

TELEHIPPOCRATES – UNIFIED TELEMEDICINE NETWORK OF GREECE AND CYPRUS, WITH INTEGRATED BROADBAND SATELLITE AND LAND (WIRED) NETWORKS

GOOD PRACTICE - PROJECT







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Introduction to the Good Practice:

The project was funded under the INTERREG III A, the Cross-Border Cooperation Program "Greece-Cyprus" and lasted 24 months (2007-2008). The objective of this research project was the development of telemedicine infrastructure, in order to support the chronic patients who live at their home with ventilatory support. This infrastructure was designed to give potential to the intensivists of Intensive Care Unit of Nicosia General Hospital to monitor the vital parameters of patients who were at their home.

Problem:

Patients with chronic deceases and especially those with the need of mechanical ventilation need continuous monitoring and treatment by multidisciplinary healthcare professionals. To achieve that the patient must either be hospitalized or admitted to a healthcare facility or visited at home by a multidisciplinary healthcare professional team. Both options have several cons such us: High cost, patient isolation from family, psychological impact to the patient and limited monitoring.

Solution:

Patients with chronic deceases rely on a ventilator, which provides them mechanical breathing support (one of the fundamental biological processes) and some functions, that are standard in other telemedicine infrastructures, differentiated in this case. The technical infrastructure was designed and was implemented in such a way that does not interfere with daily activities of these patients. Moreover, it ensured the correct use of infrastructure by the patient's attendant and/or his relatives.

Impact:

The service has been functional since 2009. 18 patients at home with mechanical ventilation are continuously monitored and supported. Nicosia's General Hospital has established a team of multidisciplinary healthcare professionals to support the service. Mechanical ventilators are under maintenance support and the cost of treatment and care is covered by Public sector.





1. Relevancy of the GP project

The "Relevancy of the GP project" section provides quick check and definition of its relevancy in regards to HoCare project objectives.

Good practice of quadruple-helix cooperation in R&I?	Yes, this GP project includes good practices of quadruple-helix cooperation in R&I
Good practice of delivery of Home Care R&I?	Yes, this GP project includes good practices of delivery of Home Care R&I.
If not in Home Care R&I, description and proof of its potential for transferability to delivery of Home Care R&I	
Generation of innovation in home care through answering unmet needs identified by formal or informal healthcare providers?	Yes, this GP project includes good practices of innovation through answering unmet needs.
Generation of innovation in home care through public driven innovation?	Yes, this GP project includes good practices of public driven innovation.
Generation of innovation in home care via quadruple-helix cooperation for quicker delivery to the market?	Yes, this GP project includes good practices of innovation via cooperation for quicker delivery to the market.

2. Quick overview of the GP project

The "Quick overview of the GP project" section provides initial overview of the good practice project (GP project) and enables readers to see if this GP project idea is relevant for possible transfer to their organization potential innovation activities.

Name of the GP project	TELEHIPPOCRATES: Unified telemedicine network of Greece and
	Cyprus, with integrated broadband satellite and
	land (wired) networks
Region of origin of GP	Cyprus
project	
5 keywords that best	Mobile e-health,
describe the content of the	Broadband sattelite
GP project	Consulting/ support
	Provisional care
	Telerehabilitation
Relevant Operational	INTERREG III A, the Cross-Border Cooperation Program "Greece-Cyprus" 2000-





through which the GP project has been funded (+ also in local language in brackets) Relevant support programme / intervention area name of the GP project through which it was funded (+ also in local language in brackets) Single or multiple recipients of the GP project? Type of lead recipient (SME, LME, research centre, network/association, university/school, municipality, other public body, other (specify) Types of participating partners (list all participating partners (list all participating partner types. E.g.: hospital, social house, senior house, patient association, networks, SMEs, LMEs, research actors, business supporting organizations, public institutions/regulators, other (specify) Summary of the good practice (max. 5000 characters) The Telemedicine Network of Greece and Cyprus connects with integrated broadband Satellite and Land (wired) Networks the General Hospital of Chios and the Nicosia General Hospital with health centers and rural surgery in remote areas in the Prefecture of Chios and in Cyprus. The network offers three main services in the field of health: - Consulting/ support services of the Hospitals to the health centers and	Programme name	2006
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- Consulting/ support services of the Hospitals to the health centres and		areas in the Prefecture of Chios and in Cyprus. The network offers three main
		services in the field of health:
		- Consulting/ support services of the Hospitals to the health centres and
rural surgeries		rural surgeries





-	Provisional	care and	rehabi	litation e	fforts	for	chronic	patients	s in	their
	base/ home	(areas of	Chios a	and Cypr	us)					
-	Supporting	services	of the	Hospita	ls to	a ı	mobile	medical	unit	, i.e.

- Supporting services of the Hospitals to a mobile medical unit, i.e. ambulance, going to the patient's location. Complementarily, the network is being able to support:
- High Speed Internet services.
- Sound and Visual services in streaming form. Two way communication services in real time that allows the implementation of tele-training (European Programme Emispher).

3. Transferability

The "Transferability" section provides more detailed review of strengths and weaknesses of this GP project including description of necessary basic conditions for region and leading organization to potentially transfer it. At the end of the section, the key threats in the successful transfer open up possibility to focus on specific relevant issues important for the successful transfer.

Strengths and weaknesses of the project

What are the GP project	 Resilient infrastructure utilizing land wired and satellite networks.
strengths? Why it was	 Share of knowledge and expertise amongst two major hospitals
funded? (max. 500	- Safe treatment at home for chronic decease patients
<u>characters</u>)	 Transparent technological complexity utilizing mature technology
	- Human resources cost effective
What are the key	- Maintenance cost
weaknesses of the GP	 Initial health-care professional's phobia of technology.
project? (max. 500	- Communication overheads are very high and costly in human and
<u>characters</u>)	monetary terms.
	- Difficulty of coordination.

Basic conditions for successful transfer

Why is this GP project	Tele-Hippocrates could easily be transferred and adapted for rehabilitation,
transferable? –	monitoring and training that are required for other (chronic) health problems and
innovation, impact,	diseases.
financial, legal, and	Tele-Hippocrates utilizes mature and secure networking technologies to transfer
timeframe aspects	video, sound and patient data in real time. Medical device communication is
	supported over secure communication channels.





What are the basic	No specific conditions since we are addressing EU countries. For resilient
conditions the region	networks the applicant must establish a satellite high bandwidth subscription.
needs to have to be	
successful in transferring	A specific Call for proposals targeting National/Regional/Community Social e-
this good practise? (max.	services provision/innovation could easily host such a project at any member
500 characters)	state's national or regional level. Prerequisite would be the political will after
	definition of relevant needs.
What are the basic	- Dedicated Team of Health Professionals
conditions the leading	- Strong IT Team
conditions the leading recipient from the region	- Strong IT Team
	- Strong IT Team
recipient from the region	- Strong IT Team
recipient from the region needs to have to be	- Strong IT Team

Key threats in GP project transfer

What are the key potential	-	Patient familiarization with technology - Personnel training.
threats for the GP project	-	Trust issues of patients and personnel in IT.
transfer? (max. 2000	-	Difficulties in cooperation among involved actors.
<u>characters</u>)		

4. Description of the GP project

The "Description of the GP project" section provides more detailed information on the Good Practice project (GP project) and enables readers to get further detailed inspiration and easy ready-to-use information for possible innovation transfer to other project applications. This includes: tackled problem, time length of the GP project, objectives, phases, activities and deliverables of the GP project, its main innovation and target group.

Description of the tackled problem

What was the problem /	High quality medical support to patients with chronic deceases and especially
challenge tackled by the	those with the need of mechanical ventilation. This target group needs
project? (max. 2000	continuous monitoring and treatment by multidisciplinary healthcare
<u>characters</u>)	professionals. To achieve that the patient must either be hospitalized or admitted
	to a healthcare facility or visited at home by a multidisciplinary healthcare
	professional team. Both options have several cons such us: High cost, patient
	isolation from family, psychological impact to the patient and limited monitoring.
	In contrast to the above solutions an alternative is to utilize state of the art
	communication technologies to deploy tele monitoring and tele consulting at





	home.
What were the reasons for	The insular character of the Greek territory and the feeling of isolation,
the problem? (max. <u>2000</u>	particularly in the mountainous and insular areas, led to the need for
<u>characters</u>)	improvement of the services provided and especially of the services in the field of
	health, with the support of new technologies and tele-medicine

Time length of the GP project

What was the time length	24
of the GP project in	
months?	

Objectives of the GP project

Describe the overall and	The objective of the project was
specific objectives of the	 the planning and the development of telemedicine services that will aim at the service of Region of North Aegean residents' needs, particularly
GP project (max. 2000	with regards to situations of urgent medical care. These services
<u>characters</u>)	constituted in the base of modern technologies of electronic health.

Phases, activities and deliverables

List all main phases of the	- User specific requirements
GP project including their	- System design and specifications
time length	- Procurement and Development
	- Testing and Evaluation
List and describe all main	- Elaboration of a study on the implementation and the analytical
activities that were	presentation of the specifications and standards for the project.
implemented by the GP	- Procurement of equipment (telecommunications material, informational
project (<u>max. 2000</u>	systems, etc) and construction of necessary infrastructures.
<u>characters</u>)	- Providing of Satellite - through EUTELSAT - and integrated broadband
	land (wired) infrastructure and services.
	- Training of clinical personnel
	- Cooperation for the development of tele-medicine applications among
	Hospitals, organizations that provide with health services and Medical
	Centers.
	- Know-how exchange on the design, development and management of
	health centers with the use of new technologies
	- Dissemination of results
List all main deliverables	- High level infrastructure with the creation of the broadband
of the GP project	communications.





- Connection of remote areas with hospitals through satellite and land (wired) networks.
- Improvement of disparities in the field of health.
- Establishment of permanent co-operation between Greece and Cyprus.

Main innovation of the GP project

What was the main	
innovation of the GP	
project? (max. 2000	
characters)	

- Designation of the e-services required through definition of needs by the use of quadruple helix method (organizations representing all helixes took part through open seminars, workshops and information events)
- Establish a communication channel between two major healthcare facilities in two different countries
- Knowledge transfer
- Patient continuous monitoring at home

Target group of the project

Who was the main target	- Severe chronic decease patients (eg Patients with mechanical ventilation
group of the GP project?	support) (Public institution)
(SME, LME, research	
organization, university,	
public institution,	
healthcare provider,	
business supporting	
organization, other	
(specify)	
Describe the main target	Patients with mechanical ventilation at home.
group (max. 2000	
<u>characters</u>)	

5. Impact

The "Impact" section provides more detailed information on the effect of the GP project implementation and dissemination of major outputs.

Impact

What was the level of	National level
geographical impact of	
the GP project? (village,	
city, county, country,	





international, other	
(specify)	
What were the final impact	The service has been functional since 2009. 18 patients at home with mechanical
indicators including their	ventilation are continuously monitored and supported. Nicosia's General Hospital
quantification? (max.	has established a team of multidisciplinary healthcare professionals to support
2000 characters)	the service. Mechanical ventilators are under maintenance support and the cost
	of treatment and care is covered by Public sector.
Describe the changes	The new technology has officially been adopted by the Nicosia General Hospital
resulted from the project	and is still being offered as a solution within the general health services provided
activities (max. 2000	by the organization.
<u>characters</u>)	

Dissemination of outputs

Describe dissemination activities of the project outputs carried out during the GP project (max. 2000 characters)	 Scientific papers and conferences Press releases Press conferences Banners and leaflets
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6. Risks

The "Risks" section provides more detailed review of potential risks of this GP project implementation including their defined mitigation strategies to eliminate them.

Describe risks involved in	- Commitment of the Policy Makers
implementing this GP	- Sustainability
project including their	- Adequate level of technological expertise
mitigation strategies	
(max. 2000 characters)	

7. Budget

The "Budget" section provides more detailed review of costs regarding the project implementation as well as operational sustainability after its end. In addition, if relevant, public tenders within the project and additional generated incomes by the project are showed and explained.





Budget

What was the overall	349.281,00 €
budget of the project in	
EUR?	
List relevant budget lines	Staff Cost - 15%
of the project including	Administration - 5%
their % share from total	Travelling - 12%
budget	Equipment - 40%
	External Expertise - 28%

Additional income generated by the project

Did the project create any	no, the GP project did not generate additional income
additional income?	
If yes, specify which type	
of income and what	
amount in EUR?	

Public tender

Did the project include any	yes, the project included a public tender
public tender?	
If yes, specify what kind of	- Contact for External Expert
contract (specific contract,	- Contract for Equipment Purchase (and software)
general contract, other)	
If yes, specify in what	- €140.000 for equipment
amount in EUR	- €98.000 for external experts
Describe the public tender	- Open Public Calls for Tenders with Terms and Conditions
subject (max 2000	
<u>characters</u>)	

Financial sustainability after GP project end

Was there an operational	yes, the GP project included an operational financial sustainability plan
financial sustainability	
plan in the project after its	
end?	
If yes, specify where the	Ministry of Health





operational funds after	
project end came from?	
If yes, specify the amount	€27.000 yearly
of operational funds in	
EUR	

8. Other information

In this section, specific additional information about the GP project could be revealed.

Please de	escribe any other
relevant i	information
about this	s GP project (if
relevant)	

9. Information gathered by ...

The information about this good practise (GP) project has been gathered for the purpose of the HoCare project (Interreg Europe Programme) by the following organization:

Region	Cyprus
Organization name(s) (+	Nicosia Development Agency (ANEL)
in local language in	Αναπτυξιακή Εταιρεία Λευκωσίας (ΑΝΕΛ)
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