

*Note: The information given in this document is still preliminary until partner contracts and funding allocations are finalised.*



## Project Information

<b>Project Short Name</b>	H@H
<b>Project Full Name</b>	Health@Home
<b>Project Reference</b>	aal-2008-1-082
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### Background of the Project

Among chronic conditions, cardiac failure is particularly relevant, attracting recently the attention of physicians and administrators, as it represents one of the most frequent causes of hospitalization, with a consequent relevant need of resources.

The H@H project idea originates from a regional Italian project named As.Ter. and coordinated by Caribel Srl. The As.Ter. Software Platform allows planning, controlling and monitoring of activities carried out from social and sanitary professionals (doctors, nurses, physiotherapists etc) operating on the territory. This product, which is compliant with HL7-RIM, is widely accepted and used in Italy since it has been adopted by nearly 20% of Italian public sanitary institutes.

H@H partners decided to modify the As.Ter. platform and integrate it with specific biomedical sensors and a home gateway in order to produce a telemonitoring system for delivering healthcare services at home for elderly citizens affected by CHF.

### Visions and Objectives of the Project

The H@H project aims at solving societal problems related to healthcare services for elderly citizens affected by Chronic Heart Failure (CHF), providing them with wearable sensor devices for monitoring of pathophysiological cardiovascular and respiratory parameters and, at the same time, enabling the medical staff to remotely supervise their situations and taking actions by involving public/private healthcare organizations. In Europe around 14 million citizens is affected by CHF with 3.600.000 new cases/year, representing the most common cause of hospitalisation in elderly persons. Previous experiences used to record weight, heart rate and blood pressure, using then telephone as data transmission support. Novel features of the H@H project, enabled by the developed ICT components, extend this approach by: (i) long-term monitoring of clinical parameters; (ii) new user-friendly systems to collect such data at home and (iii) new methods of data transmission and analysis. Prognostic prediction, patient quality of life, education and self-care, and cost-effectiveness in three European Countries (Italy, Spain and Slovenia) will be assessed, focusing on elderly people. As a final result, the project will develop the following prototypes: (a) a software platform for the recording and management of medical information for elderly affected by CHF taking into account emerging international standards (HL7-RIM and CEN 13606), (b) a monitor-based on "Expert System" solutions that will serve to visualize the level of criticality of the patient, (c) a comfortable and easy to use integrated system sensing main pathophysiological signals and able to provide data for tele-diagnosis to the centralised expert system. The proposed consortium has all the competences to face the ICT challenges. End-user will be involved both as elderly

patients and as HealthCare Organization, both will be keys for user's requirements definition and demonstration phases.

**Project Partners and Funding**

<b>Full name</b>	<b>Short name</b>	<b>Country Code</b>	<b>Type of Organization</b>	<b>Final granted budget in EUR</b>
Consorzio Pisa Ricerche	Cpr	IT	Research organisation	214.906
Caribel Programmazione Srl	Caribel	IT	Big company	237.937,50
Centro Andaluz de Innovación y Tecnologías de la Información y las Comunicaciones	Citic	ES	Centre of Innovation and Technology	100.743
CAEN AURELIA SPACE	CAEN	IT	SME	228.450
Fondazione Gabriele Monasterio	FGM	IT	Health institution	180.375
Mediasoft Ltd	Mediasoft	SI	SME	87.188
Hospitales Universitarios "Virgen del Rocío"	ROCIO	ES	Health institution	215.985
Zdravstveni dom Koper	ZDK	SI	Health institution	155.250
			<b>Total</b>	<b>1.420.834</b>