



EHAS

ENLACE HISPANO AMERICANO DE SALUD

ACTIVITY REPORT 2015

EXECUTIVE SUMMARY

During 2015 EHAS Foundation has continued working on its cooperation and research projects throughout this period successfully. As in previous years, EHAS have been strengthening its collaboration networks to carry out its projects in Latin America and looking for new international funding sources.

An important part of the efforts in 2015 was dedicated to a project focused on the improvement of maternal and neonatal health in Guatemala using innovative tools for health. This project is called Healthy Pregnancy and has the financial support of 4 international funders: Spanish Agency of International Cooperation for Development (AECID); United States Agency for International Development (USAID); Inter-American Development Bank (IDB) and Polytechnic University of Madrid (UPM). During 2015 prenatal controls have been offering to approximately 3.000 pregnant women in Alta Verapaz and San Marcos, using portable ultrasound scan and blood and urine analysis with rapid strips. This project will continue in 2016. This initiative is currently being scaled to Peru thanks to the support of MIF-IDB.

Regarding mobile communications, EHAS has also focused on the project TUCAN3G. TUCAN3G project is a consortium of 11 members included in the 7th program of the European Commission Frame. The objective is to research on new technologies and business models capable of providing 3G services in remote areas of developing countries (Peru and Colombia). During 2015 EHAS has focused its contribution on proposing innovative business models for making TUCAN3G solutions sustainable in the long term. This project will end in May 2016.

Finally, EHAS has been granted with support for new projects in Peru (funded by CAF, the Latin America Development Bank) and in Equatorial Guinea (funded by AECID, the Spanish Development Agency). The project in Equatorial Guinea has just started on December 2015, and the project in Peru will start in march 2016.

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I. EHAS FOUNDATION

EHAS Foundation is a non-profit institution, with official address in Madrid, Spain (Escuela Técnica Superior de Ingenieros de Telecomunicaciones. Ciudad Universitaria s/n. 28040), which aims at improving public Health care systems in remote areas through the application of appropriate information and communication technologies (ICT). EHAS started its activities in 1999 as a result of the collaboration between the Polytechnic University of Madrid and Engineers Without Borders (EWB), and since then, it has interconnected more than 200 Health-care facilities (both Health posts HPs, and centers HCs) with their reference hospitals in Peru, Colombia, Ecuador and Cuba. Along this time, the group of collaborators has broadened and nowadays, the EHAS Board of Directors includes also representatives from Rey Juan Carlos University, Catholic University of Peru and Cauca University in Colombia.

EHAS has worked specifically with primary care facilities of the public Health systems in developing countries. In rural instances, EHAS has operated in relatively well-equipped and well-staffed HCs, as well as remote and less-resourced rural HPs. These HPs are located in areas without roads nor fixed or mobile phone systems, and with very limited medical capabilities. EHAS has strained and succeed to create more effective communications systems between HCs and HPs, specially focusing on connecting medical staff in the most isolated HPs with their better-resourced counterparts in the HCs, in order to achieve four main results:

- Improved the epidemiological surveillance system, since the previous system relied on late or erroneous reports;
- Increased the diagnostic and treatment capacity in the most isolated HPs, allowing a quick and costless consultation with a proper doctor and better coordination of essential medicinal stocks;
- Reduced the need to travel of patients and medical personnel, and thereby, reduced the costs (river travels are expensive) which offset the costs to deploy the infrastructure; and
- Reduced the average time for the emergency transfer of patients, when the transfer is necessary.

In order to achieve these results, EHAS has supported the design, execution and maintenance of telecommunications infrastructures appropriate for each deployment context, which usually is unfriendly, like a forest or a mountains range. These telecommunications networks are based on alternative radio technologies, like HF (High Frequency), VHF (Very High Frequency) or WiLD (WiFi over Long Distances) that are adapted through FOSS (Free and Open Software Source) to the requirements of every Health 'micro-network'. Thanks to this solution, EHAS has extended voice and data connectivity to the most isolated environments. Access to Internet and PSTN (Public Switched Telephone Network) was achieved by distributing satellite or land-line connections available in cities located in a range up to 3500Km. Along the whole process, EHAS has always worked closely with local partners in every target country, like the Rural Telecommunication Group of Catholic University of Peru or the Telematics Department of Cauca University in Colombia.

Besides providing telecommunications' infrastructure and voice and data communications services between Health care centers, EHAS is now implementing projects working on tele-medicine services for remote consultations and diagnostic through the application of specific tools, such as the remote ultrasound tests and epidemic vigilance systems and also the training of Health technicians on the use of this tools and the diagnostic concepts.

Once the network is properly functioning, EHAS transfers to the local and regional Health-care authorities the network control, which means training the users of the systems and preparing all constituents for the network's transfer. EHAS Foundation experience exhibits that using FOSS and open knowledge throughout the process of designing, constructing and maintaining tele-medicine networks, allows such regional Health authorities to optimize their limited budgets and make the networks sustainable. FOSS also allows network administrators to reduce problems with viruses and licenses, and focus on many other kinds of hardware-network problems, like protecting communication devices in the areas where lightning storms are frequent and the humidity level is very high.

EHAS activity in this scope has already had a positive and relevant impact in the Health care process, specially related to the following achievements:

- Before EHAS implementation, the 93% of the Health-care personnel said that was impossible to make consultations, being the 95% of them who now says that making consultations in case of hesitation is quick and easy. And the number of consultations has increased on a 700%.
- The number of trips to deliver medical reports has been reduced to a quarter part of the number of trips needed before.
- The average time for transportation of urgent patients has been a 60% reduced.
- The children and maternal mortality ratio has decreased considerably in the intervention areas.

EHAS Foundation also works on research, training and dissemination projects about the ICTs application in the Health sector, using technologies to fight the inequity of access to Health-care services in remote areas from Latin America and other developing countries.

In the previous years, EHAS has been collaborating with Spanish and Argentinian universities and hospitals, working on the development tools for diagnostic systems to fight prevalent diseases suffered by children (respiratory illness and diarrhea) and to provide assistance to pregnant women.

A sample of those systems, is the wireless stethoscope on real time for areas without doctor, which permits that a remote doctor (usually the reference doctor) can listen to the breath and cardiac sounds of the patient, while watching at him/her, and being able to guide to the Health technician about the correct position of the stethoscope. It has also been developed a system for sending microscopy images (diarrhea), ultrasounds and fetal control. At the same time is being developed an ECG with the proper technology adapted to the rural environment.

Additionally, Rey Juan Carlos University, collaborating with EHAS Foundation, has created a Masters Course, including Doctorate program, on Telecommunication Network for Developing Countries, aiming to provide high qualification training to engineers from developing countries. The main goals of the master course are to achieve the multiplier effect through the trainings. The developed technology is all based in FOSS and the students can, this way, use it to solve problems in the remote rural areas in their countries.

EHAS Foundation also works on several publications and raising awareness activities about the importance of ICTs applied for the development of the Health sector.

II. FOUNDATION ACTIVITY

GOALS AND ACTIVITIES ESTABLISHED IN THE FOUNDATION STATUTES:

A) International Cooperation for the Development of the Information and Communication Technologies sector, applied to Health issues in countries from Latin America or other developing countries.

B) Investigation and development of information society in order to improve the Health sector in countries from Latin America or other developing countries.

In order to achieve these goals, the Foundation can develop, according to the report and the yearly action plan, approved by the Board, general and specific activities that just in a descriptive way and without exhaustive pretension, are mentioned below.

GENERAL ACTIVITIES:

1. The scientific investigation and technological development in the information and communication technologies sector, applied to Health issues in countries from Latin America and other developing countries.
2. Training to technical and sanitary personnel on information and communication technologies, or on Health, using these information and communication technologies.
3. Promotion of exchange, creation of networks and cooperation agreements between universities, research centers, Health institutions and private or public institutions that share the Foundation goals.
4. Dissemination of results, and successful or not successful experiences about information and communication technologies applied to Health issues.

SPECIFIC ACTIVITIES:

- I. Innovative projects on information and communications infrastructure on developing countries.
- II. Innovative projects on tele-medicine services.
- III. Equipment resources for Health institutions.
- IV. Resources for communication and computer labs.
- V. Equipment development and applications on tele-medicine.
- VI. Development of trainings, conferences, congresses, seminars, symposium, discussion, trips, and study sessions.
- VII. Resources for scholarships and trips for students and teachers.
- VIII. Redaction, edition and distribution of leaflets, monographs and every type of publication, regular or not, for the information, training and dissemination.

IX. Dissemination of experiences in congresses, conferences, seminars, meetings and scientific or cultural events.

X. Dissemination of results to experts, in technical and sanitary publications, through traditional and electronic communication ways.

XI. Awareness for people and institutions about the importance of information and communication technologies applied to Health issues in developing countries.

XII. Any other activities that the Board considers convenient to achieve the goals.

(Article 3. Foundation Statutes)

III. ACTIVITY AREAS OF INTERVENTION

EHAS Foundation has been developing activities in 2015 inside of the following diverse target area:

Region	Country	Partner
Latin America	Guatemala	TulaSalud
	Peru	Pontifical University Catholic Peru
	Bolivia	Energética. Energía para el Desarrollo
	Ecuador	University Private Technical Loja
	Colombia	University of Cauca
Europe	Spain	University Rey Juan Carlos

IV. ACTIVITY REPORT

ACTIVITY 1:

AECID 2013 – HEALTHY PREGNANCY GUATEMALA

A) Identification

Name of the activity	AECID 2013 – HEALTHY PREGNANCY GUATEMALA
Type of activity *	Related to the Foundation
Identification of activity sector	Social and institutional interest. Science
Activity target area	Guatemala

Detailed description of the activity.

During 2015 Healthy Pregnancy activities have been continued in Guatemala, running a project launched in June 2014 with the goal of improving maternal health of 10,500 pregnant women in rural areas. The initiative is based in the use of technological tools specially designed for use in rural areas that ensure quality diagnoses and enable health risk control of pregnant women in this area. The health counselling that we offer in these communities is complete with monthly visits by traveling brigades of nurses equipped with portable ultrasounds and a prenatal screening system based on analysis of blood recovered from test strips. After a first phase of acquisition of equipment and supplies, as well as training of health personnel for the use of these kits ultrasound, 2015 was the year of consolidation of prenatal care in communities, achieving more than 3,000 pregnant women attended in both departments of Guatemala.

The initiative is the result of the collaboration with the local partner TulaSalud and financial support of AECID (Agency of Spanish International Cooperation for Development). Also, the MIF (Multilateral Investment Fund) of the IDB (Inter-American Development Bank) has joined in the amplification of the project, as well as the Development Innovation Venture program at the United States Agency for International Development (USAID) and Polytechnic University of Madrid (UPM), entity that had already supported the pilot of the current project. The total funding of the project with all these entities amounted to 390,000€, whose carrying out is expected to close, once reached 10,500 pregnant women attended, between April and May 2017, after appropriate extensions granted by the funders.

Since the beginning of the activities EHAS has worked on the project's sustainability. Indeed, currently a possible extension to more than 4,000 pregnant during 2017 is being analyzed, thanks to a private donation and to the support of Guatemalan health institutions.

B) Human resources needed for activity.

Type	Number		Hours per year	
	Planned	Done	Planned	Done
Salaried personnel	2	2	1.000	1.500
Service contract personnel	0	0	0	0
Volunteer personnel	4	4	2.400	2.400

C) Goals and indicators of the activity.

Goal	Indicator	Quantity	
		Planned	Done
Improve prenatal healthcare with tools designed for using in rural areas (portable ultrasound and analysis with test strips), in order to avoid risk factors for pregnant women.	Number of prenatal controls.	10.500	3.000

ACTIVITY 2

AECID 2014 – SOCIAL ENTERPRISE PERU

A) Identification

Name of the activity	AECID 2014 – SOCIAL ENTERPRISE PERU
Type of activity *	Related to the Foundation
Identification of activity sector	Social and institutional interest. Science
Activity target area	Peru

Detailed description of the activity.

Following the project described in the previous tab (AECID 2013 - HEALTHY PREGNANCY GUATEMALA), and searching for new financial models to carry out this solution in other countries, in February 2015 this new initiative was launched. The scenario in this case are the rural areas of Peru and the model is based on the design and implementation of a social enterprise that offers prenatal diagnostic services for rural areas to health institutions. Once created the Peruvian company (ENLACE SALUD, owned by the EHAS Foundation), during 2015 meetings with the Regional Health Direction have been held to get agreements to provide the service. The solution is based on 3 transcendental pillars for improving rural health care: provision of equipment with a renting model (portable ultrasound probes and test

strips), formation of public staff of healthcare system, and support for remote diagnostic to verify the quality of care.

The initiative has been funded by AECID (Agency of Spanish International Cooperation for Development) with 150.000€ for 18 months (in its call “Innovation for Development 2014”). Also, in march 2015 the MIF (Multilateral Investment Fund) of the IDB (Inter-American Development Bank) has joined to the project with 274.750 USD, in order to strengthen the startup of the company and guarantee the service, supporting the activities for 30 months.

B) Human resources needed for activity.

Type	Number		Hours per year	
	Planned	Done	Planned	Done
Salaried personnel	2	2	1.000	1.500
Service contract personnel	0	0	0	0
Volunteer personnel	4	4	2.400	2.400

C) Goals and indicators of the activity.

Goal	Indicator	Quantity	
		Planned	Done
Create an innovative and scalable model of public-private partnerships to provide prenatal healthcare in isolated rural areas, with technical quality and economic sustainability.	Number of agreements with health institutions.	3	0

ACTIVITY 3

AECID 2015 – HEALTHY PREGNANCY ECUATORIAL GUINEA

A) Identification

Name of the activity	AECID 2015 – HEALTHY PREGNANCY ECUATORIAL GUINEA
Type of activity *	Related to the Foundation
Identification of activity sector	Social and institutional interest. Science
Activity target area	Ecuadorial Guinea

Detailed description of the activity.

The success of Healthy Pregnancy project in Guatemala and the innovative model with a social enterprise in Peru has managed to implement the initiative in a new country with the support of the AECID (Agency of Spanish International Cooperation for Development) again. In December 2015 the project started to improve maternal health with innovative tools in Equatorial Guinea, adapting this solution to the new scenario that opens this country, and becoming the first cooperation project of the EHAS in Africa. This new initiative will provide prenatal healthcare to 2.250 pregnant women in this country, and test the solution in a new context of lower rural isolation but alarming indicators of maternal and neonatal health.

The first month in 2015 allows to plan activities and responsibilities, to start the trainings and health controls in 2016 during 18 months, with the support of 108.770€ of AECID. Also, some Spanish entities are collaborating with EHAS to implement the project in Ecuatorial Guinea, as the Instituto de Salud Carlos III (ISCIII) and the Fundación Religiosos para la Salud (FRS).

B) Human resources needed for activity.

Type	Number		Hours per year	
	Planned	Done	Planned	Done
Salaried personnel	1	1	500	100
Service contract personnel	0	0	0	0
Volunteer personnel	2	2	1.000	100

C) Goals and indicators of the activity.

Goal	Indicator	Quantity	
		Planned	Done
Improve prenatal healthcare with tools designed for using in rural areas, in order to avoid risk factors for pregnant women.	Number of prenatal controls.	2.250	0

ACTIVITY 4

FOMIN 2014 – HEALTHY PREGNANCY GUATEMALA

A) Identification

Name of the activity	FOMIN 2014 – HEALTHY PREGNANCY GUATEMALA
Type of activity *	Related to the Foundation
Identification of activity sector	Social and institutional interest. Science
Activity target area	Guatemala

Detailed description of the activity.

** This activity is the MIF – IDB (Multilateral Investment Fund of the Inter- American Development Bank) co-financing for the project described in Activity 1 to improve maternal and neonatal health in Guatemala, with same goals and indicators (see Activity 1).*

B) Human resources needed for activity.

Type	Number		Hours per year	
	Planned	Done	Planned	Done
Salaried personnel	2	2	1.000	1.500
Service contract personnel	0	0	0	0
Volunteer personnel	4	4	2.400	2.400

C) Goals and indicators of the activity.

Goal	Indicator	Quantity	
		Planned	Done
Improve prenatal healthcare with tools designed for using in rural areas (portable ultrasound and analysis with test strips), in order to avoid risk factors for pregnant women.	Number of prenatal controls.	10.500	3.000

ACTIVITY 5

FOMIN 2015 – SOCIAL ENTERPRISE PERU

A) Identification

Name of the activity	FOMIN 2015 – SOCIAL ENTERPRISE PERU
Type of activity *	Related to the Foundation
Identification of activity sector	Social and institutional interest. Science
Activity target area	Peru

Detailed description of the activity.

** This activity is the MIF – IDB (Multilateral Investment Fund of the Inter- American Development Bank) co-financing for the project described in Activity 2 to design a new model of social business in collaboration with public institutions to improve maternal and neonatal health in Peru, with same goals and indicators (see Activity 2).*

B) Human resources needed for activity.

Type	Number		Hours per year	
	Planned	Done	Planned	Done
Salaried personnel	2	2	1.000	1.500
Service contract personnel	0	0	0	0
Volunteer personnel	4	4	2.400	2.400

C) Goals and indicators of the activity.

Goal	Indicator	Quantity	
		Planned	Done
Create an innovative and scalable model of public-private partnerships to provide prenatal healthcare in isolated rural areas, with technical quality and economic sustainability.	Number of agreements with health institutions.	3	0

ACTIVITY 6

FOMIN 2015 – EU RESEARCHING – TUCAN3G

A) Identification

Name of the activity	EU RESEARCHING – TUCAN3G
Type of activity *	Related to the Foundation
Identification of activity sector	Social and institutional interest. Science
Activity target area	Spain, Peru and Colombia

Detailed description of the activity.

This project was started in February 2013 and it is included in the 7th program of the European Commission Frame with the title “Wireless technologies for isolated rural communities in developing countries based on cellular 3G femtocell deployments”. It is a consortium of 11 members, including EHAS Foundation, which is administrated by the Polytechnic University of Catalonia and coordinated technically by the University Rey Juan Carlos. It has a total duration of 30 months with a budget of 1.677.670 € (out of them, EHAS Foundation has assigned the amount of 102.880€).

TUCAN3G is a research project that aims to provide solutions for sustainable and low cost telecommunications to rural communities in developing countries, basing the study in the Latin America reality. During 2015 EHAS had focused its contribution to the project in the development of research for the potential market of 3G services in rural areas of Peru, to make sustainable the initiative for users and operators. Also, 2015 was the key year for the installation of a demonstration platform in the Peruvian jungle, in order to verify the solution.

B) Human resources needed for activity.

Type	Number		Hours per year	
	Planned	Done	Planned	Done
Salaried personnel	1	2	1.500	2.500
Service contract personnel	0	0	0	0
Volunteer personnel	3	3	1.200	1.200

C) Goals and indicators of the activity.

Goal	Indicator	Quantity	
		Planned	Done
Research on the use of ICT and free software applications in developing countries to improve the living conditions in remote isolated areas.	Research and dissemination projects	2	2
Have influence on social stakeholders to take rural tele-medicine as an alternative to improve the assistance processes and the isolated rural communities' health.	Dissemination activities.	5	5

ACTIVITY 7

USAID 2014 – HEALTHY PREGNANCY GUATEMALA

A) Identification

Name of the activity	USAID 2014 – HEALTHY PREGNANCY GUATEMALA
Type of activity *	Related to the Foundation
Identification of activity sector	Social and institutional interest. Science
Activity target area	Guatemala

Detailed description of the activity.

** This activity is the USAID (USA Agency for International Development) co-financing for the project described in Activity 1 to improve maternal and neonatal health in Guatemala, with same goals and indicators (see Activity 1).*

B) Human resources needed for activity.

Type	Number		Hours per year	
	Planned	Done	Planned	Done
Salaried personnel	2	2	1.000	1.500
Service contract personnel	0	0	0	0
Volunteer personnel	4	4	2.400	2.400

C) Goals and indicators of the activity.

Goal	Indicator	Quantity	
		Planned	Done
Improve prenatal healthcare with tools designed for using in rural areas (portable ultrasound and analysis with test strips), in order to avoid risk factors for pregnant women.	Number of prenatal controls.	10.500	3.000

ACTIVITY 8

FRS COLLABORATION – DHIS2 ECUATORIAL GUINEA

A) Identification

Name of the activity	FRS COLLABORATION – DHIS2 ECUATORIAL GUINEA
Type of activity *	Commercial
Identification of activity sector	Social and institutional interest. Science
Activity target area	Guinea Ecuatorial

Detailed description of the activity.

In September 2015 was signed a Cooperation Agreement between EHAS and Fundación Religiosos para la Salud (FRS), with the aim to design, develop and deploy a Health Information System (SIS) computerized in Equatorial Guinea. This partnership acts as a technical assistance that EHAS provides and that is part of the Development Project running by FRS and funded by AECID called "Capacities in Health Districts strengthening; Health Information System (SIS) improvement and Strategy Health expansion in Equatorial Guinea " (reference code : 14-CO-509).

The first months of activity in 2015 focused on the needs assessment in field to record health data, in order to start designing the software object of collaboration based on the information system DHIS2. This alliance will run over 13 months and has funding of 59.350€.

B) Human resources needed for activity.

Type	Number		Hours per year	
	Planned	Done	Planned	Done
Salaried personnel	1	1	500	500
Service contract personnel	1	1	500	500
Volunteer personnel	1	1	500	500

C) Goals and indicators of the activity.

Goal	Indicator	Quantity	
		Planned	Done
Investigate the use of ICT and free software applications in developing countries to improve living conditions in isolated areas.	Projects implemented in developing countries.	1	1

ACTIVITY 9**CYTED RESEARCHING – ECOTUR****A) Identification**

Name of the activity	CYTED RESEARCHING – ECOTUR
Type of activity *	Related to the Foundation
Identification of activity sector	Social and institutional interest. Science
Activity target area	Spain, Bolivia and Ecuador

Detailed description of the activity.

EHAS participates in this project led by the Solar Energy Institute of the Polytechnic University of Madrid (UPM). It is a project consortium funded by the Ibero-American program for Science and Technology for Development (CYTED), which analyzes the requirements of energy service and telecommunications to achieve sustainable tourism and disseminating knowledge among stakeholders in ecotourism in Latin America. It began in June 2012 with an expected duration of 4 years. The overall cost of the project was reduced in 2013 to 40.876€, and in 2014 there was a further reduction so that the total budget that EHAS will manage is 34.524€.

During 2015, EHAS made a trip to Bolivia with the rest of partners of the project to analyze

telecommunications solutions for the eco-lodges interested in taking part with the project. Also, a pilot of the project in the eco-lodge San Miguel del Bala was visited (close to Rurrenabeque) and the solution will be extended to another point one next year. It has also held meetings with partners in Peru (UNI) to advise on telecommunications solutions to be used.

B) Human resources needed for activity.

Type	Number		Hours per year	
	Planned	Done	Planned	Done
Salaried personnel	1	1	500	500
Service contract personnel	0	0	0	0
Volunteer personnel	0	0	0	0

C) Goals and indicators of the activity.

Goal	Indicator	Quantity	
		Planned	Done
Investigate the use and management of ICT in eco-tourism areas.	Projects implemented in developing countries.	1	1

ACTIVITY 10

AECID 2012 - TELEMICROSCOPY

A) Identification

Name of the activity	AECID 2012 - TELEMICROSCOPY
Type of activity *	Related to the Foundation
Identification of activity sector	Social and institutional interest. Science
Activity target area	Spain and Peru

Detailed description of the activity.

This research project called “New procedures for the diagnosis of forgotten diseases using low cost telemicroscopy” started in April 2013 and is funded by AECID (Spanish Agency of International Cooperation for Development) with a budget of 85.800€. During 2015 EHAS

last activities were carried out in a real world application in Peru. In addition to the implementation of the telemedicine tool, EHAS has carried out diverse activities for the dissemination of the results of the investigation (i.e. attending international conferences and publication of articles). The end of the project was in July 2015.

B) Human resources needed for activity.

Type	Number		Hours per year	
	Planned	Done	Planned	Done
Salaried personnel	1	1	1.500	1.500
Service contract personnel	0	0	0	0
Volunteer personnel	2	2	1.200	1.200

C) Goals and indicators of the activity.

Goal	Indicator	Quantity	
		Planned	Done
Investigate the use of ICT and free software applications in developing countries to improve living conditions in isolated areas.	Projects implemented in developing countries.	1	1

ACTIVITY 11

MICROWDSCOPY PROJECT DESIGN

A) Identification

Name of the activity	MICROWDSCOPY PROJECT DESIGN
Type of activity *	Commercial
Identification of activity sector	Social and institutional interest. Science
Activity target area	Spain

Detailed description of the activity.

Between March and May 2015 EHAS provided a service of support in the formulation of the project "Microwdscopy " to the Polytechnic University of Madrid (UPM), King Juan Carlos University (URJC) and the Polytechnic University of Catalonia (UPC).
 This initiative applied to the H2020 -ICT- 2015 call: Proposal for Research and Innovation Action on ICT- 39-2015 topic.

B) Human resources needed for activity.

Type	Number		Hours per year	
	Planned	Done	Planned	Done
Salaried personnel	1	1	250	250
Service contract personnel	0	0	0	0
Volunteer personnel	0	0	0	0

C) Goals and indicators of the activity.

Goal	Indicator	Quantity	
		Planned	Done
Investigate the use of ICT and free software applications in developing countries to improve living conditions in isolated areas.	Projects implemented in developing countries.	1	1