objectives of the project have been met or even surpassed, so the initial forecast could be considered as realistic.
 - The follow-up and performance of the partners has reached the expected results. This is the impression that can be obtained from an initial analysis of the result indicators, with rates over 100%.
 - There is a similar outcome in terms of internal management: steering committees, workshops the dynamization of the whole project is clear.
- 2. The result indicators confirm the first impressions, as the rates are also higher or equal to 100%. It should be highlighted that if the use of the tools is not a barrier any more, the use of them is not as high as it would be expected. The high number of connections could be explained mostly by the search of information (or of training materials). The use of ICT is not fully natural and integrated yet in the daily practice, probably because the concept, at least regarding telemedicine and even the more open design, is still not part of the use/conceptual customs

There is a real consistency between the indicators and the results. It is interesting to follow over a long time period the evolution of the results; it will be the tool for strategic considerations.

The weakness of the result for the impact indicators should be downplayed and considered conjunction with the values obtained for the other indicators and with an analysis of the "youth" of the projects. The projects that are currently on going should be followed up.

3.3.- Open Innovation Process

An **Open Innovation Process** was designed and initiated in the framework of the WP3 (Local Applications Development). The context of this initiative was the co-development of a vital signs telemonitoring application with a universal perspective, based on the requirements from both the Aragón and the Pays Couserans healthcare organizations.

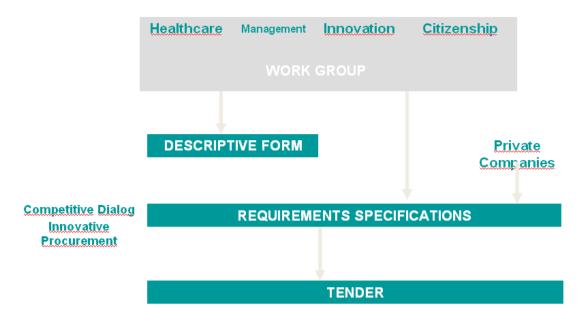
The main reason to carry out this process was to trigger a framework of collaboration including private companies, public institutions, user associations and educational institutions. The final aim is to develop an open innovation process where all the stakeholders benefit and get some profit from the interaction.

The public provider can use the resulting tool without paying licenses that could hinder the service sustainability in the mid-term, the private company can validate the application in a real environment and can transfer this solution to other environments to





take advantage of it, the users can tailor the offer to their demands and the educational institutions can collaborate, provide advice and enhance their knowledge.



Picture 4: Open Innovation Methodology

The process designed included a first step in which a set of physical meetings took place involving private companies, user representatives, public organizations and educational institutions. The major aim of these meetings was to narrow the gap between the supplier group and the demand side in order to have a wider knowledge about the existing applications and also about the real needs.

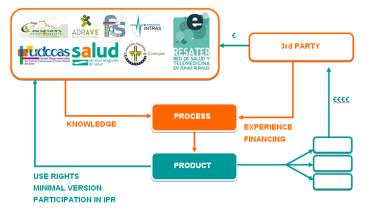
Once this process ended, a generic descriptive form including the main characteristics of the demand side was published in order to gather inputs from other stakeholders. This publication was made through the web and also through the mailing lists distribution.

The inputs from this process were put together as a requirements specification document which is ready to be published as a final tender.

Besides the open innovation process, a model for the return of investment based on the shared Intellectual Property Rights (IPR) exploitation was designed.







Picture 5: Model for the return of investment

3.3.1.- Open Innovation Indicators

A set of indicators designed for the open innovation process and different from those of the general project were defined. These indicators were based on the goals defined for the Open Innovation Process.

Goal	Indicator	Number
1 Approach	1.1 Number of presentations of private sector solutions	9
between supply	1.2 Number of private companies participating in the presentation sessions	9
and demand	1.3 Number of presentations about the needs of the public side	100
	1.4 Investment in public innovation procurement (PCP)	0
2 Opening degree	2.1 Number of prívate companies (micro-companies, SMEs, Big companies)	52
(participants)	participating	45
	2.2 Number of academic institutions participating	15
	2.3 Number of administrative organizations participating	3
	2.4 Number of user associations participating	6
	2.5 Number of countries involved	3
	2.6 Number of different profiles involved	7
	2.7 Number of institutes / research organisations involved	2
3 Open	3.1 Expected investment in open innovation processes	0
Innovation Process	3.2 Participation in technological networks	2
	3.3 Number of companies participating with an active role	5
	3.4 Number of innovation plans carried out	1
	3.5 Number of suggestions from the social agents (users and users associations)	2
4 Process Results	4.1 Number of financing resources obtained	0
	4.2 % of external financing	0
	4.3 IPR generated / Patents generated	1
	4.4 Number of jobs created (rural media / total)	0
	4.5 Number of agreemens signed	1
	4.6 Number of applications designed	2
	4.7 Number of applications developed	2
	4.8 Number of applications checked	2
	4.9 Number of new interactions between collaborators	2
	4.10 Documents about return of investment generated	2
	4.11 Number of sources of return of investment generated	0

Table 5: Open Innovation Indicators



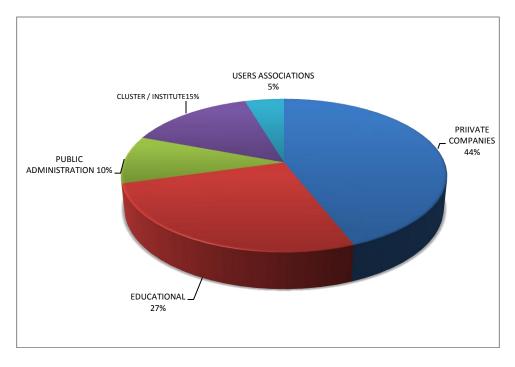


As it was the first experience in this field, there was no goal for these indicators and only the raw values are provided.

3.3.2.- Open Innovation Results

The analysis of the indicators shows that only some of the goals were reached:

- The approach between the supply and the demand. A large set of interactions were produced in this context, with all the stakeholders participating.



Picture 6: Participation at the Open Innovation Process

- The call was sent to 109 contacts (from the SALUD site) and 28 contacts (from the Pays Couserans site). The distribution of the recipients of this document is shown in the chart above.
- 66 entities visited the web site specifically designed for this purpose. 7 inputs were received: one input from one user, two descriptive forms filled-in and four requests for contact with the entities. The figures are not very impressive but they can be considered as a success as the procedure was new and no economic incentive was offered in it. Moreover, thanks to this initiative some local companies contacted the partners and collaborations have arisen since then.

[Experts Input] The open characteristic of the innovation has worked, but it is difficult to go further as there is not much feedback from other participants. Moreover, it seems that there is not actually a structured model that could evaluate this kind of initiative.





As in this project the main marker of the success of the process was the resulting working prototype of service: this is most understandable regarding the level of funding, the duration and foremost the novelty of the process and therefore the need for a sound obvious endpoint. It would be interesting for the European Citizen if further action could be taken to:

- 1. Assess if the prototypes could endure/end up as operational economically sound services.
- 2. If those who took part in the Vitlab forums without actually, eventually, taking part in the final prototype had a benefit or would expect a benefit from their participation.
- 3. Set a legal follow up for possible "side effects" mostly regarding intellectual property issues.

Open innovation is looking into the action of all stakeholders. Within e-Resater, dynamic is initiated, each stakeholder has to find its motivation to move towards an open innovation network of knowledge sharing, know-how and interactions. E-Resater is at the beginning of co-creation and allows testing a new framework of telemedicine driving, based on resources pooling and local initiatives support. It is based on an operating multi-actor design process as oppose to co-design where intellectual property aspects and expected revenue as a secondary factor and participants regarded as individuals rather than representative of the various stakeholders.

3.4.- Local Applications

The local applications that have been included in the experimentations of the GT3 (Local Applications) in e-RESATER and their promoters at local level are:

- Telemonitoring service in elderly Homes (Aragón, by SALUD and FDS)
- Elderly Homes monitoring tool (Pays Couserans, by Echosanté)
- Home Hospitalization monitoring tool (Pays Couserans, by Echosanté)
- VITLAB (Zamora, by INTRAS)
- Asturias Actua en SALUD Health Observatory (Asturias, by FACC)
- Shared Health and Social Electronic Record (Pays Couserans, by Echosanté)
- Social Record (Gers, by UDCCASS)

The GEMSA methodology has been used to evaluate the local applications in this workpackage.

The Social Record from UDCCASS and the Shared Health and Social Electronic Record from Pays Couserans haven't been fully included in the GEMSA evaluation as their activity was more focused on the initial phases of development (analysis and design) rather than on the experimentation phase.





3.4.1.- GEMSA Methodology

GEMSA is a methodology used for the assessment of telemedicine projects. It includes three main steps:

- The fulfillment of a <u>descriptive form</u> with the main characteristics of the application which major aim is to describe it carefully and to give a detailed idea about the goal, the methodology and the resources.
- The fulfillment of <u>an evaluation framework</u> organized around five axes (strategy, technology, economy, organization and Quality and Use), with questions for each axe. This grid includes a set of questions in order to analyze the application around these axes, with indicators for each field.
- The **<u>evaluation from an experts group</u>** who analyses the results and assesses the outcomes.

GEMSA grid /framework was shared by all the local initiatives. GEMSA is a quite consequent list of questioning, but a common work permits a process of convergence towards a limited list of indicators. The selected axes are presented in the following table.

Strategy axis	Technology axis	Organisation axis	Quality and uses axis	Economic axis
Sub-axis 1: Identification of health, public health or solidarity issues-	Sub-axis 1: Scientific or technologic innovation	Sub-axis 1: Repartition and mobilisation of knowledge	Sub-axis 1: Contribution to the patient and its relatives	Sub-axis 1: Identification of system costs
Sub-axis 2 : program rationale	Sub-axis 2: Innovation mastery	Sub-axis 2: Modalities of exchange in the care process	Sub-axis 2: Contribution to the professionals	Sub-axis 2: Savings allowed by the system
Sub-axis 3: Impact on stakeholders practice		Sub-axis 3: Resolutions of operational conflicts, professional coordination	Sub-axis 3: Ethics of the solution	Sub-axis 3: intensity of use

Table 6: GEMSA axis and sub-axis distribution





3.4.2.- GEMSA: Telemonitoring at Elderly Homes Aragón

The service tested in the framework of the e-RESATER project in Aragón is the **"Telemonitoring of Vital Signs of elders living at elderly homes".**

One existing application for telemonitoring of vital signs oriented to users who live at home has been adapted to the elders' homes environment, and it has been tested at three elderly homes from the eastern part of the Huesca province, in the North of Aragón (Spain)

The pilot has consisted of the telemonitoring of vital signs of 125 people living at three elderly homes from the Barbastro Healthcare Sector. General Practitioners from the Public Healthcare provider, healthcare professionals and social carers from the elders' home have participated in this project in which it has been evaluated the transfer of roles and of activity thanks to ICT.

3.4.2.1.- General description of the application

The main goals of this experience were:

- to assess the service of the **tele-monitoring of vital signs of citizens living at** elderly homes
- to set up a service oriented to increase the sustainability of the public institutions with the help of ICT by transferring some activity from the public institutions to the private sector and from the healthcare professionals to the social care staff.
- to evaluate this new model under a methodology oriented to the assessment of telemedicine project based on five axes: strategy, technology, organization, quality, economy and project management.

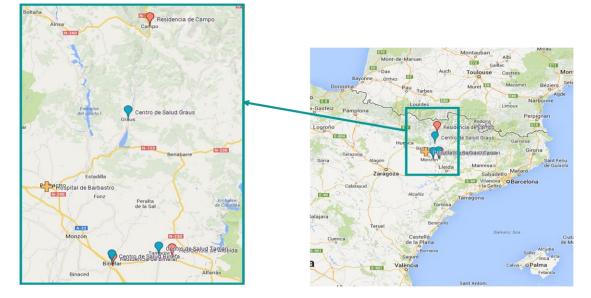
The setting in which this part of the project has been developed is the Barbastro Healthcare Sector, located in the middle-east part of the Huesca province, with a population of 110000 inhabitants living in an area of 7500 km². It is a vast area, with a small density of population and with an ageing rate of 28%, higher than at other areas of Aragón and of Spain.

The stakeholders participating in this initiative are the Barbastro Healthcare Area, as the public provider (primary care and specialized) from the SALUD (Aragonais Regional Healthcare Service) and the management of the Elderly Homes. The elderly homes where the trial has been performed are: Valle de Ésera (Campo), Comarcal de Binéfar (Binéfar) and La Sabina (Albelda).



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Picture 7: Location of the Eldery Homes and Healthcare Centres at the Aragón pilot



Picture 8: Pictures of the Elderly Homes participating at the Aragón Pilot

All the people living in these establishments were eligible to participate in the pilot, so the **inclusion criteria** were only dwelling in one of these institutions.

The **exclusion criteria** for participants was to have an attitude against technology, or the opinion of the healthcare professionals who might consider that this service would not add quality to the user attention (patients in palliative care, patients with dementia or patients without any of the pathologies under study).

The monitoring schedule, the measurements to be taken and instructions were decided by the General Practitioner. The vital signs to be captured were based on the clinical record of the patient (and on the existence of at least one of these pathologies: COPD, CVA, Myocardial infarction, diabetes mellitus, history of stroke). With this profile, a set of measurements were chosen: blood pressure, oxymetry – SpO2, heart rate, temperature, glycemia, ECG.



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	Blood Pressure	Heart Rate	ECG	Sp02	Glycemia	Temperature
Heart Failure	х	х		х		х
Myocardial Infartion	х	х	х			х
Cerebro Vascular Accident	х	х				х
Chronic Obstructive Pulmonary Disease (COPD)	Х	х		х		х
Diabetes (DM)	Х	Х			Х	Х

Table 7: Relationship between pathologies and measurements at the Aragón pilot

A set of pathologies and of threshold values for each measurement were set by the GP for each patient. There was also a set of generic values that might apply to most of the participants.



Picture 9: Tables with pathologies, devices and threshold values for each measurement

Once the schedule and the instructions are decided by the GP, the non healthcare staff from the elderly homes is in charge of taking the vital signs of the residents with a technological kit. The data gathered is sent automatically to the SALUD Information Systems and is stored in the appropriate databases. If these values are out of the normal range pre-set for each patient, an alarm is triggered. The alarms can be: type 1 (light deviation, when it occurs, an email is sent) or type 2 (strong deviation, an SMS is sent).

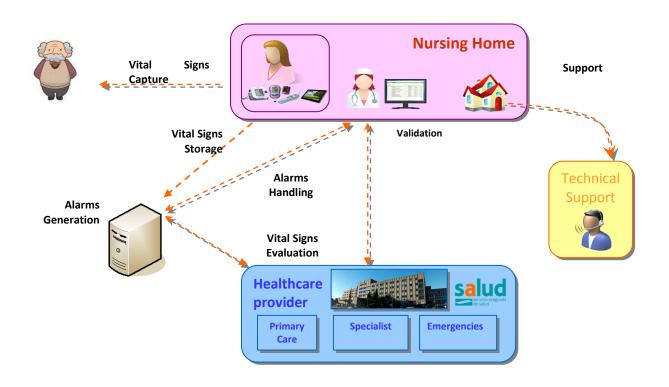
	Deviation	Notification	Attention Required
Alarms Type I	Mild	E-mail	Non immediate
Alarms Type II	Acute	SMS	Immediate

Table 8: Alarms and alarm handling in the Aragón pilot





These alarms are handled by the healthcare staff from the nursing home and the information gathered is accessible by them and also by the Primary Care Teams. The values that caused alarms of type 2 and at least one measurement per month are stored at the SALUD Information Systems (OMI-AP. Primary Care EHR).



Picture 10: Methodology at the Aragón pilot

The healthcare staff from the nursing home acts as the "Contact Centre" of the pilot. Its mission is to handle whatever extra situation arises from the vital signs capture. When an alarm occurs it is sent by email (type 1- light) or by SMS (type 2 – severe) to the healthcare staff of the elderly home. They validate the alarm (check if it is a real value out of range and not a false positive) and take action if needed.

The personnel from the Primary Care teams has access to the telemonitoring data and is in contact with the members of the "Contact Centre" of the elderly home to interchange whatever information they might consider relevant.

Each elderly home has a telemonitoring kit made up of a tablet PC, a tensiometer, a pulsioxymeter, a glucometer, an ECG and a tympanic thermometer. The capture of the vital signs is sent through Bluetooth to the tablet PC. The tablet PC sends the data automatically through WiFi to the telemonitoring portal.





The general characteristics of each individual experimentation at local level can be checked in the following table.

	Binéfar	Campo	Albelda
Initial date	29/04/2014	01/04/2014	20/05/2014
End date	30/10/2014	28/02/2015	07/04/2015
Length of the trial	6 months	10 months	10 months
Frequency of the vital signs capture	Monthly	Monthly	Weekly
Values used for the alarms thresholds	Generic	Generic	Specific for each patient
Number of users included	50 (17+9 out))	27	41 (2 out)
Number of women	20	12	29
Number of men	30	15	12
Average age	85,22	84,88	86,19
Average age women	87,35	87,25	87
Average age men	83,8	82,85	84,25

Table 9: General characteristics of the local experimentations at the Aragón pilot

The GPs in charge of two nursing homes (Campo and Albelda) choose the monthly schedule for the vital signs capture and the GP at "La Sabina" from Albelda preferred the weekly basis, which is the frequency that had been established in previous experiences (DREAMING^[1] and PITES^[2]).

Each nursing home has a different organizational and funding model:

- The Binéfar nursing home is public and its funding depends on the comarca (intermediate organizational structure between the province and the municipality) authorities.
- The Campo elderly home has a mixed model (public funding from the local authorities and a private management).
- The Albelda elderly home has a fully private model.

The following table shows the healthcare personnel both from the SALUD and from the elderly homes that has been involved in the development of the pilot.





Location	Binéfar	Campo	Albelda
Institution (Elderly Home)	Comarcal de Binéfar	Valle de Ésera	La Sabina
Healthcare staff	Victoria Delgado María José Palacio	M.A. Trigo	Mayca Blanc Esther Blanc
Primary Care Team	Dra. MªD. Muñoz	(Dra. Mª T. Feo) Dra. María José Nicolás	(Dr. JM Leris) Dra. M. Pascual



Table 10: Participants at the Aragón pilot

3.4.2.2.- GEMSA Descriptive Form (summary)

The complete version of this form can be checked on annex 5.1.

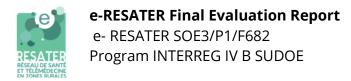
Name of the application: Telemonitoring Service at Elderly Homes Promoters of the project: SALUD (Barbastro Healthcare Sector) and FDS

Public needs treated:

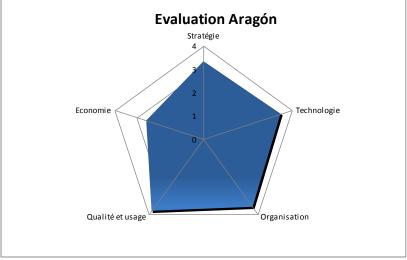
- Chronic patients telemonitoring
- To bring closer healthcare to elderly homes
- To bring closer healthcare to rural areas

Added value:

- Transfer of competences from the healthcare sector to the third sectors (vital signs measurement)
- Storage and automatic processing of the schedule and the measurements of vital signs.







3.4.2.3.- GEMSA Evaluation Chart

Picture 11: GEMSA Evaluation Chart Aragón

The results from the GEMSA evaluation grid show a high performance in the five axes examined, especially in the Quality and Use and Organization ones. The technology and strategy components have lower values and the economic part is the one with the smaller rate.

- The **quality and use impact indicator** has a high value that is based on the satisfaction of the participants especially of the end users involved with the service provided. The user satisfaction was measured through the assessment of the questions in the forms that can be found on the Annex II of this document.
- The **organizational impact** is high as the solution contributes to the transfer of tasks between professionals. Thanks to the questionnaires of satisfaction that the professionals have filled in it has also been demonstrated that the solution is adequate and that implies a change in the roles of the staff involved.
- The **technological innovation** has a medium score at the evaluation grid. The technology used for the project (monitoring devices, tablet PCs, alarms handling and servers) had already been set up and evaluated in previous projects. The real innovation in this experience is the integration of these tools in external organizations (elderly homes) and the impact of this integration both at these entities and at the healthcare provider.
- The **strategy evaluation** depicts a medium impact of the project contribution to solve a problem of public policy in the social and healthcare fields. Despite the fact that the treatment of chronic patients is a topic of high importance in the management of the healthcare organizations, the elderly homes represent only a subset of the whole picture. The approach chosen is not a scientific trial but the evaluation of the impact of a change in the delivery of a service at a specific





context. Previous projects (as DREAMING^[1] and PITES^[2]) evaluated (and others are still assessing) the impact of the use of technology in other environments and this experience is a complementary and new approach to them.

- The **economic indicator** has the lowest value within the Aragón grid. This is due to the fact that the GEMSA approach is more oriented to the generation of new services and economic activity and the analysis under the perspective of a public healthcare provider is mainly focused to the sustainability of the welfare governmental organizations.

The values, sources and the basis for this analysis can be found in the following section. A more complete evaluation in the economic field has been performed in order to scrutinize the data gathered to do the economic analysis.

3.4.2.4.- Evaluation

The generic evaluation about the service "Vital Signs Telemonitoring" at the Elderly Homes in Aragón has been made under four perspectives: economic, quality of life, clinical activity and users satisfaction. Several data have been gathered in order to perform this analysis.

<u> 3.4.2.4.1.- Economic</u>

A deep analysis about the costs of the new service and about the differences between the new approach and the old one has been produced. This analysis is based on the Albelda elderly home in which the data acquisition, the methodology and the length of the experience can give a broader perspective about the impact.

The following table shows what are the total <u>costs estimated for a group of 41 users in</u> the Albelda elderly home for a period of 10 months.

The "PRE Group" column includes the costs related to the previous existing service (the vital signs capture traditionally performed by the nurses at the elderly homes) and the "e-RESATER" column shows the costs related to the service evaluated in e-RESATER.

The <u>equipment and operative costs</u> are those related to the acquisition of the devices involved, the software licenses and infrastructure necessary to set up the service, and other costs related to the material needed. Two remarks can be added to this table:

- The equipment costs in e-RESATER have been fully included, without taking into account the amortization costs (the total amount could be paid off in a period of 5 years)
- The equipment costs in the PRE column have not been included as they have been considered as insignificant to the whole amount.



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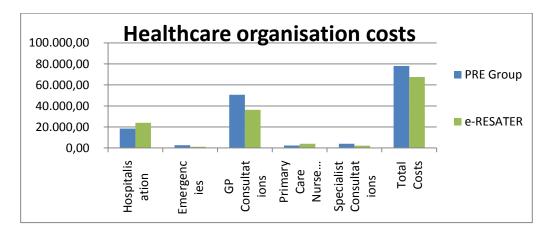
Vital Signs Monitoring Costs		
	PRE	e-RESATER
Equipment costs		7.035,70
1 Tablet PC + 1 Kit Telemonitoring Devices		1485,7
SW Tablet PC		550
Call Center + Server		5.000,00
Operative costs		1.186,80
Glucose Strips		172,8
Software Licenses for Call Centre		1000
SMS		14
Staff at the Elderly Homes	610,40	1.719,75
Time invested by non healthcare staff		1.719,75
Time invested by nurses	610,40	585,99
Total Costs of the Service		9.942,25

Healthcare Costs	PRE	e-RESATER
Hospitalisation	18.495,00	23.975,00
Emergencies	2.584,00	1.088,00
GP Consultations	50.551,29	36.346,32
Primary Care Nurse Consultations	2.336,53	3.947,93
Specialist Consultations	4.020,00	2.144,00
Total Healthcare Costs	77.986,82	67.501,25

Table 11: Comparison of costs between the traditional service and e-RESATER

The <u>staff costs</u> include the time invested by the personnel to capture and to evaluate the vital signs. In the e-RESATER column the "Time invested by non healthcare staff" is the time related to the vital signs capture and the "Time invested by healthcare staff" is the time used to validate the alarm values and to examine the results of the measurements.

The <u>healthcare costs</u> rows include the expenditure related to the consumption of services at the healthcare organization related to the users included in the program during the e-RESATER period and in the PRE column those related to the same people at the same period one year in advance (without the e-RESATER service). This information can be visually seen in the following bar chart.



Picture 12: Healthcare organization expenses related to the patients in Albelda





The next table is a summary of the total costs including the service costs and the healthcare costs, the total amount and the amount per patient (total amount divided by the number of patients).

Total costs	PRE	e-RES Group
Service costs (Elderly home)		9.928,25€
Healthcare costs	77.986,82€	67.501,25€
Total Costs	77.986,82 €	77.429,50 €
Cost per patient	PRE	e-RES Group
Service costs		198,56€
Healthcare costs	1.559,74€	1.350,03€
Total Costs per patient	1.559,74 €	1.548,59€

Table 12: Global and per patient total costs

The total expenditure is similar (or even smaller with e-RESATER if we take into account the amortization costs), but there is a transfer on the outlay from the healthcare organization to the private entity (in this case the private entity).

<u>3.4.2.4.2.- Quality of life</u>

Most of the participants in the program filled in the Yesavage questionnaire (a questionnaire for elderly people designed to measure the degree of depression) before and after the pilot. The analysis of the data gathered from these questionnaires did not allow drawing any conclusion. The seasonality, the lack of a direct intervention on the patient and the evolution of the time could vary the results and the conclusions from this analysis.

Nevertheless other results indicate that the new model results on a higher quality of life related with less suffering on the patient side:

- **Early detection.** Two atrial fibrillations, two hypoglycaemias, two hyperglycaemias and several blood pressure disorders were detected and considered as in the Albelda elderly home during the pilot.
- **Impact on prevention.** The treatments for diabetic and users having high blood pressure were better adjusted thanks to the data gathered in e-RESATER, as some of them had decompensations which had not been detected before.
- **Less access to emergencies** in the e-RESATER group that could be seen as a direct indicator of a better quality of life.

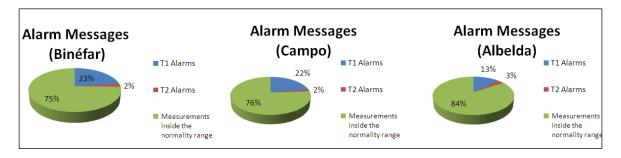




3.4.2.4.3.- Clinical Activity

The analysis made under this section is related to the clinical data gathered during the project including the vital signs capture from all the users at the elderly homes.

The following pie charts show the percentage of alarms that resulted among the total number of measurements made.

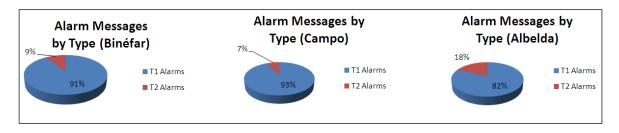


Picture 13: % of vital signs capture that generate alarms

The data gathered during the e-RESATER project is slightly different from the information at previous projects ((DREAMING^[1] and PITES^[2]). The number of alarms was higher in e-RESATER than in these projects. There could be many reasons for these differences, being the most reasonable: the health status of the people living at the elderly homes, which is likely to be worse than of those staying at their homes, and the difference in the validation criteria procedure for alarms at the Healthcare Institution (with more experience) and at the elders home (with less background, and less used to erase from the application false positive alarms).

The percentage of alarms in Albelda is lower than in Binéfar or Campo. This is probably due to the fact that the GP at Albelda set the threshold alarm values specifically for each measurement to be taken to each patient.

There is also another difference to be taken into account. There is a remarkable difference between the distribution of alarms of type 1 and type 2 in the Albelda elderly home. The reason for this difference could be also the specific values set for each patient.

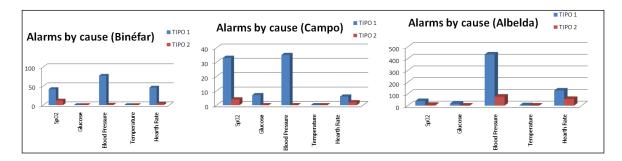


Picture 14: Distribution of alarms by type





Regarding the cause of the alarms, there are not big differences among the three sites (neither with the results from other projects). Most of the alarms are related to blood pressure, heart rate and saturation. There is a higher prevalence of blood pressure alarms in Campo. There might be two main reasons for this behavior: the capture basis was more frequent for this measurement and the town is located at a higher location which might lead to lower oxymetry values.



Picture 15: Distribution of alarms by cause

The data related to the consumption of direct healthcare services show that the number of external consultations and emergencies has decreased during the project and also the number of GP consultations. On the other hand, the number of nurse consultations has increased.

The reduced number of users and the lack of control over other factors force a conservative and wary analysis of these results. Nevertheless, it seems that the new service eases the transfer of activity from emergency to scheduled activity.

HOSPITAL ACTIVITY			
	PRE 1/6/2013-> 31/3/2014	PROJECT 1/6/2014-> 31/3/2015	
External consultations	60	32	
Admisions	0	1	
Emergencies	19	8	
PRIMARY CARE			
		PROJECT 1/6/2014 -> 31/3/2015	
Total Nurse Consultations	203	343	
Total GP Consultations	879	632	

Table 13: Comparative of healthcare services demand in Albelda





3.4.2.4.4.- User Satisfaction

All the participants in the project were invited to fill in questionnaires about user satisfaction. These questionnaires can be checked on the annex II of this document.

- The **professionals' questionnaires** included questions about the general evaluation of the service. The answers have been classified into three groups:
 - o <u>Technology</u>
 - The technology devices and software have been easy to handle with and considered as useful. Nevertheless there are some improvements that have been suggested in order to facilitate the daily work and to reduce the time invested in the service. These suggestions have been collected in a document and some of them have already been implemented in the new versions of the platforms involved.
 - Assessment of the service
 - The big majority of the professionals involved manifest that this methodology leads to a better control of the chronic pathologies. The remaining group does not think that there is a significant difference with the traditional model.
 - The answers differ depending on the type of organization. The public elderly homes are more reluctant to the change as they claim that the existing service already provided has the same high standard as the e-RESATER one while the private entities see the new provision as an opportunity and an added value.
 - o <u>Transfer of activity</u>
 - The healthcare staff (both at the healthcare organization and at the elderly home) recognizes the worth of the service and the improvement of the specialization of the task they perform. But they also perceive a risk in the transfer of activities to other sectors.
 - The non-healthcare staff at the elderly home values the service but they admit that it is an extra activity that implies time and that must be scheduled in their daily work.
- The <u>final beneficiaries</u> (the people living at the elderly homes) think that the service is positive for them as they feel safer and they perceive an improvement of the control of their pathologies. All the users who were asked have declared that they would accept to pay a fee to receive this kind of service.





- The <u>managers</u> of the elderly homes have a positive impression about the service. They think that it improves the interaction with the healthcare organization, despite the fact that they think that in general the new approach is more time consuming than the traditional service.

3.4.2.5.- Analysis of results

- <u>Set-up guidelines</u>

- A prior analysis of the organisations, actors and resources involved is a precondition. There must be a previous identification of:
 - <u>The healthcare provider and its role.</u> It would also be desirable to have some kind of integration with their Information Systems in order to do the final transfer of the data to them.
 - <u>The elderly home organisation</u>. Taking into account
 - Staff
 - The healthcare staff (a pre-requisite).
 - The non-healthcare staff (Contact center)
 - Infrastructure
 - A PC to check the collected information
 - A mobile phone to receive the type 2 alarms
 - A wi-fi network / a data card to send the information
 - <u>The technical support centre.</u> In this case it was assumed by the healthcare organisation.
 - The ethics conditions under the specific environment.
- The <u>management</u> of the elderly home must be informed about, believe in the new service and <u>support</u> its deployment.
- <u>Training</u> sessions and training materials must be prepared for all the professionals involved (specially for non healthcare professionals)
- The new service must <u>not be considered as a slight change</u>. Specific tasks must be scheduled for healthcare and non healthcare staff at the elderly home. Time slots must be reserved for the service in the daily routine work.
- <u>Integration</u> with the existing information systems from the healthcare organisation and the elderly homes from the residence is a must.
- The <u>change management</u> must be made taking into account all the professionals involved and informing them about the added value for each of them.

- Determining (easing and impeding) factors

- Easing factors: management concern, involvement of staff. Training.
- Impeding factors: professional egos, slow answer to technological problems. The kind of organisation (public structures have been more reluctant to changes) should also be taken into account.





Direct and indirect results

- Direct results:
 - More specialization of professionals
 - More safety for patients
 - Transfer of cost from the healthcare organisation to the elderly home
- o Indirect results
 - More satisfaction of users
 - More quality of life for patients
 - A distinguishing service for an elderly home
- Possibilities born from this initiative: spin-offs, potential markets, creation of new work positions. The new service could be provided by the personnel of the elderly home but it could also be provided by an external company that might assume any of the roles described in the above sections.

3.4.2.6.- Main conclusions

- It is necessary to create culture to facilitate the change management
 - To work on the <u>ego management</u>. Each group of participant must be able to see the added value of the solution for them. The transfer of activity should be seen as an opportunity and never as a risk.
 - <u>Training and support</u> are necessary to create an environment of trust and confidence on the technology and on the new service.
 - The new service implies
 - The <u>transfer of the activity</u> (and the costs) from the healthcare sector to the non health care sector.
 - The transmission of the task "vital signs capture" from a "high skilled professional" to a <u>non-specialized profile</u>.
 - A <u>vision of the whole picture</u> and not about specific problems is needed.
 The evolution towards vertical and horizontal integration of services is necessary to improve the effectiveness and efficiency of the organizations.
- The <u>quality of life</u> of the final users is enhanced with the new service: there is an improvement of the self- conception of safety, the perception of the quality of attention received and there are clinical findings that impact directly on prevention.
- The <u>technology</u> is ready and mature. Integration with the existing information systems (also those at the elderly home) is a must
- The overall assessment of the new service is positive. The lack of health intermediate results does not allow an evaluation under the therapeutic neither under the palliative perspectives.
- The service is considered as an added value.





3.4.3.- GEMSA: Home Hospitalisation Pays Couserans

The main goal of this application was to provide a **technological platform that would ease the management of the information related to patients included in the Home Hospitalization service.**

The Home Hospitalization service takes care of frail patients with specific pathologies who instead of being admitted at the hospital are treated at home with specific staff and resources. This is particularly important at rural areas located at the mountainous Systems, as the Pyrenees where the communications are poorer than at other locations.

3.4.3.1.- GEMSA Descriptive Form (summary)

The complete version of this form can be checked on annex 5.2.

Name of the application: Non-physical Health Record around the patient in Home Hospitalisation

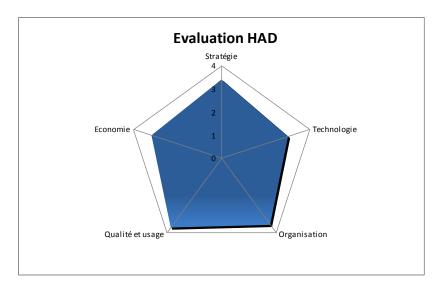
Promoters of the project: Syndicat Mixte du Pays Couserans

Public needs treated:

- Health care of frail patient within the context of a Home Hospitalisation Service in the environment of a rural and mountainous area.

Added value:

- Improvement of the follow-up and the coordination of the different stakeholders at the patient's home.



3.4.3.2.- Evaluation Chart

Picture 16: Gemsa Evaluation Chart Home Hospitalisation Pays Couserans





The results from the GEMSA evaluation grid show a high performance in the five axes examined, especially in the Quality and Use and Organization ones.

- The **quality and use impact indicator** has a high value that is based on the opinions of the professionals and of the stakeholders involved.
- The **organizational impact** is high as the solution contributes to the coordination of tasks between professionals and the sharing of information not only "on-site" at the patient home but also from other locations.
- The **technological innovation** has a medium score at the evaluation grid. The technology used for this experience (monitoring devices, tablet PCs) is being tested and evaluated during the project at the institution, but it does not include devices or technology that has not been previously tested at other locations.
- The **strategy evaluation** achieves a high score which relies on the experience of the promoters at implementing the Home Hospitalization service. It includes high also values in the macro-economic questions (reduction of costs) and at the participation of different professionals and the collaboration of the healthcare institutions.
- The **economic score** is medium as the experience does not include a specific analysis of the impact of the solution in the economic field. Nevertheless, the service implemented already uses tools to evaluate in detail the quality and the costs of service provided (despite the fact that they are not included in the final conclusions of the project).

3.4.3.3.- Evaluation Methodology and Results

<u>3.4.3.3.1.- Methodology</u>

The main goal of the project was **to gather the relevant physiological data** at home of the patients included in the "Home Hospitalisation" service in the context of a follow-up of undetermined length. The operational mode chosen should:

- Gather the information in a reliable way
- Register and record the information in real time, in a centralized way and organized by patient
- Ease the management of the data in real time at individual level.

The chosen process should be sustainable in terms of usage and easy to integrate into routine practice.

The tool should be a real link between the coordination of the Home Hospitalization Service and the care providers (Practitioners, nurses,...) in real time, through an application of care management. This tool should be able: to adapt the care plan, to



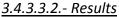


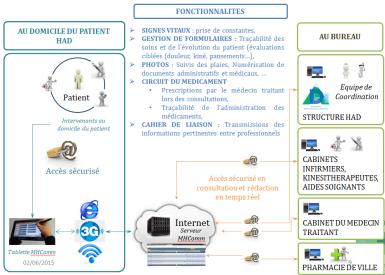
ensure the follow-up of the vital signs, to guarantee the traceability of the actions and to preserve the security of the medicines pathway.

Target group: patients with acute pathologies or with chronic progressive pathologies or / at unstable phases.

The methodology followed included the following steps

- Provision of 5 tablet PCs to do the evaluation at Home Hospitalisation (HH)
- Selection of patients:
 - Location: Saint Girons and surrounding area
 - Patients already included in HH, who know the service and the carers
 - Chronic pathology
 - o Patients without a high demand of care services
 - Carers with a high degree of implication and a good attitude.
- Checking of the connection
 - o 3G Connection or WiFi from the patient home
 - Information to the patient and his / her entourage, explicit consent
- Parametrization of the tool for each patient
 - o Patient data
 - o Carers
 - Profiles and rights of access
 - o Forms
- Training of carers.
 - $\circ~$ 250 potential carers at the Couserans area. 100 at the experimentation area.
 - o Different profiles: Practitioners, physiotherapists, nurses, coordination HH
- Set up of the tablet PC at the patient's home.





Picture 17: Results from the HH experimentation at Couserans





Problems found:

- Parameterization of the server
- Training of professionals
- Connection to the network at the patient's home
- Ergonomics of the solution (to install the tablet in the home environment)

Next steps:

- Identification by card
- Interoperability with another platforms used at HH
- Access to the HH protocols from the tablet PC

3.4.4.- GEMSA: Tele-surveillance of people living at Elderly Homes

3.4.4.1.- GEMSA Descriptive Form (summary)

The complete version of this form can be checked on annex 5.3.

Name of the application: Tele-surveillance of residents and management of emergencies at elderly homes

Promoters of the project: Pays Couserans

Public needs treated: Health Care of frail patients living at elderly homes at rural and mountainous areas

Added value: To perform an assessment and follow-up of the vital signs of frail patients by the carers at their location (elderly home)

Generic Goals:

- To improve the link between the village and the hospital
- To improve the territorial link among the different actors of the care chain
- To be attractive for young practitioners by enhancing the organization with new structures and the use of TICs

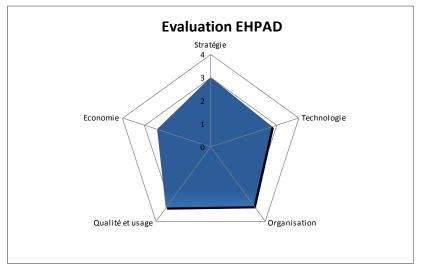
Specific Goals of the telemonitoring service:

- To achieve a specific regulation about the emergencies
- To adapt the care models to the elderly homes
- To schedule the modes of transportation if necessary
- To increase the safety of the network of specialists included in the emergency chain
- To answer to the needs of care continuity within a specific geographical context for a population with a pre-defined risk profile
- To schedule the admissions and to allow, especially for elderly people, the access to specialist consultations without the need of transportation.





In order to achieve these goals, the main task is to choose the more adequate technology in terms of the needs of the participants and the easy and fast use. This should be done with the collaboration of the professionals and local stakeholders. It is also necessary to train the participants with specific sessions and materials.



3.4.4.2.- Results from the Evaluation Grid

Picture 18: GEMSA Evaluation Chart EHPAD Pays Couserans

The results from the GEMSA evaluation grid show a medium-high performance in the axes examined, as the solution tested has not been fully operational and it has been more oriented to the design and the adaptation of an existing tool (tablet PC software to capture vital signs and to register patient information) to a new environment (the elderly homes)

- The **quality and use impact indicator** has a high value that is based on the satisfaction of the participants. All the stakeholders implied have participated in the design and the specification of the new functionalities.
- The **organizational impact** is high as the solution contributes to improve the coordination between General Practitioners, Emergency Services and Specialists.
- The **technological innovation** has a medium score at the evaluation grid. The technology used for the project is the same as for the Home Hospitalization service and it only incorporates improvements necessary for this service.
- The **strategy evaluation** shows a medium impact of the project contribution to solve a problem of public policy in the social and healthcare fields. Despite the fact that the treatment of chronic patients is a topic of high importance in the management of the healthcare organizations, the elderly homes represent only a subset of the whole picture.





- The **economic indicator** has the lowest value within the evaluation grid. This is due to the fact that no economic analysis has been made in this case. In spite of this, all the improvements and the new functionalities are expected to contribute to the sustainability of the service, to the reduction of costs and to improve the service provided.

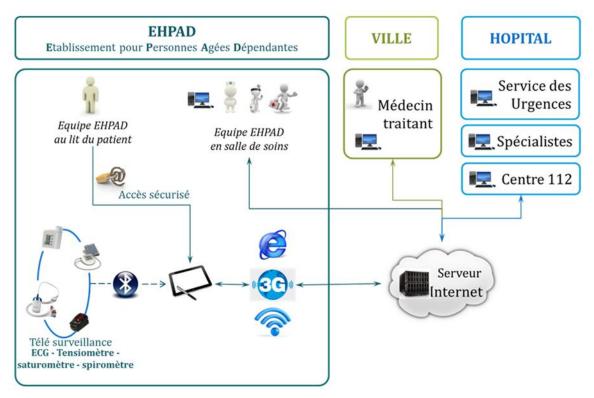
3.4.4.3.- Evaluation Methodology and Results

3.4.4.3.1.- Methodology

The local actors. The experimentation took place at the EHPAD (Etablissement pour Personnes Agées Dépendantes – Establishment for dependent elderly people) at Saint Girons, with the involved staff and volunteers: the coordinator doctor, the health coordinator and the nurses.

The target population. The selected patients were already living at the EHPADs, they were known by the care providers, they presented more than one chronic pathology and they were in frail condition.

The project includes the management of: emergency situations, tele-consultations, scheduled admissions and the enhancement of the Health Record of the patients living at the elderly home.



Picture 19: Results from the EHPAD experimentation at Couserans





<u>3.4.4.3.2.- Results</u>

- Multi-patient solution. More than one Health Record is accessible through a unique device. The traceability of the administration by the carers has also be improved
- Management of the prescriptions. It is possible to integrate the prescriptions into the medicines pathway through the application
- Care plan. Inclusion of the tasks to be performed by the carers, depending on the professional profile
- Access to the central database of medicine Claude Bernard to integrate drugs information
- Inclusion of a therapeutic book for the pharmacies
- Signature of the "confidentiality agreement" for the transmission of interoperability protocols.
- Parameterization of the ECG.
- The link with all the stakeholders in the delivery care chain has not been made operational yet with this material.

3.4.5.- GEMSA: VITLAB Zamora

<u>3.4.5.1.- GEMSA Descriptive Form (summary)</u>

VITLAB is an **open innovation platform** to promote an innovation ecosystem in the fields of e-Health and e-Inclusion through collaborative innovation processes. These processes are based on the capabilities of different agents involved in the development of methodologies, tools and structures oriented to the co-creation of solutions in response to the main challenges experienced by the SUDOE countries in these thematic fields. VITLAB is the visible face of the e-Resater Ecosystem.

The complete version of this form can be checked on annex 5.4.

Name of the application: Virtual Lab for Health and Life Promoters of the project: INTRAS supported by all partners

Public needs treated:

- Raise awareness and promote combined processes and policies for a better balance supply and demand, through participatory and results-oriented approaches open to the entire value chain/stakeholders (support the technology development, suited and centered in the user needs);
- Sustaining the technological offer in a competent and interoperable (in a technical and human level) innovation network.

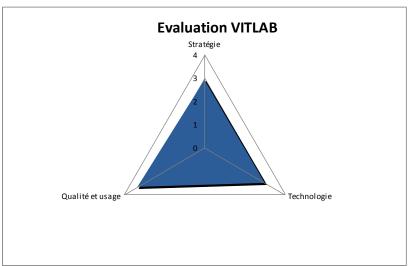




Added value:

- Transpose the e-Resater Quadruple Helix of Innovation to a Co-Working Virtual Environment based on Open Innovation Processes, Information, Tools and Opportunities to bridge the gap decreasing distance and encouraging collaboration;
- Strengthening the e-Resater Knowledge Network encouraging a genuine Open-Innovation and Collaborative ecosystem;
- Flexible Guiding Methodology allowing an Horizontal management by the different partners and e-Resater InnoHub's and services customization (network, content, and resources are continuously changing and improving, given the opportunity for reflecting the growth of local ecosystems and the services offered by each InnoHub and by the network itself);

In short, create value in terms of innovation in products and services, Methodological Innovation, Transfer of Innovation and know-how, Organizational Innovation, Social Innovation.



3.4.5.2.- Results from the Evaluation Grid

Picture 20: GEMSA Evaluation Chart VITLAB

The GEMSA analysis has been made under the axis of strategy, quality and technology. The organization and the economic axes have not been evaluated as this is not an application directly oriented to the use by healthcare providers in the delivery of healthcare services to patients.

- The **quality and use impact indicator** has a high value due to the fact that participation figures demonstrate high acceptance of the tool. The results of the Vitlab survey (<u>http://vitlab.resater.eu</u>) show that more than 50% of the people who have answered the questionnaire think that the VITLAB is an Excellent "Information portal and communication tool for open innovation"





- The **strategy axe** includes the evaluation under the professional impact perspective (high as many healthcare professionals and profiles are involved), frion the public service point of view (high as the vitlab has the spirit of being a universal tool) and under the controlled trial vision (low as it is not the kind of scientific trial that the GEMSA methodology would traditionally evaluate)
- The **technological innovation** has a medium-high score at the evaluation grid. The technology used for the project is open source based and it is in line with today's technological progress. Nevertheless, the CMS used is not a "technological innovation" on its own. The real innovation belongs to the ideas and the use that might come up with its use.

3.4.5.3.- Evaluation Methodology and Results

<u>Evaluation and interactive validation of the VITLAB OI Methodology during the</u> <u>development and piloting process</u>

- a. Analysis of the adequacy of the structure and VITLAB base procedures defined;
- b. Analysis of the limitations of using a Drupal System (core structure, e.g. compatibility of software components defined for the services provision) and other general specifications (issues, risks, solutions and lessons learned);
- c. Usability Analysis of the website by experts for achieving minimum's required for a so Complex Web Platform / Virtual Lab;
- d. Requirements analysis and monitoring activity promoted through the technical assistance procedures (CRM);
- e. Users Satisfaction Evaluation Methodology²:
 - Was programmed a simple pool in the VITLAB portal for evaluating VITLAB content "What do you think about VITLAB as an information portal and communication tool for open innovation?" RESULTS: 53% Excellent; 27% Good; 14% Satisfactory; only 5% answered not so satisfactory. N= 2747 votes.

²²²Once VITLAB is not a Service uniquely promoted by one entity, being dependent of the Open Intervention of e-Resater partners and VITLAB members to which exist a procedure for assignation of roles was neither possible nor considered of interest to promote an evaluation protocol (rigid and time-consuming procedures with a discouragement effect on participation). VITLAB roles: VITLAB Administrator; e-Resater partner; e-Resater Participant with basic roles; VITLAB contributor with customized roles being given privilege access to services and areas of the web in which their contribution were valued as of great importance or required by the e-Resater, as is the case of experts). Find specifications in the VITLAB Operative Dossier for more detailed information.





- Response rate to requests sent by visitors / participants from VITLAB.
 RESULTS: 100%, ensured by daily check activity by the VITLAB Operative Team³
- Involvement of Stakeholders in the consultation process (face-to-face meeting, mailing informing about VITLAB and the e-Resater Initiative). Over 1200 contacts in the INTRAS mailing List; and from them 83 shown interest to know more and provide objective or subjective feedback about internal needs, information and services in which are or might be interested, also brief insights about participation tendencies and the adequacy of the VITLAB approach.

VITLAB is an open virtual space to exchange dedicated of information, practices and experiences, promoting active and open collaboration. Therefore, the e-Resater Knowledge Network and the broad community have been invited to participate providing their contribution for raising awareness / giving visibility about initiatives in the field of e-health and e-inclusion (local, regional, national, at the SUDOE level or even beyond the SUDOE space).

VISIT VITLAB

Your experience counts! We encourage you to join this virtual community. Click here to access the membership form.

You have relevant information, initiatives and experience on e-Health to share? Join VITLAB Network and promote your work and best practices in this field!





f. The consultation process results (with partners and stakeholders) facilitated the development and updating of the following documents: Strategic Plan of the Network of Regional Innohubs, and the e-Resater Operative Dosier.

³ From 2014 to June of 2015 over 450 contacts to the VITLAB Administration Account admin.vitlab@intras.es were recorded: i. automated e-mails for validation of the registration; ii. e-mails asking for general information about VITLAB and services, e-Resater events as well as contact query requesting specific services (e.g. consultation with experts, opportunities for testing in real environments, digital catalog, explore opportunities for establishing synergies). The main doubts about VITLAB participation procedures were afterwards included in the VITLAB FAQ's (Frequently asked questions) and improvements were made in the VITLAB procedural documentation (e.g. Terms of Association, Privacy Policy) and new opportunities opened (e.g. request the creation of online questionnaires of satisfaction or interest in technology, giving simple and easily manageable opportunities to collect data and analyze the demand).





<u>Vitlab Activity</u>

VITLAB General Statistics (from 2014 to June 2015)

Total Visits:	319248
Total Visitants:	146714
Daily Visits	4732
Unique IP's:	44661
Total Page Visualization:	481391

Table 14: Vitlab General Statistics

VITLAB and e-Resater InnoHub recognized by the Enoll Network in the 8th wave (European Network of Living Labs)



Picture 22: Vitlab at the OpenLiving Lab Days

The ENOLL Network, a prestige network over the world, recognized in 2014 the excellence of the VITLAB methodology& Ecosystem as well as the work of the e-Resater InnoHub host by INTRAS, the only Living Lab with particular focus on health in the region of Castilla y León.

PHOTO: INTRAS consolidated the participation in the Enoll Network thanking the recognition awarded through the voice of the INTRAS General Manager (Mr. Pablo Gómez Conejo) in the OpenLivingLab Days 2014 held in Amsterdam.





Synergies across Networks, Projects and Initiatives

Collaborative alliances have been established to boost / intensify the Activity of the e-Resater Network (at a regional, national, SUDOE and European level) and the link with the e-Resater stakeholders, ensuring a delocalized planning and cooperation, supported by a consolidated methodological framework and an ecosystem, that is being at the same time reinforced with this strategic planning.

In this sense have been developed and planned research activities among other initiatives based on the collaboration and coordination with stakeholders, supported and facilitated by VITLAB.

Collaborative Synergies we established with Networks such as Enoll, AffeInnovnet and AgeingWell (see images of Tweets for a quick understanding about the mutual support promoted).



Picture 23: Vitlab tweets

Community Management Activities / Results:

VITLAB Campaigns	3
Communication Plan	1
VITLAB Terms of Association	1
VITLAB Private Policy	1
Associate Member Application Form (Entities / Professionals)	2
Ethics Code	1
Experts Statement (voluntary Participation)	1
E-Resater Operative Dossier	1
VITLAB Twiter (from April to June 2015) @VitlabOpenInnov Followers n= 40/ Tweets generated87	1
VITLAB infographic	1
Week content updates: events, blog, relevant news in the fields of	+ 300
intervention and Observatory	entries
Registrations Managed	68

Table 15: VITLAB Community Management Activities





SUSTAINABILITY:

- VITLAB resources & model will be capitalized through efforts for maintaining and seeking new synergies with projects, networks and other initiatives for a win-win collaboration. The most relevant services available are the access to an e-Health Solutions Catalogue, e-Resater Observatory, Offer and Demand Campaigns, TestBenchs, Consultancy Oriented e-Health Innovation Cycles, Public and Private Spaces Innovation.
- INTRAS is committed to continue hosting VITLAB. Symbolic Fees might be requested to members for maintenance services VITLAB resources will continue to be streamlined and promoted by its members and participants.
- Flexible General Business Model Planned, oriented to promote sustainable innovation as ultimate end, in the form of an umbrella for Independent Business Models associated with LL services promoted through VITLAB by Partners and Certified Members (InnoHub, Living Lab, FabLabs, User Centres, etc. with proved experience ensuring quality of services).
- VITLAB ensures minimum validation requirements and supervision. The management carried out by partners or members is at their own responsibility. The existence of an Expert Panel and facilitators (e-Resater partners) allow continue fostering VITLAB Model and objectives after the project end.

3.4.6.- GEMSA: Health and Social Coordination – Health Observatory

3.4.6.1.- GEMSA Descriptive Form (summary)

The complete version of this form can be checked on annex 6.5.

Name of the application: Health and Social coordination: Health Observatory

Promoters of the project: Asturias Regional Health Department and Municipalities from the Healthcare area II in Asturias. Management by FACC (Federación Asturiana de Concejos)

Public needs treated: Need for coordination of the services delivered to inhabitants at a rural area belonging to different providers (healthcare service, social services, and municipalities)

Added value:

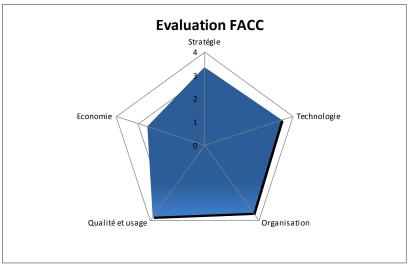
- Generalization of the local networks of health and social coordination by processes of participation and the use of new technologies
- To promote healthy habits and active ageing in the population
- The use of new technologies as a basic support tool.





The activities carried out in the context of this experience are:

- Establishment of local participation groups at each municipality in the healthcare area.
- Local assessment at each municipality in the area: map of health and social resources
- Integration of a direct link to the database of community activities "Asturias actua en Salud" in the Health Electronic Record OMI-AP.
- Enhancement of the forms and the databases "Asturias Actúa en Salud" and its interface through the web. Development and update of the apps for Android and iOS.



3.4.6.2.- Evaluation Chart

Picture 24: Gemsa Evaluation Chart FACC

The results from the GEMSA evaluation grid show a high performance in four out of the five axes examined. The economic analysis is the one that achieves a lower performance.

- The **quality and use impact indicator** has a high value that is based on the number of professionals involved, and on the assessment of their opinions through a questionnaire which can be checked in the next section.
- The **organizational impact** is high as the solution contributes to the integration of information from different types stakeholders belonging to different organizations and models. This model also increases the concern and the knowledge between the social and healthcare silos.
- The **technological innovation** has also a high score at the evaluation grid. The different platforms in which the solution has been presented (web browser, Android devices and iOS) and the integration with the OMI-AP application are the main technological characteristics to be taken into account.





- The **strategy evaluation** depicts also a high impact of the project contribution to solve a problem of public policy in the social and healthcare fields. The FACC approach integrates different levels of public governments working together (the healthcare regional organization and the municipalities at local level) and it also integrates professionals and institutions from different sectors. The value under this axe is not higher because this experience is neither a clinical trial nor a traditional specific healthcare intervention.
- The **economic indicator** has the lowest value within the FACC grid. This is due to the fact that no specific economic assessment has been made for this kind of application.

3.4.6.3.- Evaluation Methodology and Results

The figures that summarize the experience in Asturias are shown in the following list:

- Number of sessions : 32
- Number of healthcare centres which have participated at the pilot experience: 4 (Siero, Arriondas, Tineo, El Coto)
- Number of healthcare professionals who have participated at the introductory sessions: 93
- Number of professionals who have participated at the training sessions: 66
- Systems of local management in place: 2 (Tineo and Parres)
- Healthcare Areas with the OMI service up and running: 8 (Allande, Cangas de Narcea, Ibias, Degaña, Tineo, Siero, El Coto y Parres)
- Heatlhcare areas with the OMI service set up: 84 (100%)
- Resources identified in the database (7/7/2015): 243 active and 0 inactive
- Activities identified in the database (7/7/2015): 190 active and 96 inactive

The information included in this assessment was gathered from the 4 participating healthcare centres by means of an auto-administrated survey and of two face to face meetings with the Primary Care Teams. All the staff from the healthcare centres was invited to participate in these meetings.

- Sample: 60 professionals participated at the study (answer rate: 65%)
- Socio-demographic data
 - Average age: 47,9 years (standard deviation : 10.4 years). Minimum age: 25 years, maximum age: 62 years
 - Distribution by gender: 75 % female and 25% male
 - Time working for the SESPA (public healthcare service from Asturias): 10 % between 5 and 15 years, 30% between 16 and 25 years and 41,7% more than 25 years
 - Professional profile: 50 % GPs, 45% nurses, 3'3% social workers and 1'7% administrative staff





Results of the survey (0 = Totally disagree / Nothing - 10 = Totally agree/All)	
Questions related to the OBSA (Asturias Health Observatory)	
¿Do you know the "Asturias Health Observatory"?	5'07
¿Do you know the community activities "Asturias Actúa en Salud" (Asturias acts in health?	4'35
Questions related to the work performed	
Satisfaction with the kind of work	7'64
Quality of life in my job	6'88
Quantity of work	7.38
Assessment of the support from my managers /leaders	5'7
Assessment of the support from my workmates	7'5
Questions related to the family and community advice at the consultation	
Knowledge about information and data that allow the awareness of the health condition of the population of your area	5'83
Knowledge about the resources and community activities that exist at your health area	5'9
Approach to the healthcare problems from a bio-psycho-social structured model	3'68
Approach to the healthcare problems from a family intervention in a structured way	5'36
Use of a model of brief advice and health education in a structured way	6'51
Advice in the clinical practice of resources or community activities as therapeutic and non pharmacological actions	6'72
Training about bio-psycho-social approach	4'97
Training in health education and brief advice	5'22
Participation in interventions about Heath Education groups at the healthcare Centre	4'64
Questions related to the community advice outside the consultations	
Time available to perform community activities	3'83
Participation in the performance of community activities in other sectors of the community	3'9
Training in community methodology	3'97
·	

Table 16: Survey and results about the application "Health Observatory" in Asturias

A regression logistic analysis has been performed so as to study which variables might have a higher weight independently in the performance of the community activities (CAs). The variables identified in this analysis with more weight in the performance of CAs are the support from the leaders and the mates and the training received.

There is an affirmative relationship between the positive feedback from the superiors and the training in community methodology, that is to say, the better feedback and the more training the professionals receive, the more community activities they perform.

The feedback from the workmates is seen as a negative relationship, i.e. the more community's activities a professional performs, the worse impression he/she receives from his/her workmates. This fact could be related to some comments gathered from the healthcare professionals. The activities performed outside the healthcare center are seen sometimes as "personal projects" and they could also lead to overload of the other professionals agenda.





A second assessment meeting took place after the survey. The main goal of this meeting was to gather impressions in order to improve the project development. Some of the conclusions of these meetings are listed below:

- Main strengths
 - Improvement of the knowledge of the community resources
 - o Highlighting of the actions performed by institutions
 - To bring together agents working at different fields
 - Improvement of the therapeutic range to deal with the problems of patients
- Main weaknesses (and suggestions)
 - Technology Communications
 - The connection speed from OMI is through an external URL. The process for loading the map and the web browser activation use too many resources and expands too much the page load process
 - Waiting times for consultations
 - o Search, visualization and classification system
 - The search consultation is too generic
 - In some pdfs and summary forms some important information is lacking as the contact telephone number
 - The search engine does not perform correctly the free text in some fields
 - The number of categories and the characteristics of this classification could be improved.
 - It would be positive to have the opportunity to make an assessment of the activity / resource from the patient side and also from the professional point of view
 - The summary listing of community activities could have a "pop-up" with a brief description of the activity
 - A geographical filter by ZBS when there are many activities (by neighborhood, by location and by distance)
 - Development of professional skills
 - Lack of awareness about the importance/need of including this kind of advice in the routine practice
 - Lack of training in community methodology
 - Lack of training in models of bio-psico-social attention and about brief family intervention.
 - There is no process for social prescription and standardized record in OMI-AP
 - Work context
 - Lack of time for this kind of tasks in the consultation
 - Lack of support and leadership from the workmates and from the superiors





3.4.6.4.- Main conclusions

- The **degree of utilization** of the tools at the healthcare centres by the healthcare staff was low and more oriented to information consultations rather than to social prescription. The main reasons for this result could be the problems related to technology and the perception of low applicability at the clinic context.
- The **usage level** was high at healthcare centres with nursery staff receiving training (EIR) and also to identify assets in the associative and municipal scopes.
- A **better knowledge about the community resources** is a must but not the only condition to improve the problems management from a community approach.
- The **organization of agendas** is necessary to reduce the negative impact on the work load and the personal satisfaction.
- The **technology** is an enabler for the change management in the attention model, but it is not the only requisite. The main driver for this change is the involvement of the healthcare professionals, the patients and the citizenship.
- **Social prescription** is restricted to some conditions related to patients and their environment, and its use could not be considered as generic.
- In order to guarantee the sustainability of the model, it is necessary to facilitate and to promote the dynamization of community spaces at local level through structures that act in a coordinated way easing the conditions for a good local management.
- A set of **guidelines** for the improvement and the deployment of the service has been presented.

3.4.7.- GEMSA: "Dossier Medico-Sociale partagé"

3.4.7.1.- General Description based on the GEMSA Form

The complete version of this form can be checked on annex 6.6.

Name of the application: Shared Health and Social Record for Multi-Professional access Promoters of the project: Syndicat Mixte du Pays Couserans

Public needs treated: To lessen the number of breaks in the healthcare pathway of a patient and to facilitate the interchange of information

Added value: Identification of the information to be consulted by each stakeholder and the means to interchange this information.

This initiative has been developed in the context of the MAIA (Method of Action and of Integration of the actors involved in the Home Provision of care) to ease the maintenance of the autonomy at home.





The final goal is to provide, around the whole territory, a coordinated answer adapted to the users' needs by integrating the information from all the health, social and mixed providers from the territory.

The target public are the elderly people, the handicapped people and the people with chronic conditions under evaluation or unstable.

The workgroup relies on the existing workgroups of the MAIA.

3.4.7.2.- Evaluation Methodology and Results

The results from this initiative are:

- The development of a map with the exchanges of information
- The development of a "terms and conditions" document from a previous version
- The specification of profiles and permissions
- The listing of the reference resources

These documents are the base for the design of the new platform and have been transmitted to the manager of the regional information systems to include them in the regional specifications.

The project is in an initial phase and this is the reason why it is not possible to make a deeper analysis of the results.

4.- Conclusions

4.1.- e-RESATER results

The main achievements of e-RESATER concern qualitative issues such as the interchange of knowledge, the progress, the advantages and the new contacts. The main outcomes of e-RESATER can be summarized broadly into three achievements:

- **The initial RESATER** network has been broadened and enhanced with hundreds of participants at several events. The transnational, national, regional and local interactions that have resulted from the workshops, activities and the participation at the VITLAB are the evidence of the vivacity of this consolidated structure.
- Local Applications. Six different applications related to telemedicine have been adapted, developed, set up and evaluated, in practice, in rural areas in the context of e-RESATER. The most important outcome of these activities has been the sharing of the information within the e-RESATER network in order to allow the improvement and scaling up of these initiatives to other areas of these initiatives. One indicator of the quality of the work developed is for instance the





award "Excellent project in Aragón" at the "XIII Regional Congress about Quality in Health". Besides these activities, an open innovation methodology has been designed and initiated and there has been a deep cooperation with SMEs at local level in order to interchange knowledge and to reduce the gap between the supply and the demand sides.

VITLAB: <u>http://vitlab.resater.eu</u>. The VITLAB is the most tangible result of e-RESATER. It is not only an information portal and a communication tool for open innovation. It is also the place where the results of the local experimentations have been published and the reference site for the members of the knowledge network. Its inclusion in the ENOLL (European Network of Living Labs) is only an indicator of the usefulness of this tool.

4.2.- Experts advise

[Experts input]. The discussion related to the three groups of indicators: global, open innovation and "tailored" GEMSA brings up many important ideas.

The operability of all the projects within e-RESATER has been demonstrated, and must be continued and followed up. The convergence of the evaluation axis results proves the similarity of the expected impacts.

The capability of GEMSA to be adapted depending on the kind of projects allows at the same time a qualitative auto-evaluation for each project and transversal assessment through different initiatives.

GEMSA grid is a self-assessment tool which helps each local experiment to identify the future improvements. The impact is that all stakeholders had to work together in order to better fulfill the axis. In all the implementations, the economic axis has to be improved.

In spite of the fact that the time restrictions haven't allowed the knowledge of the inner operation of each project, it has been demonstrated that all the initiatives have surpassed a maturity threshold and a minimum set of requirements. The experimentations have a set of results and lessons learnt that could be presented to the authorities and/ or to other potential partners.

The performance under the axis **« Quality and Usage »** (GEMSA) must be highlighted with the global indicators (results and impact) and also the values under the "Technology" and "Organization" axes. It is certain that a deeper analysis of each internal auto-assessment would provide much more interesting information.

The **"Organization"** axis is quite important for telemedicine and shows the stakeholders implications and satisfaction. It is quite standard to evaluate that based on satisfaction





questionnaires as Aragon made. The clinical and economic impact have been evaluated by SALUD and presented in this report.

Without making a deep analysis about the dimensions "**Strategy**" and "Economy", the latter is by far the most difficult to be evaluated under the environment of innovation. This is the reason why it must not now become an obstacle.

In order to complete now the economic axis, e-Resater promoters have to formalize medico-economic protocols. It will be necessary to identify the most cost-effectiveness practices and choice the better business model.

To conclude, the projects in telemedicine are becoming an operational fact. They must be followed up and scaled up outside the rural territories that have triggered them. New challenges as changes in the practices and in the care models will be met in the very near future.





5.- Annex I. GEMSA Evaluation Forms

5.1.- Evaluation Form Aragón

Ficha descriptiva GI V1, Febrero 2015		
e- RESATER SOE3/P	1/F682,	
RESEAU DE SANTE ET TELEMEDECINE EN ZONES RURALES Programme INTERR	EG IV B SUDOE	
Ficha descriptiva de aplicaci	ón para evaluación s	según metodología GEMSA ¹
Proyecto e-RESATER. Socios SALU	ID (Servicio Aragonés de	Salud) y Fundación Desarrollo
Social (FDS)		
Ficha descriptiva de su siste	ma / dispositivo / ap	licación
Nombre del <u>sistema</u> /dispositivo/ap		
Sistema de Telemonitorización en re Nombre del promotor del proyecto		
Consorcio e-RESATER (socios Sector		DS)
Institución del promotor del proyec Región del promotor del proyecto: a		alud
		toma (dispositivo (aplicación protos de
¿Cuales son las necesidades en po tratar?	milica publica que su sis	tema/dispositivo/aplicación pretende
Telemonitorización de pacie		
 Acercamiento de atención sa Acercamiento de atención sa 		ncianos
Acercamiento de atención sa	anitaria a nucleos rurales	
¿Qué aporta su sistema/dispositivo		
		ercer sector (toma de constantes)
 El almacenamiento y proc constantes vitales. 	esamiento automatico d	le las pautas y de las medidas de
El sistema se basa en financiaciones	-	
	las: INTERREG IV B SUDOE as: SALUD	Importe: 75 %
	as: FDS/Gestores residenci	Importe: ias Importe:
Actores implicados		
¿Quien es el usuario final de la aplica	ación?:	
☑ el paciente		cado: Durante todo el periodo
 ✓ el auxliliar/gerocultor ✓ el equipo de salud AP 		cado: Durante todo el periodo cado: Durante todo el periodo
☑ el profesional sanitario de la resid		cado: Durante todo el periodo
¿Cuales son los profesionales de la s	alud concernidos?:	
dequipo de AP (enfermero, médico	o) -> Personal impli	icado: Durante todo el periodo
🗹 equipo sanitario residencia	-> Personal impli	icado: Durante todo el periodo
¿Cuales son los profesionales medico	o-sociales concernidos?:	
☑ auxiliar/gerocultor	-> Personal impli	icado: Durante todo el periodo
El sistema/dispositivo/aplicación es:		
☑ regional		
interregional		
 ✓ regional □ interregional □ nacional □ internacional 		

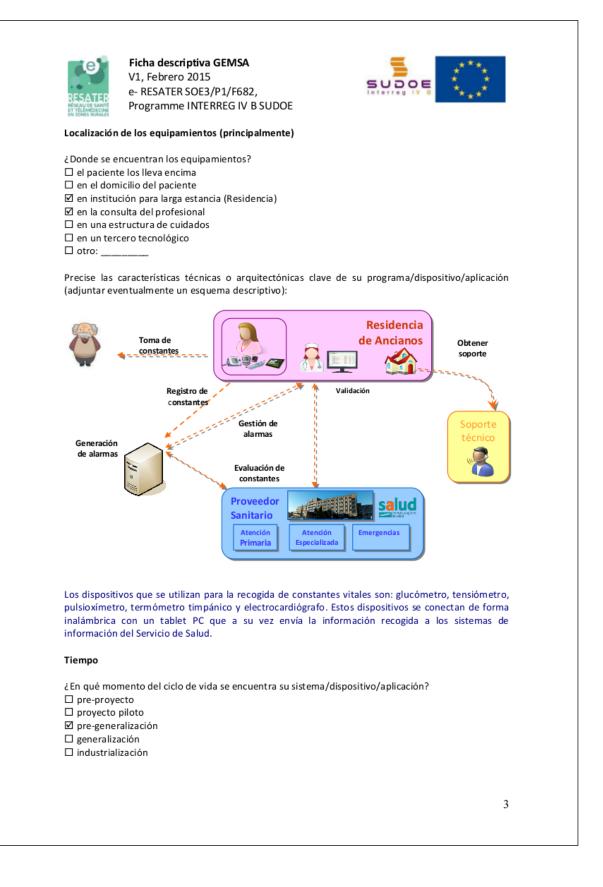




Sector Sanita - -	entro de referencia?: rio Barbastro / Hospital de Barbastro Centro de salud de Binéfar	
	Centro de salud de Tamarite (Consultor Centro de salud de Graus (Consultorio d	
3 (Centro de Número de c -	entros referencia: salud de Binéfar, Consultorio de Albelda, C entros periféricos o domicilios concernidos Residencia Comarcal de Binéfar Residencia La Sabina de Albelda Residencia "Valle de Ésera" de Campo	
Perfil de acci	ón / riesgo	
	ia ención (?)	iones posibles)
¿Cual es la es	pecialidad concernida? Medicina de famili	ia / Pacientes crónicos
 □ toda la po □ los jóvene □ los adultos ☑ las person □ las person ☑ las person ☑ las person 	s/niños s as mayores as con discapacidad nas que padecen una enfermedad crónic	a (citarla: alguna entre historia de DM, ACV,
 interno en entre esta red ciudad HAD, hosp práctica ar 	italización a domicilio	
Número de p	acientes concernidos (al año/al mes/sema · 50 (Albelda) + 80 (Binéfar)	inalmente):











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RESATER RESATER RESAUDE SANTE EN ROMES RUMALES	Ficha descriptiva GEMSA V1, Febrero 2015 e- RESATER SOE3/P1/F682, Programme INTERREG IV B SUDOE	
	stado de madurez de su sistema/dispositivo/aplicación?:	
☑ fase de ap □ en fase ev		
	e prototipado	
□ investigac		
El sistema/di	ispositivo/aplicación funciona en:	
🗹 sincronía		
□ asincronía	3	
	ispositivo/aplicación está destinado a una actividad:	
☑ planificad		
□ de urgenc	18	
	le uso del sistema:	
□ diaria	Contra contra)	
mensual	Según pauta)	
anual		
El sistema/di ☑ reproduct	ispositivo/aplicación es:	
puntual	ible	
	de la aplicación	
	ispositivo/aplicación tiene como finalidad (varias respuestas posibles):	
Øel bienesta Ø la preveno		
	ento de las enfermedades crónicas	
	iento de las enfermedades agudas	
	los paliativos	
□ otros:		
Fecha del co	mienzo del sistema/dispositivo/aplicación: 1 de Abril de 2014	
Fecha de fin	del sistema/dispositivo/aplicación: 30 de Marzo de 2015	
¹ <u>https://rech</u>	erche.telecom-bretagne.eu/gemsa	

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5.2.- Evaluation Form HAD Pays Couserans

	Fiche descriptiv /1, Février 2019 Programme INT	5	DE	
Fiche descrij la méthodol			ositif/applicatio	on pour l'evaluation ave
	-		du Pays Couseran	s
GEMSA: Fich	he descriptiv	e de son systèr	me/dispositif/o	application
Nom du systèn A Domicile (HAI		plication : Dossier	dématérialisé aup	rès du patient en Hospitalisation
Nom du porteu	r : Syndicat Mixt	te du Pays Cousera	ns	
Institution du p	orteur : Fonctio	n publique territori	iale	
Région du porte	eur : Couserans,	Ariège, Midi-Pyré	nées, France	
Quelles sont les	s besoins de pol		sés par votre systè	me/dispositif/application ?
Prise en charge santé rural et m		tients fragilisés lor	s d'un maintien à c	domicile (HAD) dans un bassin de
santé rural et m	iontagneux.	Ū III		domicile (HAD) dans un bassin de r rapport à la problématique
santé rural et m Quel est l'app précédente ?	oontagneux.	système/disposit	if/application par	
santé rural et m Quel est l'app précédente ? Amélioration du	nontagneux. port de votre u suivi et de la co	système/disposit	if/application par	r rapport à la problématique
santé rural et m Quel est l'app précédente ? Amélioration du Le système/disp ☑ Instances eu	nontagneux. port de votre u suivi et de la co positif/applicati ropéennes	système/disposit oordination des dif ion est-il basé sur d lesquelles : IN	i f/application pa i	r rapport à la problématique ts au domicile du patient. obtenus auprès : Montant : 75%
santé rural et m Quel est l'app précédente ? Amélioration du Le système/disp ☑ Instances eur □ Instances nat	nontagneux. port de votre u suivi et de la co positif/applicati ropéennes tionales	système/disposit oordination des dif ion est-il basé sur d lesquelles : IN lesquelles :	if/application par férents intervenan des financements d	r rapport à la problématique ts au domicile du patient. obtenus auprès : Montant : 75% Montant :
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RESATER RÉSEAU DE SANTÉ ET TELÉRÉDECINE EN ZONES RUBALES	Fiche descriptive GEMS V1, Février 2015 e- RESATER SOE3/P1/F6 Programme INTERREG IN	
Quels sont l	es professionnels de santé co	oncernés (plusieurs réponses possibles):
🗆 médecin	hospitalier	-> Effectifs concernés :en T0 :Tfin :
🗹 médecin	ibéral	-> Effectifs concernés :en T0 :Tfin :
☑ infirmier(ère)	-> Effectifs concernés :en T0 :Tfin :
🗹 auxiliaire		-> Effectifs concernés :en T0 :Tfin :
□ sage fem		-> Effectifs concernés :en TO :Tfin :
), Infirmières Coordinatrices HAD, Conseillère en Economie
Sociale et Fa	miliale (CESF) HAD	-> Effectifs concernés :en T0 :Tfin :
Quels sont l	es professionnels médico-so	ciaux concernés (plusieurs réponses possibles):
☑ assistance	e de vie	-> Effectifs concernés :en T0 :Tfin :
🗆 garde ma	lade	-> Effectifs concernés :en T0 :Tfin :
🗹 kinésithé		-> Effectifs concernés :en T0 :Tfin :
☑ aide-soig		-> Effectifs concernés :en T0 :
aide-mén	agère	-> Effectifs concernés :en T0 :Tfin :
□ pédicure		-> Effectifs concernés :en T0 :
□ autres:		-> Effectifs concernés :en T0 :Tfin :
	nal	
Nombre de Nombre de Séjours : 27 <u>Profil d'actio</u>	onal entre de référence: ECHOSAN centres référents: 1 centres périphériques ou do jours) on / risque	omiciles concernés: 5 patients par mois (Durée Moyenne de
□ Internation Qui est le ce Nombre de Séjours : 27 Profil d'action Le système/ ☑ La consul	onal entre de référence: ECHOSAN centres référents: 1 centres périphériques ou do jours) on / risque dispositif/application concent tation / le diagnostic	
□ Internation Qui est le ce Nombre de Séjours : 27 Profil d'action Le système/ ☑ La consul ☑ La surveil	onal entre de référence: ECHOSAN centres référents: 1 centres périphériques ou do jours) on / risque dispositif/application concer tation / le diagnostic lance	omiciles concernés: 5 patients par mois (Durée Moyenne de
□ Internation Qui est le ce Nombre de Séjours : 27 Profil d'action Le système/ ☑ La consul ☑ La surveil □ L'assistan	onal entre de référence: ECHOSAN centres référents: 1 centres périphériques ou do jours) on / risque dispositif/application concer tation / le diagnostic lance ce	omiciles concernés: 5 patients par mois (Durée Moyenne de
□ Internation Qui est le ce Nombre de Séjours : 27 Profil d'action Le système/ ☑ La consul ☑ La surveil □ L'assistan □ Une inter	onal entre de référence: ECHOSAN centres référents: 1 centres périphériques ou do jours) on / risque dispositif/application concer tation / le diagnostic lance ce vention (?)	omiciles concernés: 5 patients par mois (Durée Moyenne de
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□ Internation Qui est le ce Nombre de Séjours : 27 Profil d'action E système/ ☑ La consul ☑ La surveil □ L'assistan □ Une inter ☑ Autre: la o	entre de référence: ECHOSAN centres référents: 1 centres périphériques ou do jours) on / risque dispositif/application concer tation / le diagnostic lance ce vention (?) coordination	omiciles concernés: 5 patients par mois (Durée Moyenne de
 □ Internation Qui est le ce Nombre de Séjours : 27 Profil d'action E système/ ☑ La consul ☑ La consul ☑ La surveil □ L'assistan □ Une inter ☑ Autre: la consul ☑ Quelle est la □ Toute la p □ Les jeune 	enal entre de référence: ECHOSAN centres référents: 1 centres périphériques ou do jours) on / risque dispositif/application concer tation / le diagnostic lance ce vention (?) coordination a spécialité concernée ? Méd a population concernée (plus population s / enfants	omiciles concernés: 5 patients par mois (Durée Moyenne de rne-t-il (plusieurs options possibles) : lecine générale, Maladies chroniques
□ Internation Qui est le ce Nombre de Séjours : 27 Profil d'action U La consul U La surveil U La surveil U La surveil U L'assistan U Une inter Quelle est la Quelle est la U Toute la p Les jeune Les adulto	enal entre de référence: ECHOSAN centres référents: 1 centres périphériques ou do jours) on / risque dispositif/application concer tation / le diagnostic lance ce vention (?) coordination a spécialité concernée ? Méd a population concernée (plus population s / enfants es	omiciles concernés: 5 patients par mois (Durée Moyenne de rne-t-il (plusieurs options possibles) : lecine générale, Maladies chroniques
 ☐ Internation Qui est le ce Nombre de Nombre de Séjours : 27 Profil d'action ☑ La consul ☑ La surveil □ L'assistan □ Une inter ☑ Autre: la la Quelle est la □ Toute la p □ Les jeune □ Les jeune □ Les aulto □ Les perso 	enal entre de référence: ECHOSAN centres référents: 1 centres périphériques ou do jours) on / risque dispositif/application concer tation / le diagnostic lance ce vention (?) coordination a spécialité concernée ? Méd a population concernée (plus population s / enfants es nnes âgées	omiciles concernés: 5 patients par mois (Durée Moyenne de rne-t-il (plusieurs options possibles) : lecine générale, Maladies chroniques
 ☐ Internation Qui est le ce Nombre de Nombre de Séjours : 27 Profil d'action ☑ La surveil ☑ La surveil □ L'assistan □ Une inter ☑ Autre: la a Quelle est la □ Toute la p □ Les jeune □ Les jeune □ Les perso □ Les perso 	enal entre de référence: ECHOSAN centres référents: 1 centres périphériques ou do jours) on / risque dispositif/application concer tation / le diagnostic lance ce vention (?) coordination a spécialité concernée ? Méd a population concernée (plus population s / enfants as nnes âgées nnes handicapées	omiciles concernés: 5 patients par mois (Durée Moyenne de rne-t-il (plusieurs options possibles) : lecine générale, Maladies chroniques sieurs réponses possibles)? :
 ☐ Internation Qui est le ce Nombre de Nombre de Séjours : 27 Profil d'action La consul ☑ La surveil ☐ L'assistan ☐ Une inter ☑ Autre: la consul Quelle est la ☐ Toute la p ☐ Les jeune ☐ Les jeune ☐ Les perso ☐ Les perso ☐ les person 	enal entre de référence: ECHOSAN centres référents: 1 centres périphériques ou do jours) on / risque dispositif/application concer tation / le diagnostic lance ce vention (?) coordination a spécialité concernée ? Méd a population concernée (plus opulation s / enfants es nnes âgées nnes handicapées mes atteintes d'une maladie	omiciles concernés: 5 patients par mois (Durée Moyenne de rne-t-il (plusieurs options possibles) : lecine générale, Maladies chroniques sieurs réponses possibles)? :

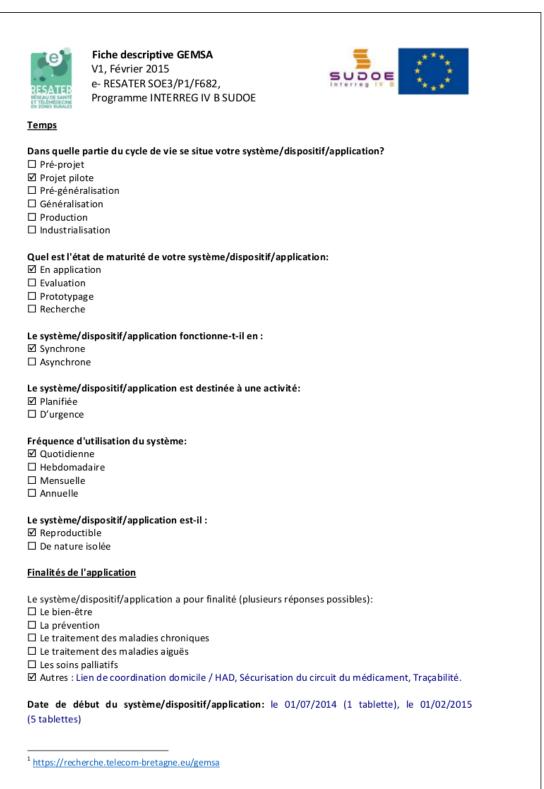












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5.3.- Evaluation Form EHPAD Pays Couserans

RESATER RESEAUDE SANTE ET TELEMOSECINE	Fiche descriptiv V1, Février 201 e- RESATER SOB Programme INT	5	DE	SUDO	,E ****
		système/dispo	sitif/applica	tion pour l'	evaluation ave
	dologie GEMSA	l' e Syndicat Mixte d	lu Pave Courser	200	
-					
GEMSA: F	iche descriptiv	e de son systèr	ne/dispositij	f/applicatio	n
		pplication: Télé su sement d'Hébergen			-
Institution d	u porteur : Fonctio	e du Pays Couseran n publique territori Ariège, Midi Pyrén	ale		
Prise en cha	-	litique publique vis atients fragilisés en			
précédente	?				a la problématiqu
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	V1, Février 2015	
RESATER	e- RESATER SOE3/P1/F682,	
RÉSEAU DE SANTÉ ET TÉLÉMÉDECINE EN ZONES RURALES	Programme INTERREG IV B	SUDOE
		ux concernés (plusieurs réponses possibles):
assistance		-> Effectifs concernés :en T0 :Tfin :
□ garde ma		-> Effectifs concernés :en T0 :Tfin :
□ kinésithé		-> Effectifs concernés :en T0 :Tfin :
☑ aide-soig		-> Effectifs concernés :en T0 :
aide-mén	agère	-> Effectifs concernés :en T0 :Tfin :
□ pédicure		-> Effectifs concernés :en T0 :Tfin :
autres:		-> Effectifs concernés :en T0 :Tfin :
	dispositif/application est-il :	
☑ Régional	, ,	
Interrégie	onal	
□ National		
Internation	onal	
Qui est le	centre de référence : EHPAD	(Etablissement d'Hébergement pour Personnes Agées
Dépendante	s) / CHAC (Centre Hospitalier Ar	iège Couserans)
Nombre de	centres référents: 2	
		riles concernés: A
	centres référents: 2 centres périphériques ou domic	ciles concernés: 0
Nombre de	centres périphériques ou domic	ciles concernés: 0
Nombre de <u>Profil d'actio</u>	centres périphériques ou domic on / risque	ciles concernés: 0 e-t-il (plusieurs options possibles) :
Nombre de <u>Profil d'actions</u> Le système/	centres périphériques ou domic on / risque	
Nombre de <u>Profil d'action</u> Le système/ La consul	centres périphériques ou domic on / risque dispositif/application concerne tation / le diagnostic	
Nombre de <u>Profil d'action</u> Le système/ La consul La surveil	centres périphériques ou domic on / risque dispositif/application concerne tation / le diagnostic lance	
Nombre de Profil d'action Le système/ La consul La surveil L'assistan Une inter	centres périphériques ou domic on / risque dispositif/application concerne tation / le diagnostic lance ce vention (?)	
Nombre de Profil d'action Le système/ La consul La surveil L'assistan Une inter	centres périphériques ou domic on / risque dispositif/application concerne tation / le diagnostic lance ce	
Nombre de Profil d'action Le système/ La consul La surveil L'assistan Une inter Vautre : m	centres périphériques ou domic on / risque dispositif/application concerne tation / le diagnostic lance ce vention (?) onitorisation	
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Nombre de Profil d'acti Le système/ La consul La surveil L'assistan Une inter Autre : m Quelle est la Quelle est la Les jeune Les adulte	centres périphériques ou domic on / risque dispositif/application concerne tation / le diagnostic lance ce vention (?) onitorisation a spécialité concernée ? Médeci population concernée (plusieu population s / enfants	e-t-il (plusieurs options possibles) : ne Générale, Cardiologie, Maladies chroniques
Nombre de Profil d'acti Le système/ La consul La surveil L'assistan Une inter Autre : m Quelle est la Cuelle est la Les jeune Les adult Les perso Les perso	centres périphériques ou domic on / risque dispositif/application concerne tation / le diagnostic lance ce vention (?) onitorisation a spécialité concernée ? Médeci a population concernée (plusieu population s / enfants as nnes âgées nnes handicapées	e-t-il (plusieurs options possibles) : ne Générale, Cardiologie, Maladies chroniques urs réponses possibles)? :
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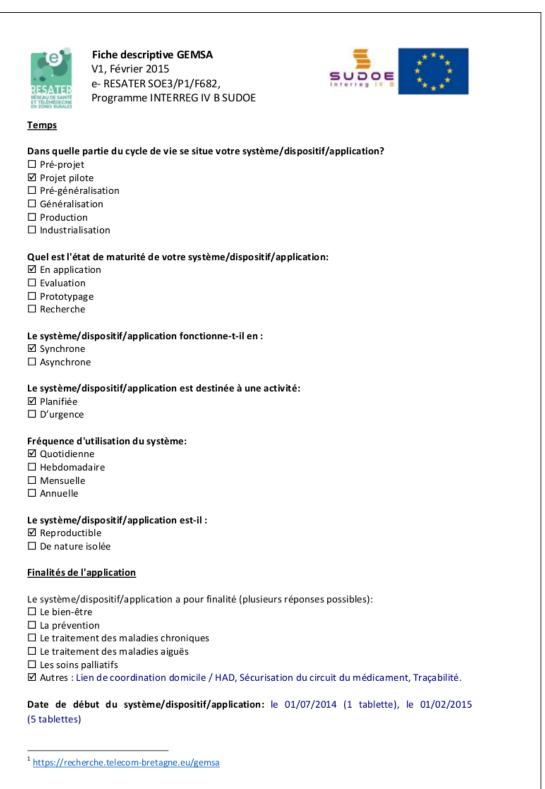












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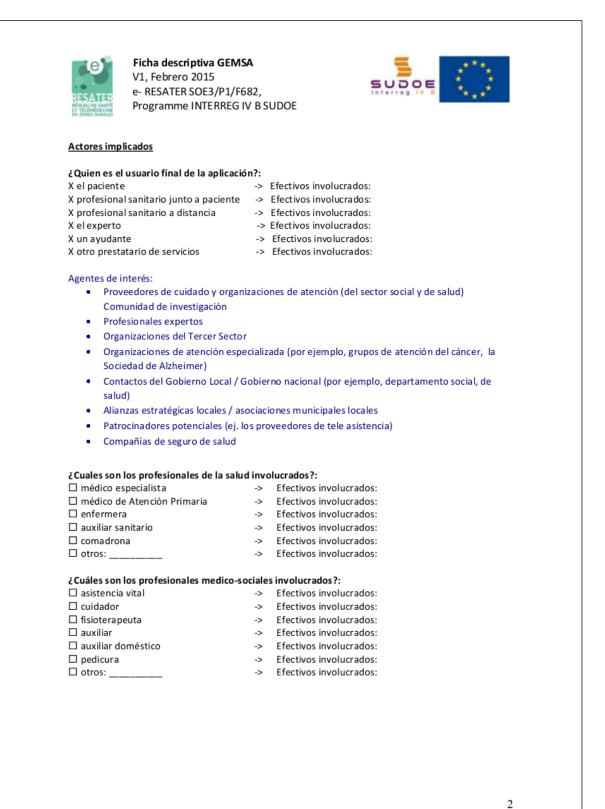
















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	V1, Febrero 2015	
RESATER RÉSEAU DE SANTE ET TELEMÉDECINE EN ZONES RURALES	e- RESATER SOE3/P1/F682, Programme INTERREG IV B SUDOE	
	lispositivo/aplicación es:	
□ regional		
X interregior	nal	
	nal (la innovación abierta no pretende crear barreras, y por ello esta plataforma se	
	ciendo uso de un idioma común que facilita el intercambio y la cooperación a un nivel	
¿Cual es el	centro de referencia?: Fundación INTRAS ofrece el servicio de webmaster/atención al	
	uánto a los servicios ofrecidos en la web y por la Red de Conocimiento e-Resater,	
contando pa	ra ello con la colaboración de los socios e-Resater. INTRAS, desde el centro de contacto,	
-	solicitudes realizadas poniendo en contacto los interesados/usuarios de los servicios	
VITLAB con I	as entidades y los expertos de la Red eResater.	
Número de	centros referencia:	
Número de (centros periféricos o domicilios concernidos:	
<u>Perfil de acc</u>	ión / riesgo	
El sistema/ d	dispositivo/aplicación concierne (varias opciones posibles):	
El sistema/ o □ la consult	dispositivo/aplicación concierne (varias opciones posibles): a / el diagnostico	
El sistema/ d □ la consult □ la vigilanc	dispositivo/aplicación concierne (varias opciones posibles): a / el diagnostico ia	
El sistema/ d □ la consult □ la vigilanc □ la asisten	dispositivo/aplicación concierne (varias opciones posibles): a / el diagnostico ia cia	
El sistema/ d la consult la vigilanc la asistend una inter	dispositivo/aplicación concierne (varias opciones posibles): a / el diagnostico ia cia	
El sistema/ (la consult la vigilanc la asisten una inten X otro: Un e	dispositivo/aplicación concierne (varias opciones posibles): a / el diagnostico ia cia /ención (?) spacio de Vigilancia tecnológica, observación de oportunidades en e-salud; colaboración	
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El sistema/ d la consult la vigilanc la asistene una intene X otro: Un e e innovación ¿Cual es la interregiona marcos de r	dispositivo/aplicación concierne (varias opciones posibles): a / el diagnostico ia cia vención (?) spacio de Vigilancia tecnológica, observación de oportunidades en e-salud; colaboración a abierta especialidad concernida? Estimular y ofrecer un entorno virtual para la cooperación I ante la definición e implementación de soluciones e-salud; así como estimular nuevos eferencia regionales que estimulen la IDi y la consciencia del potencial de las TIC en la	
El sistema/ d la consult la vigilanc la asistene una intene X otro: Un e e innovación ¿Cual es la interregiona marcos de r	dispositivo/aplicación concierne (varias opciones posibles): a / el diagnostico ia cia vención (?) spacio de Vigilancia tecnológica, observación de oportunidades en e-salud; colaboración a abierta especialidad concernida? Estimular y ofrecer un entorno virtual para la cooperación I ante la definición e implementación de soluciones e-salud; así como estimular nuevos	
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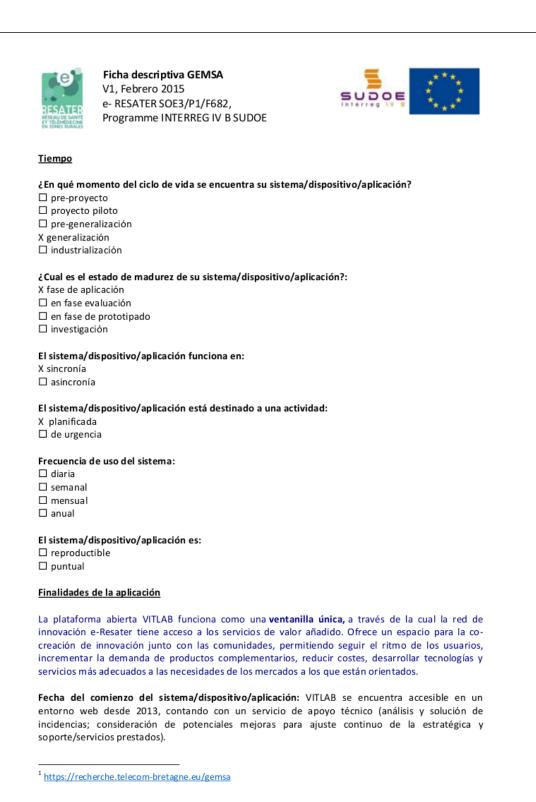












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5.5.- Evaluation Form Health Observatory

e	Ficha descriptiva V1, Febrero 201	5	SU	DOE ***
RESATER RÉSEAU DE SANTÉ ET TÉLEMÉDECINE EN ZONES RUBALES	e- RESATER SOE	ERREG IV B SUDOE	Interre	* ★ *
Ficha des	riptiva de aplic	ación para evaluació	ón según meto	odología GEMSA ¹
Proyecto e-	RESATER. Socio FA	CC (Federación Asturian	a de Concejos)	
Ficha des	riptiva de su si	stema / dispositivo /	' aplicación	
Coordinació Nombre del Federación Institución d	promotor del proye Asturiana de Conc el promotor del pro	Observatorio de la Saluc	idad del Principa cipado de Asturia	as
¿Cuales son	las necesidades e	n política pública que su	sistema/disposit	tivo/aplicación pretend
tratar?				
en el territ locales, ciud	orio y con la par ladanía, asociacio	para conseguir una óptir ticipación de todos los nes, profesionales)	entes implicado	os (sanitarios, técnico
Coordinació en el territ locales, ciud ¿Qué aporta Una herran lado, los m OMI-AP a la físico o acti ciudadanía	orio y con la par ladanía, asociacion su sistema/disposi nienta para la coo édicos y demás p s actividades com vidades de ocio a tendrá acceso a la entidades que a	ticipación de todos los	entes implicado r la problemática e el ámbito local imaria tienen ao para recomend o lado, con la ap ción de la salud	precedente? I y el sanitarios, técnico cceso directo desde e lar o prescribir ejercicio plicación móvil, toda la puestas en marcha po
Coordinació en el territ locales, ciud ¿Qué aporta Una herran lado, los m OMI-AP a la físico o acti ciudadanía las distinta: en general. El sistema se	orio y con la par ladanía, asociacion su sistema/disposi nienta para la coo édicos y demás p s actividades com vidades de ocio a tendrá acceso a la entidades que a). basa en financiacio	ticipación de todos los nes, profesionales) tivo/aplicación para tratan ordinación efectiva entre personal de atención pr unitarias de su territorio o sus pacientes. Por otro as actividades de promo ctúan en el territorio (a ones obtenidas de:	entes implicado r la problemática e el ámbito loca imaria tienen ao para recomend o lado, con la ap ción de la salud yuntamiento, as	precedente? I y el sanitarios, técnico cceso directo desde e lar o prescribir ejercicio olicación móvil, toda la puestas en marcha po sociaciones, ciudadaní
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Actores implicados 2 Quien es el usuario final de la aplicación?: el paciente >> Efectivos involucrados: personal sanitario de Atención Primaria + población con patologías crónicas (cardiovascular, colesterol, depresión) el experto >> Efectivos involucrados: un ayudante >> Efectivos involucrados: X otro prestatario de servicios - >> Efectivos involucrados: (técnicos municipales, asociaciones, ciudadania, profesionales) 2 Cuales son los profesionales de la salud involucrados? médico de Atención Primaria >> Efectivos involucrados: X awiliar sanitario >> Efectivos involucrados: X auxiliar sanitario >> Efectivos involucrados: A suxiliar sanitario >> Efectivos involucrados: Cuáles son los profesionales medico-sociales involucrados: Centro de Salud Tineo X auxiliar sanitario >> Efectivos involucrados: cuidador >> Efectivos involucrados: cuidador >> Efectivos involucrados: auxiliar asitario >> Efectivos involucrados: auxiliar doméstico >> Efectivos involucrados: auxiliar doméstico >> Efectivos involucrados: auxiliar asitario >> Efectivos involucrados:	¿Quien es el usuario final de la aplicación?: el paciente > Efectivos involucrados: profesional sanitario junto a paciente > Efectivos involucrados: profesional sanitario a distancia > Efectivos involucrados: el experto > Efectivos involucrados: un ayudante > Efectivos involucrados: (ténicos municipales, asociaciones, ciudadanía, profesionales) ¿Cuales son los profesionales de la salud involucrados?: médico especialista > Efectivos involucrados: X médico de Atención Primaria > Efectivos involucrados: Centro de Salud Tineo X enfermera > Efectivos involucrados: Centro de Salud Tineo a comadrona > Efectivos involucrados: cuidador > Efectivos involucrados: cuidador > Efectivos involucrados: auxiliar doméstico > Efectivos involucrados: auxiliar doméstico ese: X regional interregional <	Ficha descriptiva G V1, Febrero 2015 e- RESATER SOE3/P Programme INTERP	P1/F682,
el paciente -> Efectivos involucrados: X profesional sanitario junto a paciente >> Efectivos involucrados: Primaria + población con patologias cóncicas (cardiovascular, colesterol, depresión) >> Efectivos involucrados: un ayudante -> Efectivos involucrados: x otro prestatario de servicios - >> Efectivos involucrados: (técnicos municipales, asociaciones, ciudadanía, profesionales) ¿Cuales son los profesionales de la salud involucrados?: médico especialista -> Efectivos involucrados: X aviliar sanitario -> Efectivos involucrados: X aviliar sanitario -> Efectivos involucrados: X aviliar sanitario -> Efectivos involucrados: Cales son los profesionales medico-sociales involucrados: Centro de Salud Tineo X aviliar sanitario -> Efectivos involucrados: a conadrona -> Efectivos involucrados: cuidador -> Efectivos involucrados: cuidador -> Efectivos involucrados: auxiliar -> Efectivos involucrados	el paciente -> Efectivos involucrados: X profesional sanitario junto a paciente >> Efectivos involucrados: Primaria + población con patologías conciacs (cardiovascular, colesterol, depresión) >> Efectivos involucrados: un ayudante -> Efectivos involucrados: X otro prestatario de servicios - >> Efectivos involucrados: (técnicos municipales, asociaciones, ciudadanía, profesionales) >> Efectivos involucrados: Zuales son los profesionales de la salud involucrados?: >> Efectivos involucrados: M médico especialista -> Efectivos involucrados: Centro de Salud Tineo X auxiliar sanitario >> Efectivos involucrados: Centro de Salud Tineo X auxiliar sanitario >> Efectivos involucrados: A auxiliar sanitario >> Efectivos involucrados: Cales son los profesionales medico-sociales involucrados: >> Efectivos involucrados: Comadrona ->> Efectivos involucrados: Cuidador ->>> Efectivos involucrados: cuidador ->>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	Actores implicados	
X profesional sanitario junto a paciente > Efectivos involucrados: personal sanitario de Atención Primaria + población con patologías crónicas (cardiovascular, colesterol, depresión) > Efectivos involucrados: un ayudante -> Efectivos involucrados: de esperto -> Efectivos involucrados: (técnicos municipales, asociaciones, ciudadanía, profesionales) // Cuales son los profesionales de la salud involucrados? médico especialista -> Efectivos involucrados: Centro de Salud Tineo X médico de Atención Primaria -> Efectivos involucrados: Centro de Salud Tineo X aviliar sanitario -> Efectivos involucrados: comadrona -> Efectivos involucrados: cuidador -> Efectivos involucrados: cuidador -> Efectivos involucrados: auxiliar doméstico -> Efectivos involucrados: auxiliar doméstico -> Efectivos involucrados: auxiliar doméstico -> Efectivos involucrados: pedicura -> Efectivos involucrados: auxiliar doméstico -> Efectivos involucrados: <th>X profesional sanitario junto a paciente > Efectivos involucrados: personal sanitario de Atención Primaria + población con patologías crónicas (cardiovascular, colesterol, depresión) > Efectivos involucrados: I or profesional sanitario a distancia > Efectivos involucrados: I un ayudante >> Efectivos involucrados: I un ayudante >> Efectivos involucrados: (técnicos municipales, asociaciones, ciudadanía, profesionales) Zuales son los profesionales de la salud involucrados? I médico especialista > Efectivos involucrados: Centro de Salud Tineo X médico de Atención Primaria > Efectivos involucrados: Centro de Salud Tineo X aniliar sanitario > Efectivos involucrados: Centro de Salud Tineo X availiar sanitario > Efectivos involucrados: comadrona > Efectivos involucrados: comadrona > Efectivos involucrados: cuidador > Efectivos involucrados: auxiliar doméstico > Efectivos involucrados: auxiliar doméstico > Efectivos involucrados: y regional > Efectivos involucrados: auxiliar doméstico > Efectivos involucrados: gadiadania > Efectivos involucrados: X regional > Efectivos involucrados</th> <th>¿Quien es el usuario final de la apl</th> <th>icación?:</th>	X profesional sanitario junto a paciente > Efectivos involucrados: personal sanitario de Atención Primaria + población con patologías crónicas (cardiovascular, colesterol, depresión) > Efectivos involucrados: I or profesional sanitario a distancia > Efectivos involucrados: I un ayudante >> Efectivos involucrados: I un ayudante >> Efectivos involucrados: (técnicos municipales, asociaciones, ciudadanía, profesionales) Zuales son los profesionales de la salud involucrados? I médico especialista > Efectivos involucrados: Centro de Salud Tineo X médico de Atención Primaria > Efectivos involucrados: Centro de Salud Tineo X aniliar sanitario > Efectivos involucrados: Centro de Salud Tineo X availiar sanitario > Efectivos involucrados: comadrona > Efectivos involucrados: comadrona > Efectivos involucrados: cuidador > Efectivos involucrados: auxiliar doméstico > Efectivos involucrados: auxiliar doméstico > Efectivos involucrados: y regional > Efectivos involucrados: auxiliar doméstico > Efectivos involucrados: gadiadania > Efectivos involucrados: X regional > Efectivos involucrados	¿Quien es el usuario final de la apl	icación?:
X otro prestatario de servicios - > Efectivos involucrados: (técnicos municipales, asociaciones, ciudadanía, profesionales) ¿Cuales son los profesionales de la salud involucrados?: médico de Atención Primaria > Efectivos involucrados: Centro de Salud Tineo X auxiliar sanitario > Efectivos involucrados: Centro de Salud Tineo X auxiliar sanitario > Efectivos involucrados: Centro de Salud Tineo Comadrona > Efectivos involucrados: comadrona > Efectivos involucrados: cuidador > Efectivos involucrados: asistencia vital > Efectivos involucrados: cuidador > Efectivos involucrados: auxiliar > Efectivos involucrados: auxiliar doméstico > Efectivos involucrados: auxiliar doméstico > Efectivos involucrados: x otros: > Efectivos involucrados: x otros: > Efectivos involucrados: x regional interregional	X otro prestatario de servicios - > Efectivos involucrados: (técnicos municipales, asociaciones, ciudadanía, profesionales) 2Cuales son los profesionales de la salud involucrados?: médico especialista -> Efectivos involucrados: Centro de Salud Tineo X médico de Atención Primaria -> Efectivos involucrados: Centro de Salud Tineo X auxiliar sanitario -> Efectivos involucrados: Centro de Salud Tineo Comadrona -> Efectivos involucrados: otros: -> Efectivos involucrados: cuidador -> Efectivos involucrados: cuidador -> Efectivos involucrados: cuidador -> Efectivos involucrados: auxiliar doméstico -> Efectivos involucrados: x otros: -> Efectivos involucrados: x otros: -> Efectivos involucrados: cuidadaría -> Efectivos involucrados: El sistema/dispositivo/aplicación es: -> Efectivos involucrados: X regional -> Efectivos involucrados: técnicos locales, asociaciones, ciudadanía El sistema/dispositivo/aplicación es	X profesional sanitario junto a pacie Primaria + población con patologías profesional sanitario a distancia el experto	ente -> Efectivos involucrados: personal sanitario de Atención s crónicas (cardiovascular, colesterol, depresión) -> Efectivos involucrados: -> Efectivos involucrados:
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médico especialista -> Efectivos involucrados: X médico de Atención Primaria -> Efectivos involucrados: Centro de Salud Tineo X enfermera -> Efectivos involucrados: Centro de Salud Tineo X auxiliar sanitario -> Efectivos involucrados: Centro de Salud Tineo Comadrona -> Efectivos involucrados: cornadrona -> Efectivos involucrados: cornadron -> Efectivos involucrados: couldador -> Efectivos involucrados: asistencia vital -> Efectivos involucrados: auxiliar -> Efectivos involucrados: auxiliar doméstico -> Efectivos involucrados: auxiliar doméstico -> Efectivos involucrados: xotros: -> Efectivos involucrados: x regional -> Efectivos involucrados: interregional -> Efectivos involucrados: interregional -> Efectivos involucrados: <	médico especialista >> Efectivos involucrados: X médico de Atención Primaria >> Efectivos involucrados: Centro de Salud Tineo X enfermera >> Efectivos involucrados: Centro de Salud Tineo X auxiliar sanitario >> Efectivos involucrados: Centro de Salud Tineo Comadrona >> Efectivos involucrados: cornadrona >> Efectivos involucrados: coidador >> Efectivos involucrados: asistencia vital >> Efectivos involucrados: auxiliar >> Efectivos involucrados: auxiliar doméstico >> Efectivos involucrados: auxiliar doméstico >> Efectivos involucrados: x otros: ciudadanía >> Efectivos involucrados: X regional		
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asistencia vital -> Efectivos involucrados: cuidador -> Efectivos involucrados: fisioterapeuta -> Efectivos involucrados: auxiliar -> Efectivos involucrados: auxiliar doméstico -> Efectivos involucrados: pedicura -> Efectivos involucrados: x otros:	asistencia vital -> Efectivos involucrados: cuidador -> Efectivos involucrados: fisioterapeuta -> Efectivos involucrados: auxiliar -> Efectivos involucrados: auxiliar doméstico -> Efectivos involucrados: pedicura -> Efectivos involucrados: X otros:		
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Número de centros referencia: 1 Centro de Salud (Tineo) Número de centros periféricos o domicilios concernidos: : 6 consultorios periféricos (Navelgas,	Número de centros referencia: 1 Centro de Salud (Tineo) Número de centros periféricos o domicilios concernidos: : 6 consultorios periféricos (Navelgas,	X regional interregional nacional	·s:
Número de centros periféricos o domicilios concernidos: : 6 consultorios periféricos (Navelgas,	Número de centros periféricos o domicilios concernidos: : 6 consultorios periféricos (Navelgas,	¿Cual es el centro de referencia?: (Centro de Salud de Tineo
		Número de centros referencia: 10	centro de Salud (Tineo)



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e-RESATER Final Evaluation Report e- RESATER SOE3/P1/F682 Program INTERREG IV B SUDOE



RESATER RESAUDE SANTE ET TELEMODECNE EN DONS UNALES	Ficha descriptiva GEMS V1, Febrero 2015 e- RESATER SOE3/P1/F6 Programme INTERREG IN	82,	SUDO	Ę ****
Actores impli	cados			
¿Quien es el u □ el paciente	usuario final de la aplicació	n?: -> Efectivos invo	blucrados:	
Primaria + pol	sanitario junto a paciente blación con patologías crón l sanitario a distancia		r, colesterol, depresió	
	ario de servicios -	 -> Efectivos invo -> Efectivos invo > Efectivos invo 	lucrados: lucrados:	
(técnicos mur	iicipales, asociaciones, ciud	adanía, profesiona	es)	
¿Cuales son lo □ médico esp	os profesionales de la saluc	d involucrados?: -> Efectivos inv	volucrados:	
	Atención Primaria	-> Efectivos inv	volucrados: Centro de volucrados: Centro de	
X auxiliar sani	1	-> Efectivos inv		Salud Tineo
□ otros:	·	-> Efectivos inv	olucrados:	
¿Cuáles son l o □ asistencia y	os profesionales medico-so vital	-> Efectivos inv		
cuidador	ind i	-> Efectivos inv		
□ fisioterape	uta	-> Efectivos inv	volucrados:	
🗆 auxiliar		-> Efectivos inv	volucrados:	
🗆 auxiliar dor	néstico	-> Efectivos inv	olucrados:	
pedicura		-> Efectivos inv	olucrados:	
X otros: ciudadanía		-> Efectivos inv	volucrados: técnicos l	ocales, asociaciones,
El sistema/dis X regional	spositivo/aplicación es:			
□ interregion	al			
nacional				
□ internacior	nal			
¿Cual es el ce	ntro de referencia?: Centro) de Salud de Tineo		
Número de ce	entros referencia: 1 Centro	de Salud (Tineo)		
	c entros periféricos o dom 1onasterio, Gera, Tuña, Soto			eriféricos (Navelgas,
		,	,	
				2

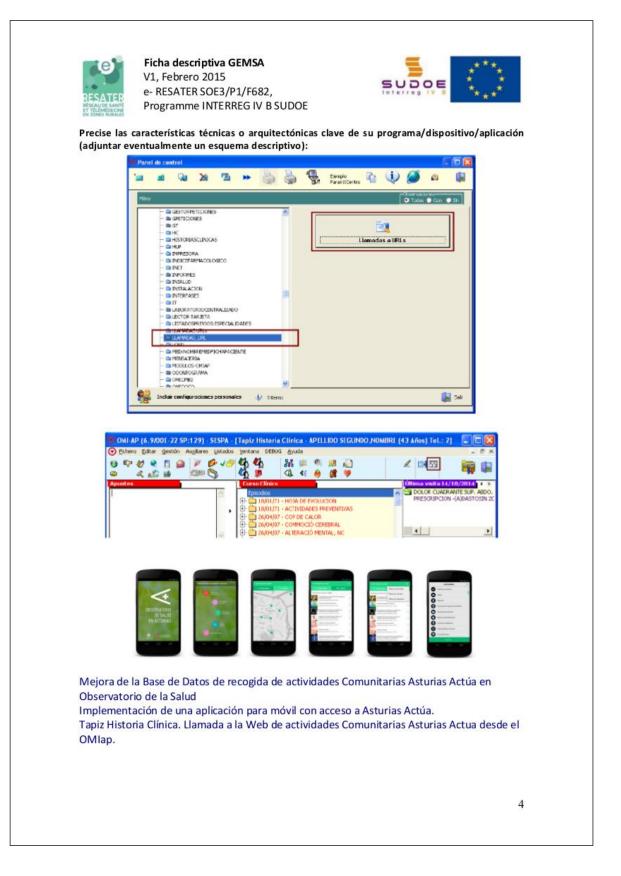




e- RESATER SOE3/P1/F682, Programme INTERREG IV B SUDOE Perfil de acción / riesgo El sistema/ dispositivo/aplicación concierne (varias opciones p X la consulta / el diagnostico la vigilancia la asistencia X una intervención (?) otro: ¿Cual es la especialidad concernida? Recomendación de act (depresión, cardiovascular, ansiedad, colesterol, hipertensión ¿Cual es la población concernida (Varias respuestas posibles)?: toda la población los jóvenes/niños las personas mayores las personas que padecen una enfermedad crónica (citarla ansiedad, colesterol, hipertensión) otros: El ámbito de aplicación del sistema/dispositivo/aplicación: X interno en un establecimiento de atención sanitaria (en Aplica entre establecimientos de atención sanitaria red ciudad/hospital HAD, hospitalización a domicilio práctica ambulatoria X otro: Aplicación móvil Número de pacientes afectados (al año/al mes/semanalmente Población con cronicidad que acuda a consulta de atención prim Localización de los equipamientos (mayoritariamente)	ividad física para enfermos crónicos) a:): depresión, riesgo cardiovascular,
El sistema/ dispositivo/aplicación concierne (varias opciones p X la consulta / el diagnostico la vigilancia la asistencia X una intervención (?) otro: ¿Cual es la especialidad concernida? Recomendación de act (depresión, cardiovascular, ansiedad, colesterol, hipertensión ¿Cual es la población concernida (Varias respuestas posibles)?: toda la población los jóvenes/niños los adultos las personas mayores las personas que padecen una enfermedad crónica (citarla ansiedad, colesterol, hipertensión) otros: El ámbito de aplicación del sistema/dispositivo/aplicación: X interno en un establecimiento de atención sanitaria (en Aplica entre establecimientos de atención sanitaria HAD, hospitalización a domicilio práctica ambulatoria X otro: Aplicación móvil Número de pacientes afectados (al año/al mes/semanalmente Población con cronicidad que acuda a consulta de atención prim	ividad física para enfermos crónicos) a:): depresión, riesgo cardiovascular,
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 la asistencia X una intervención (?) otro: ¿Cual es la especialidad concernida? Recomendación de act (depresión, cardiovascular, ansiedad, colesterol, hipertensión ¿Cual es la población concernida (Varias respuestas posibles)?: toda la población los jóvenes/niños los adultos las personas mayores las personas con discapacidad X las personas que padecen una enfermedad crónica (citarla ansiedad, colesterol, hipertensión) otros:) a:): depresión, riesgo cardiovascular,
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(depresión, cardiovascular, ansiedad, colesterol, hipertensión ¿Cual es la población concernida (Varias respuestas posibles)?: toda la población los jóvenes/niños los adultos las personas mayores las personas con discapacidad X las personas que padecen una enfermedad crónica (citarla ansiedad, colesterol, hipertensión) otros:) a:): depresión, riesgo cardiovascular,
(depresión, cardiovascular, ansiedad, colesterol, hipertensión ¿Cual es la población concernida (Varias respuestas posibles)?: toda la población los jóvenes/niños los adultos las personas mayores las personas con discapacidad X las personas que padecen una enfermedad crónica (citarla ansiedad, colesterol, hipertensión) otros:) a:): depresión, riesgo cardiovascular,
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 los adultos las personas mayores las personas con discapacidad X las personas que padecen una enfermedad crónica (citarla ansiedad, colesterol, hipertensión) otros:	
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 las personas con discapacidad X las personas que padecen una enfermedad crónica (citarla ansiedad, colesterol, hipertensión) otros:	
ansiedad, colesterol, hipertensión) Description of the statema dispositivo de aplicación del sistema dispositivo de aplicación: X interno en un establecimiento de atención sanitaria (en Aplica entre establecimientos de atención sanitaria red ciudad/hospital HAD, hospitalización a domicilio práctica ambulatoria X otro: Aplicación móvil Número de pacientes afectados (al año/al mes/semanalmente Población con cronicidad que acuda a consulta de atención prim	
 otros:	cián (MLAP)
El ámbito de aplicación del sistema/dispositivo/aplicación: X interno en un establecimiento de atención sanitaria (en Aplica entre establecimientos de atención sanitaria red ciudad/hospital HAD, hospitalización a domicilio práctica ambulatoria X otro: Aplicación móvil Número de pacientes afectados (al año/al mes/semanalmente Población con cronicidad que acuda a consulta de atención prim	cián OMLAP)
X interno en un establecimiento de atención sanitaria (en Aplica entre establecimientos de atención sanitaria red ciudad/hospital HAD, hospitalización a domicilio práctica ambulatoria X otro: Aplicación móvil Número de pacientes afectados (al año/al mes/semanalmente Población con cronicidad que acuda a consulta de atención prim	ción OMLAP)
 entre establecimientos de atención sanitaria red ciudad/hospital HAD, hospitalización a domicilio práctica ambulatoria X otro: Aplicación móvil Número de pacientes afectados (al año/al mes/semanalmente Población con cronicidad que acuda a consulta de atención primero 	ción OMLAP)
 red ciudad/hospital HAD, hospitalización a domicilio práctica ambulatoria X otro: Aplicación móvil Número de pacientes afectados (al año/al mes/semanalmente Población con cronicidad que acuda a consulta de atención prim 	
 HAD, hospitalización a domicilio práctica ambulatoria X otro: Aplicación móvil Número de pacientes afectados (al año/al mes/semanalmente Población con cronicidad que acuda a consulta de atención prim 	
 práctica ambulatoria X otro: Aplicación móvil Número de pacientes afectados (al año/al mes/semanalmente Población con cronicidad que acuda a consulta de atención prim 	
X otro: Aplicación móvil Número de pacientes afectados (al año/al mes/semanalmente Población con cronicidad que acuda a consulta de atención prim	
Población con cronicidad que acuda a consulta de atención prim	
Localización de los equipamientos (mayoritariamente)	haria
¿Donde se encuentran los equipamientos?	
X el paciente los lleva encima (móvil)	
en el domicilio del paciente	
en institución para larga estancia	
X en la consulta del profesional (aplicación OMI-AP) en una estructura de cuidados	
en una estructura de cuidados en un tercero tecnológico	
□ otro:	

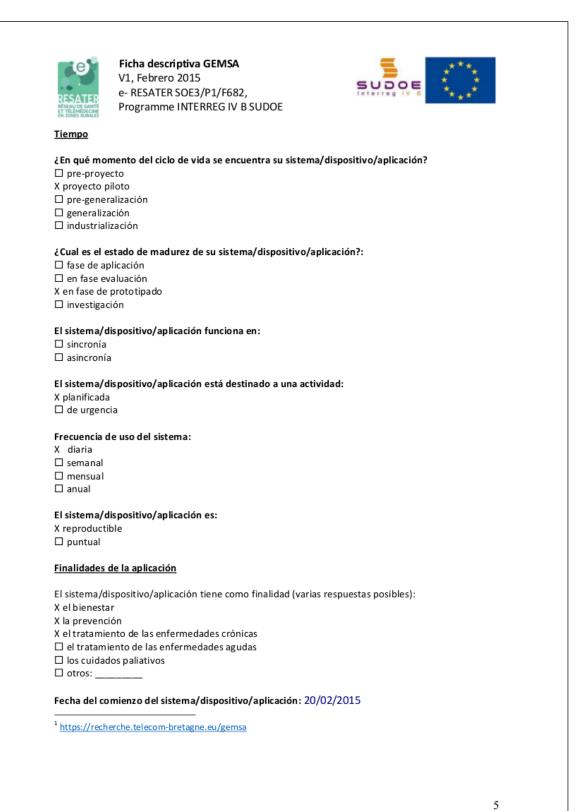
















5.6.- Evaluation Form Shared Health and Social Record

V1, Juin 2015 e- RESATER SC		
GEMSA: Fiche descript	ive de son systèr	me/dispositif/application
Nom du système/dispositif	application : Dossi	er Médico-social partagé pluri professionnel du
Couserans		
Nom du porteur : Syndicat M	ixte du Pavs Cousera	ans
Institution du porteur : Fonct	and the second strends as a second	
Région du porteur : Couseran	s, Ariège, France	
Quelles sont les besoins de n	olitique publique vie	sés par votre système/dispositif/application ?
		de la personne et faciliter l'échange
d'informations. dans un bass		
Quel est l'apport de votr	e système/disposit	if/application par rapport à la problématique
précédente ?		
Identifier les informations do	nt chacun a besoin e	et les moyens d'échanges interprofessionnels du
patient.		
Le système/dispositif/applica	ation est-il basé sur (des financements obtenus auprès :
Instances européennes		TERRREG IV B SUDOE Montant :
Instances nationales	lesquelles :	Montant :
Instances locales	lesquelles :	Montant :
Industrie	lesquelles : lesquelles :	Montant : Montant :
	lesquelles :	Montant :
Acteurs impliqués		
Qui est l'utilisateur final de l'	application:	
Ile patient	1000	-> Effectifs concernés :en T0 :Tfin :
☑ le professionnel de santé a	u chevet du patient	
Ie professionnel de santé à	distance	-> Effectifs concernés :en T0 :Tfin :
🗆 l'expert		-> Effectifs concernés :en T0 :Tfin :
🗆 un aidant		-> Effectifs concernés :en T0 :Tfin :
🗹 un autre prestataire de ser	vices : Aides à la pers	onne -> Effectifs concernés :en T0 :Tfin :
19 27 mm 19 20 mm 19 2 20 mm - 12 2 2 2 2 1 mm - 12 2 2 2 2 2 2 mm - 12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	s de santé concernés	s (plusieurs réponses possibles):
Médecin hospitalier		-> Effectifs concernés :en T0 :Tfin :
☑ médecin libéral		-> Effectifs concernés :en T0 :
☑ infirmier(ère)		-> Effectifs concernés :en T0 :Tfin :
☑ auxiliaire de santé □ sage femmes		-> Effectifs concernés :en T0 :Tfin : -> Effectifs concernés :en T0 :Tfin :
☑ sage remmes ☑ autres: HAD		-> Effectifs concernes :en T0 :Tfin :
M autres: HAD		
M autres: HAD		







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-> Effectifs concernés :en TO : ____Tfin : ____ -> Effectifs concernés :en T0 : _____Tfin : _____

-> Effectifs concernés :en TO : _____

-> Effectifs concernés :en TO : ____Tfin : ____

-> Effectifs concernés :en T0 : ____Tfin : ____

-> Effectifs concernés :en T0 : _____

Quels sont les professionnels médico-sociaux concernés (plusieurs réponses possibles): -> Effectifs concernés :en T0 : __Tfin :

- ☑ assistance de vie
- □ garde malade ☑ kinésithérapeute
- ☑ aide-soignante
- ☑ aide-ménagère
- □ pédicure
- ☑ autres: Services sociaux

Le système/dispositif/application est-il :

- ☑ Régional (local)
- □ Interrégional
- □ National
- □ International

Qui est le centre de référence: ECHOSANTE MAIA

Nombre de centres référents: 1

Nombre de centres périphériques ou domiciles concernés: 5 dossiers patients suivi en gestion de cas.

Profil d'action / risque

Le système/dispositif/application concerne-t-il (plusieurs options possibles) :

- ☑ La consultation / le diagnostic
- ☑ La surveillance
- ☑ L'assistance □ Une intervention (?)
- Autre: la coordination

Quelle est la spécialité concernée ? Médecine générale, Maladies chroniques évolutives

Quelle est la population concernée (plusieurs réponses possibles)? :

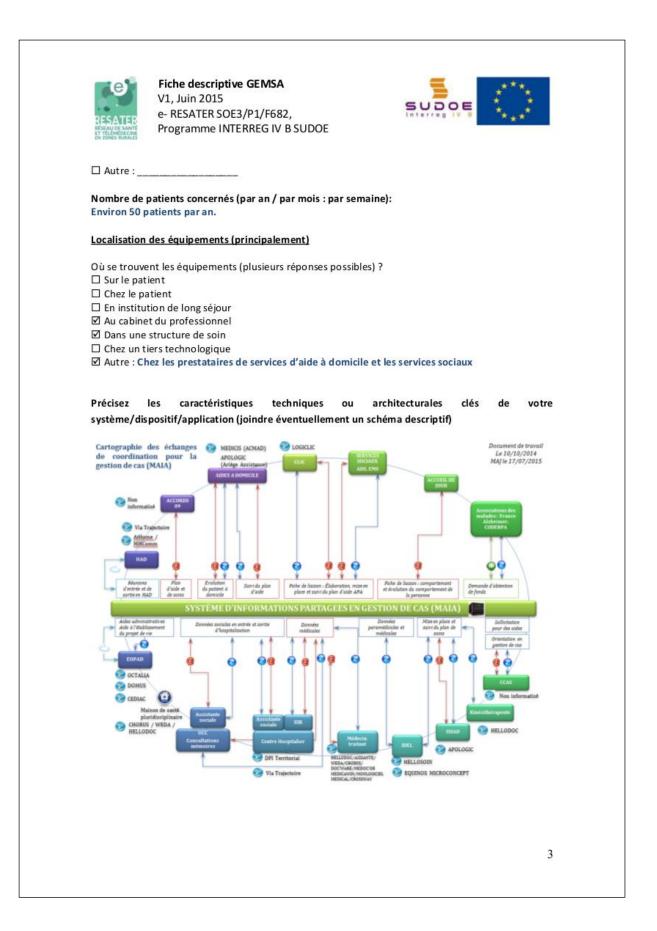
- □ Toute la population
- Les jeunes / enfants
- Les adultes
- ☑ Les personnes âgées
- Les personnes handicapées
- □ les personnes atteintes d'une maladie chronique (laquelle:)
- ☑ Autres: Personnes atteintes de maladies aigües ou chroniques évolutives et/ou instables

Le champ d'application du système/dispositif/application:

- Interne à un établissement de soins
- Entre établissements de soins
- Réseau ville-hôpital
- □ HAD, hospitalisation à domicile
- Pratique ambulatoire













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Temps

Dans quelle partie du cycle de vie se situe votre système/dispositif/application?

- □ Pré-projet
- Projet pilote
- Pré-généralisation
- Généralisation
- Production
- Industrialisation

Quel est l'état de maturité de votre système/dispositif/application:

- □ En application
- Evaluation
- ☑ Prototypage
- □ Recherche

Le système/dispositif/application fonctionne-t-il en :

- Synchrone
- □ Asynchrone

Le système/dispositif/application est destinée à une activité:

- Planifiée
- D'urgence

Fréquence d'utilisation du système:

- ☑ Quotidienne
- Hebdomadaire
- □ Mensuelle
- Annuelle

Le système/dispositif/application est-il :

- ☑ Reproductible
- De nature isolée

Finalités de l'application

- Le système/dispositif/application a pour finalité (plusieurs réponses possibles):
- 🗆 Le bien-être
- □ La prévention
- Le traitement des maladies chroniques
- Le traitement des maladies aiguës
- □ Les soins palliatifs
- Autres : Lien de coordination.

Date de début du système/dispositif/application: Début des groupes de travail : Août 2014





6.- Annex II. Questionnaires and Forms

Cuestionarios de Evaluación de Satisfacción de usuarios PROYECTO e- RESATER SOC3/PI/F682
Cuestionario de satisfacción general del proyecto e-RESATER
Intrucciones de uso
Estimado Sr. Sra:
Este cuestionario mide su grado de satisfacción o desagrado con el equipamiento que ha recibido en el
proyecto e-RESATER.
El objetivo es conocer si el equipo ha funcionado correctamente para Usted y encontrar posibles
mejoras.Sus respuestas serán evaluadas y muy valoradas.
Information general
Nombre encuestado:
Fecha:
Ocupación:
Ocupación: Organización:
organización.
Dirección/Ciudad/País:
Rol en el proyecto e-RESATER (margue con una X)
Enfermera
Médico
Auxiliar/Gerocultor
Otros
Específique:
He usado el siguiente equipamiento:
Por favor, anote el equipamiento que ha utilizado durante la duración del proyecto (por favor, margue su
respuesta con una x):
Tensiómetro
Pulsioximétro
Glucométro
Electrocardiograma de 12 derivaciones Card Guard 12-lead SelfCheck ECG (ECG Monitor)
Tableta
Portal de telemonitorizacion
Termómetro Timpánico

Picture 25: User satisfaction questionnaire.Introduction

Te				-		
	Cuestionarios de Evaluación de	•		-	*	1
RESATER	Satisfacción de usuarios		SU	DOF		÷
Contraction of the	PROYECTO e- RESATER SOE3/P1/F682					***
	Los dispositivos					
	Facilidad de uso, aceptación and satisfac	ción!				
Las siguientes p	preguntas están relacionadas con los dispositivos que	ha ut	tiizado	o como	parte	del
proyecto e-RES	ATER. El objetivo de esta parte consiste en medir su	nivel	de sat	isfacci	ón o	
desagrado con (el equipo y comprobar el grado de fácil manejo del mi	smo.				
	apartado, por favor, marque su opinión con una X. La	s cinc	o cate	gorías	son:	
1. Nada						
2. Muy poco						
3. Neutro						
4. Mucho 5. Totalmente						
 Lotalmente 			1 1	1 2	1	6
Grado da estisti	acción con el equipamiento		4			0
	acción con la formación recibida	-	-	-	-	-
	acción con el manual recibido	-	-	+	-	+
	acción con el soporte	-	-		-	-
			-			
Comentarios:						
A continuación,	por favor, señale su grado de satisfacción con respe-	cto a l	as sig	uientes	5	
leclaraciones. F	Por favor, marque su opinión con una X. Las 5 catego	ría so	n las	siguien	ites:	
	en desacuerdo					
En desacue						
3. Indiferente						
 De acuerdo 						
5. Totalmente	de acuerdo	1	2	2		5
El equipo es fác	A de conce		- 2	3	-	5
	upo ha mejorado mi trabajo	-	+	-	-	+
	ejorado mi capacidad para ayudar a las personas	+	+	-	+	+
El equipo es fác		-	+	-	+	+
Vov a echar de	menos el equipo cuando el proyecto se acabe	-	+	-	+	+
	a proporcionado un mayor sentimiento de seguridad	-	+		-	-
	o es fácil de usar		-		-	-
		-	-		•	
Comentarios:						
Cupptas veces	s ha utilizado el equipo? (margue con una X)	_	_			
1. Diariamente	(_	_			T
2. Semanalmen	te					+
3. Más de una v	vez al mes					
4. Menos de una	a vez al mes					
El equipo ha m	nejorado la satisfacción de su trabajo? (marque con u	na X)				
Si						
No						1
	20					
Por favor, espec	cifique:					
the text to she's	a sublime and all sublide? Deviational functions		an dias			
pria tenido álgú	in problema con el equipo? Por ej, mal funcionamienti	o de la	os aisp	20SITIVO	rs (mar	que

Picture 26: User satisfaction questionnaire. Use of devices





						Erra tendo provenias con er portar: (marque con una X)	4.3
		-	- 1		*	Sí	-
Cuestionarios de Evaluación de						No	T t
Satisfacción de usuarios	9	SUD	DE		÷.		1
				*÷		Por favor, específique:	
PROYECTO e- RESATER SOE3/P1/F682			_		_	Por lavor, especialque.	1,
El portal							
Facilidad de uso, aceptación and satisfaco	ión!					¿Cree que el portal es una herramienta útil? (margue con una X)	l e
					_		٦.
Las siguientes preguntas están relacionads con el portal que Ud, ha u						No	
RESATER. El objetivo de este apartado es medir su nivel de satisfacci							+ ~
comprobar la facilidad de uso del mismo. Bajo este subcuestionario, el						Por favor, específique:	
				a tanto ei	<u> </u>	Por favor, especifique:	•
portal propiamente dicho como el consiguiente sistema de alarmas inte	egrado	en ei po	intai.		_		
					_	¿El portal ha planteado algun problema ético? (margue con una X)	l s
En el siguiente apartado, por favor, marque su opinión con una X. Las	cinco d	categori	as so	on:			٦.
1. Nada					_	No	
2. Muy poco						IND	+ *
3. Neutro					_		1
4. Mucho					_	Por favor, específique:	•
5. Totalmente							_
	1	2	3	4	5	¿El portal le ha ahorrado tiempo en su trabajo diario? (marque con una X)	1.9
Grado de satisfacción con el portal					_	Sí	٦.
Grado de satisfacción con la formación recibida					_	Ne	٦.
Grado de satisfacción con el manual recibido							1
Grado de satisfacción con el soporte					_	Por favor, específique:	
						r or lavor, especialque.	4,
Comentarios:							Π
						¿El portal le ha costado tiempo en su trabajo diario? (marque con una X)	10
A continuación, por favor, señale su grado de satisfacción con respect						Sí	9
declaraciones. Por favor, marque su opinión con una X. Las 5 categori	ia son I	as sigui	entes	5:		No	E
1. Totalmente en desacuerdo							Т
2. En desacuerdo						Por favor, especifique:	
3. Indiferente o neutro							•
4. De acuerdo						¿Qué ha resultado posible a través de esta tecnología que antes era imposible?	Ĩ 11
5. Totalmente de acuerdo						Sí	١.
	1	2	3	4	5	No	
El portal es fácil de usar						N0	4 *
He usado el portal de manera regular					_		
Siento que el portal ha mejorado mi trabajo						Por favor, específique:	_ <
El portal ha mejorado la capacidad de ayudar a personas mayores							_
El portal me ha brindado más tiempo para realizar otras actividades						¿Le gustaría disponer del portal como herramienta permanente? (marque con una X)	12
Voy a echar de menos el portal cuando el proyecto se acabe						Sí	Τa
El portal me ha proporcionado un mayor sentimiento de seguridad						No	1.
						1.00	1
Comentarios:						Por favor, específique:	
						For favor, especinque:	1 4
¿Cuántas veces ha utilizado el portal? (marque con una X)			_		_		
1. Diariamente	_	_	_	_	_	Comentarios y sugerencias	13
2. Semanalmente					-		a
3. Más de una vez al mes			_	-	-		
4. Menos de una vez al mes					-		_
 menos de una vez armes 				_	_	Aceptado y aprobado por:	14
¿El equipo ha mejorado la satisfacción de su trabajo? (margue con un			_		_	Apellido	٦.
Si si substatica substatication de su trabajor (marque con una	a n)			1	-	Tratamiento:	
No					-	Nombre:	12
				- 1	-	remote.	4,
Por favor, específique:							
i or interit, experiendue.					_		

Picture 27: User satisfaction questionnaire. Use of the telemonitoring portal

RESATER	Cuestionarios de Evaluación de Satisfacción de usuarios PROYECTO e- RESATER SOE3/P1/F682 El servicio	SI		,Ę	ť,	y.			
	Aceptación y satisfacción								
as siguientes preguntas están relacionads con el servicio que Ud. ha usado durante el proyecto ESATER. El objetivo de este apartado es medir su nivel de satisfacción or desagrado con el ervicio y comprobar las ventajas del uso del mismo.									
En el siguiente a	En el siguiente apartado, por favor, marque su opinión con una X. Las cinco categorías son:								
1. Nada	partado, por lavor, marque su opinion con una x. c	as on	co car	regoria	5 5011.	_			
2. Muy poco									
3. Neutro									
4. Mucho									
5. Totalmente									
		1	2	3	4	5			
	cción con el equipo								
	cción con la formación recibida			-	-	-			
	cción con el manual recibido		-		-	-			
Grado de satistad	cción con el soporte		-	-	-	-			
Comentarios:									
¿El servicio ha m	ejorado su satisfacción laboral?(marque con una)	K)							
Sí									
No									
Por favor, especi	fque								
¿Cree que el sen	vicio es útil? (marque con una X)								
Si									
No									
Por favor, especi	fque								
¿El servicio ha ca	ausado alguna situación peligrosa? (marque con u	na X)							
Sí									
No			_		_				
Por favor, especi	Por favor, específque								
¿El servicio ha su Sí	upuesto algun problema ética? (marque con una >	<)				I			
No									
Por favor, especi	ífque								
	ahorrado tiempo en su trabajo diario? (marque co	in una	X)						
si									
No						-			
Por favor, especi	fque								
¿El servicio le ha	costado tiempo en su trabajo diario? (margue con	una)	0						
01	the state of the s				_	T			

¿Qué novedades o mejoras ha aportado este serivicio?	
Por favor, específique	
Le gustaría que el servicio se prestara de forma permanente? (marque	e con una X)
Sí	
No	
Por favor, específique: ;Cree que se debería pagar extra por servicios? (marque con una X)	
Sí	
No	
Comentarios finales y sugerencias	
Aceptado y aprobado por: Apellidos: Tratamiento:	

Picture 28: User satisfaction questionnaire. Use of the telemonitoring portal





7.- Acknowledgements

The e-RESATER consortium would like to thank the experts committee their collaboration in the activities of the project, and their interest in all the initiatives presented.

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