



HEARTFAID

**D7 – 2nd Quarterly Managerial
Report**

(MB and STAB meeting minutes)

Submission date: 14/09/06

Due date of document: 31/07/06



**Information Society
and Media**



HEARTFAID

A KNOWLEDGE BASED PLATFORM OF SERVICES
FOR SUPPORTING MEDICAL-CLINICAL
MANAGEMENT OF THE HEART FAILURE WITHIN
THE ELDERLY POPULATION

Project summary	
Project acronym:	HEARTFAID
Project identifier:	IST – 2005 – 027107
Duration of the Project:	01/02/2006 – 31/01/2009
Project Co-ordinator Name:	Domenico Conforti
Project Co-ordinator Organisation:	UNICAL University of Calabria (Italy)
Thematic Priority:	Information Society Technology-ICT for Health
Instrument:	Specific Targeted Research Project

Consortium
<ul style="list-style-type: none">➤ UNICAL- Università della Calabria (Italy)➤ UNICZ- Università degli studi Magna Graecia di Catanzaro (Italy)➤ UNIMIB- Università degli studi di Milano Bicocca (Italy)➤ JUMC- Jagiellonian University Medical College (Poland)➤ VMWS- Virtual Medical World Solutions Ltd (United Kingdom)➤ FORTHNET S. A.- Hellenic Telecommunications and Telematic Applications Company S. A. (Greece)➤ SYNAP- Synapsis s.r.l. (Italy)➤ CNR- Consiglio Nazionale delle Ricerche (Italy)➤ FORTH-Foundation for Research and Technology Hellas (Greece)➤ RBI- Rudjer Boskovic Institute (Croatia)➤ AUXOL- Istituto Auxologico Italiano (Italy)



D7 – 2nd Quarterly Managerial Report MB and STAB meeting minutes

Document summary	
Document Title:	2 nd Quarterly Managerial Report
Document Classification:	Deliverable D7
Dissemination level:	CO
Period covered:	From 1 May 2006 to 31 July 2006
Submission date:	14 September 2006
Due date:	31 July 2006
Authors:	Debora Minardi – UNICAL
Work package:	WP0 – Management
Report Version:	1.2

Short Description

This document describes the activities of the Consortium during the second 3 months of HEARTFAID project and its future activities.

Change Record

Version Number	Changes	Release date
1.0	First draft of the Document	27/07/06
1.1	Information from Consortium	30/08/06
1.2	Final draft	14/09/06

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Summary

Project objectives and achievements

The Second Quarterly Managerial Report aims to present the achievements and the activities of HEARTFAID Consortium during the second quarter of the Project as follows:

- Monitoring of financial and administrative issues
- Achievement of the definition of the medical and clinical requirements (see D5)
- Further study of Identification of Biomedical Signs and symptoms
- Definition of standards for data integration and service interoperability
- Start of activities related to Data Processing and Decision support services
- Further Dissemination Activities

The report focuses on ongoing Workpackages

- WP0 :Consortium Management
- WP1:Heart Failure Domain Analysis
- WP2: Biomedical Data Identification and Collection
- WP3 :Middleware, Interoperability and Integration
- WP5: Data Processing and Decision Support Devices
- WP8 :Dissemination and Exploitation

with a short overview on each WP on the status of tasks, deliverables and milestones due in this period and the ones due in the next interim activity report and an overview on the man month effort for each WP during the first 6 months of the project.

The last part of the report focuses on future activities and current dissemination.



Consortium Management: WP0

WORK PACKAGE: 0			
TITLE: MANAGEMENT			
START DATE: MONTH 1			
WORK PACKAGE LEADER: UNICAL			
PARTNER'S TOTAL MANPOWER IN THIS WP FOR THE FIRST 6 MONTHS			
Partner	Man Months effort		
UNICAL	2.0		
UNICZ	0		
UNIMIB	0.2		
VMWS	0.67		
FORTHNET	0		
SYNAP	0		
CNR	0.5		
RBI	0		
MEETING	PLACE	DATE	ATTENDANTS
STAB and MB Meeting	Crete	July 9-12 2006	All Consortium
UNICAL/UNICZ	Catanzaro	July 23 2006	UNICAL/UNICZ

STATUS OF TASKS DUE IN THIS PERIOD

TASK		COMMENTS
T.0.1	Overall management of the Consortium	On track
T 0.2	Co-ordination of the Consortium technical activities	On track
T 0.3	Management of contractual, legal, financial and administrative procedure of the consortium,	Internal Cost Statement form
T 0.4	Internal Communication infrastructure	Currently working on project web-site

STATUS OF DELIVERABLES DUE IN THIS PERIOD

DELIVERABLE	N°	DATE DUE	COMMENTS
2 nd Quarterly Managerial Report	D7	31 July 2006	Completed

FORECAST STATUS OF DELIVERABLES DUE IN THE NEXT 3 MONTHS

DELIVERABLE	N°	DATE DUE	COMMENTS
3 rd Quarterly Managerial Report	D10	31 October 2006	Foreseen to be completed on time

COMMENTS: During MB and STAB meeting in Crete all WP have been further defined and more technical details have been approved by the Consortium



Ongoing workpackages progress: WP1

WORK PACKAGE: 1				
TITLE: HEART FAILURE DOMAIN ANALYSIS				
START DATE: MONTH 1				
WORK PACKAGE LEADER: UNICZ				
PARTNER'S TOTAL MANPOWER IN THIS WP FOR THE FIRST 6 MONTHS				
Partner	Man Months effort			
UNICAL	5			
UNICZ	9			
UNIMIB	9			
JUMC	6			
AUXOL	9			
MEETINGS & ATTENDANTS		PLACE	DATE	ATTENDANTS
UNICAL/UNICZ		Catanzaro	July 23 2006	UNICAL/UNICZ

STATUS OF TASKS and MILESTONES DUE IN THIS PERIOD

TASK		COMMENTS
T 1.2	Problem statement and formulation of the relevant decision making problems	The task has been completed with D5
M.S.1.1.	Identification of medical-clinical requirements and relevant decision making problems	This milestone has been achieved with D 5 (see section 8)

STATUS OF DELIVERABLES DUE IN THIS PERIOD

		DATE DUE	COMMENTS
DELIVERABLE	N°		
Medical-Clinical processes and requirements in HF domain and formulation of the decision making problems	D 5	Month 5	Achieved

FORECAST STATUS OF DELIVERABLES DUE IN THE NEXT 3 MONTHS

		DATE DUE	COMMENTS
DELIVERABLE	N°		
Definition and formulation of the organization and management models for the healthcare delivery	D 8	Month 8	The deliverable is foreseen to be completed on time

FORECAST STATUS OF TASKS and MILESTONES DUE IN THE NEXT 3 MONTHS

TASK		COMMENTS
T 1.3	Organization and management models for the healthcare delivery	The task has been started
M.S. 1.2	Definition of new models for healthcare delivery processes	Foreseen to be achieved on time

COMMENTS: No corrective action or deviation has occurred so far

Ongoing workpackages progress: WP2

WORK PACKAGE: 2	
TITLE: BIOMEDICAL DATA IDENTIFICATION AND COLLECTION	
START DATE: MONTH 3	
WORK PACKAGE LEADER: VMWS	
PARTNER'S TOTAL MANPOWER IN THIS WP FOR THE FIRST 6 MONTHS	
Partner	Man Months effort
UNICAL	1
UNICZ	0
UNIMIB	1
JUMC	0
VMWS	14.63
FORTHNET	13
SYNAP	4
AUXOL	0

STATUS OF TASKS DUE IN THIS PERIOD

TASK		COMMENTS
T 2.1	Identification of all biomedical data, signs and symptoms relevant to the hearth failure pathology	The task has started at M3 and the partners are in a good progress towards the definition of all the BM signs and symptoms. The progress of the task is in line with the objectives of the work plan.
T 2.2	Design and development of the data Acquisition and Transmission Infrastructure	The task has started at M3. Each partner has performed a study of the enabling technologies related to the design of the data acquisition and transmission infrastructure. Furthermore, some generic software modules that will enable the data acquisition and transmission are being developed. There are no unforeseen delays or deviations from the work plan.

FORECAST STATUS OF TASKS AND DELIVERABLES DUE IN THE NEXT 3 MONTHS

TASK		DATE DUE	COMMENTS
T 2.1 Identification of all BM signs and symptoms			In the next 3 months the partners will have defined all the BM signs and symptoms. Furthermore, this process will lead to the definition of the sensors/devices which will be used for the data acquisition
T 2.2 Design and development of the data acquisition and transmission infrastructure.			In the next 3 months the partners will define the programming interfaces and data formats that will be applied for data transmission. Transmission of dummy data will be performed in order to ensure the proper functionality of the data transmission process. In the end of this period, the sensors/devices are expected to be defined and the partners will start the integration of these sensors/devices in the data acquisition infrastructure.
DELIVERABLE	N°		
Specifications of all biomedical data, signs and symptoms relevant to the hearth failure	D 9	Month 8	Foreseen to be completed on time



Ongoing workpackages progress: WP 3

WORK PACKAGE: 3	
TITLE: MIDDLEWARE, INTEROPERABILITY AND INTEGRATION	
START DATE: MONTH 2	
WORK PACKAGE LEADER: SYNOPSIS	
PARTNER'S TOTAL MANPOWER IN THIS WP FOR THE FIRST 6 MONTHS	
Partner	Man Months effort
VMWS	0
FORTHNET	0
SYNAP	7
CNR	0,3
FORTH	0

STATUS OF TASKS DUE IN THIS PERIOD

TASK		COMMENTS
T 3.1	Middleware requirements and functional specifications	The activities of this Task, stated at M2, continued during this quarterly and are expected to end within M11, inline with the Gantt of the Project. The requirements and functional specification identified during these early stages of the task represent already a significant input to the activities of the connected Task T3.3.

FORECAST STATUS OF TASKS DUE IN THE NEXT 3 MONTHS

TASK		COMMENTS
T 3.2	Identification of the clinical standards for representation and communication of data	Task T3.2 is going to start on month M8, inline with the Gantt of the Project
T 3.3	Integration middleware	The subtask 3.3.1 has been started at month M6, inline with the Gantt of the Project. Early results are expected after the first year of the project lifetime.
T 3.4	Interoperability Middleware	Task T3.4 is going to start on month M8, inline with the Gantt of the Project

COMMENTS: Working meetings with CNR in Pisa regarding the definition of HF scenarios and workflow

Ongoing workpackages progress: WP 5

WORK PACKAGE: 5		
TITLE: DATA PROCESSING AND DECISION SUPPORT DEVICES		
START DATE: MONTH 5		
WORK PACKAGE LEADER: CNR (30MMS)		
PARTNER'S TOTAL MANPOWER IN THIS WP FOR THE FIRST 6 MONTHS		
Partner	Man Months effort	
UNICAL	0	
UNICZ	0	
SYNAP	0	
CNR	4.0	
FORTH	0	
RBI	6	
STATUS OF TASKS DUE IN THIS PERIOD		
TASK		COMMENTS
T 5.1	Identification of representation features for signals and images processing	Analysis of the activities required by the task, and of the relations and interplay with other tasks. Task scheduling and identification of task leader. Examination of the ESC and ACC/AHA Guidelines in order to identify and extract signals, images and parameters useful for diagnosis and monitoring. Study of models and processing techniques applicable to analyse the HF data. First tests on algorithms developed for quantitative measuring on cardiac MRI sequences.
T 5.3	Requirements and functional specification of the Decision Support System	Analysis of the activities required by the task, and of the relations and interplay with other tasks. Task scheduling and identification of task leader. Discussion and individuation of the DSS functional requirements, supported by the analysis of the HF scenarios and the identification of the HF cycle consisting in <i>measurements, analysis, decisions</i> and <i>actions</i> . Extensive investigation of the technologies and methodologies SOAs for the development of a Clinical Decision Support System. Study and analysis of the CDSS design issues, in particular of problem domain investigation, knowledge representation and inference engine development. Examination of the available open-source instruments for supporting the CDSS development activity
OTHER ACTIVITIES		
Discussion with Synapsis about DSS requirements (Livorno)		

Ongoing workpackages progress: WP8

WORK PACKAGE: 8	
TITLE: DISSEMINATION AND EXPLOITATION	
START DATE: MONTH 1	
WORK PACKAGE LEADER: UNICAL	
PARTNER'S TOTAL MANPOWER IN THIS WP FOR THE FIRST 6 MONTHS	
Partner	Man Months effort
UNICAL	0.5
UNICZ	0
UNIMIB	0
JUMC	0
VMWS	0
FORTHNET	0
SYNAP	0
CNR	0.25
FORTH	0.14
RBI	0
AUXOL	0

STATUS OF TASKS DUE IN THIS PERIOD

TASK		COMMENTS
T 8.1	Dissemination Activities	Contribution from <ul style="list-style-type: none"> • UNICAL • CNR • JUMC • FORTH (see prospect on next page for details) More details about all Consortium Planned Dissemination Activities available on Deliverable D6

STATUS OF DELIVERABLES DUE IN THIS PERIOD

DELIVERABLE	N°	DATE DUE	COMMENTS
Early Plan for Using and Disseminating Knowledge	D 6	Month 6	Completed

USE AND DISSEMINATION

Date	Channel	Event	Place/ Country	Partner responsible	Nature and size of audience
June 7th 2006	Conference	International Council for Medical Care and Compunetics (ICMCC)	The Hague /Netherlands	VMWS/UNICAL	Physicians, doctors, computer scientists , experts in medical domain, 50 attendants
June 29-30 2006	Conference	Information Communication Technologies (ICT) for Bio-medical sciences 2006	Brussels / Belgium	UNICAL	Project coordinators, professionals related to EU projects 200 attendants
July 10-20th 2006	Workshop	Mathematics and Medical Diagnosis	Erice /Italy	UNICAL	Mathematicians and experts in machine learning 50 attendants
July 13th 2006	Workshop	“Mass-Data Analysis of Images and Signals”	Leipzig/Germany	CNR	Computer scientists, physicists, mathematicians and engineers 40 attendants

Future activities until next quarterly report month 9

ACTIVITY	Partner Responsible	DATE/PLACE	COMMENTS
Start Of WP 4 Month 8	RBI	1st November 2006	WP will start on time
Conference	FORTH	Valencia, September 2006	Computers in Cardiology 2006
Conference	FORTH	Athens, October 2006	Meeting on BioInformatics and Medical Informatics organized by the Academy of Athens, Foundation for Biomedical Research
Conference	FORTH	Ioannina, Greece, October 2006	The International Special Topic Conference on Information Technology in Biomedicine
Meeting of Polish Cardiac Society – Section in Krakow	JUMC	Krakow, 23 rd October	Oral Presentation introducing the HEARTFAID platform during the heart failure session. Participants of the meeting – about 200 physicians, mostly cardiologists
MB & STAB MEETING	CNR/SYNAPSIS	Tuscany 5-12 November 2006	The meeting will be jointly hosted by Synapsis and CNR