



Contract No. 004420

eu-DOMAIN - enabling users for
Distance-working & Organizational Mobility
using Ambient Intelligence Networks

D1.2.1 Period 3 Activity Report

Specific Targeted Research or Innovation Project

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Duration 36 months

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1. Introduction

This report is the eu-DOMAIN activity report for the project's third formal reporting period, Period 3: 1st June 2006 to 31st May 2007. It should be read in conjunction with the corresponding eu-DOMAIN D.1.2.3 Management Report for the same period. For clarity some information is duplicated in both reports.

This activity report encompasses a publishable executive summary, the project's progress against its objectives, workplan and management aims.

2. Executive summary

2.1 eu-DOMAIN aims and objectives

The aim of the eu-DOMAIN project is to develop a new, innovative European ambient intelligence service platform which will interconnect people, devices, buildings and content in an interoperable network and open up entirely new ways of working in collaborative work environments.

An estimated 12 million Europeans travel everyday across Europe working outside their normal workspace. eu-DOMAIN will dramatically improve their ability to deliver quality services, increase the competitiveness and visibility of their host organisations and generally improve the quality of life for Europe's citizens.

European impact

Strategic impact: eu-DOMAIN places European companies at the forefront of ambient intelligent technologies *providing potential to significantly increase the competitiveness of European businesses*. It provides SMEs with an easy-to-deploy strategic platform allowing them to drastically improve time-to-market of their products by simply renting access to the platform from service providers.

Economic impact: eu-DOMAIN integrates a number of emerging technologies in an infrastructure and set of applications and services. The scenarios being validated are in the eBusiness and eHealth domains but the results will have wider applicability in many other domains. *A platform that improves the efficiency and effectiveness of a market of this size must by definition have a major impact at the European level*. Citizen users will similarly realise both economic and social benefits as a result of their more efficient and effective interaction with all types of organisation using eu-DOMAIN.

Business innovation: An integral part of the project is the analysis and development of realistic business models for users and service providers. *New research into defining and measuring value creation in web service networks will lead to innovative business structures involving content providers and service providers in collaborative systems*. Specific emphasis will be made on identifying new business opportunities for SMEs. Governments, especially in the healthcare and social services area, will be provided with a platform for delivering public services directly to the citizens' homes with enormous potential for improving quality and reducing costs.

Results exploitation

The intention is to establish eu-DOMAIN as a new joint-venture stand-alone business available to potential users throughout Europe initially, and then potentially worldwide. *It is expected that the joint venture will cover sufficient technological ground to be able to offer and operate a complete Europe-wide eu-DOMAIN platform*.

In addition to participation in the joint venture, the eu-DOMAIN partners will also be able to exploit the knowledge gained from participation to improve their consultancy services and/or research activities to all types of private and public sector organisations who are interested in exploiting emerging technologies to implement new and better ways of working.

Validation scenarios

Two innovative user scenarios have been defined to demonstrate the systems potential: In the field of *industrial pumps* the focus is '*Serving your every need!*': Combined with eu-DOMAIN, the basic product function of a pump will shift from simply moving water (or fluids) to be an integral, maybe even a crucial part, of the customer's solution. The pumps are "serving

you – wherever you are – whatever you do – whenever you want it”.

In the field of *Healthcare* the focus is '*Patients as customers*': *A variety of new methods, devices and medication are available from various service providers, each of them offering their services to an informed patient - sometimes in competition; sometimes in cooperation. The patient chooses the providers that are most suited to their needs supported by eu-DOMAIN technology.*

Approach

eu-Domain will realise its vision by developing a working example of 'Ambient Intelligence' infrastructure, combining state-of-the-art communications, decision support, semantic web and location-based technologies.

It will pave the way for its commercial deployment through the development of realistic business models for users and service providers.

The project's work is divided into five phases covering:

- Project coordination processes
- Research and development,
- Prototyping and system integration
- User testing and uptake
- Dissemination and exploitation.

Technology innovation

The main technological innovation in eu-DOMAIN lies in its 3-tier hierarchical client-server structure with multilevel distributed, configurable intelligence pools. This structure supports the wealth of different applications, which can be integrated into the Europe-wide ambient intelligence service network.

Another very innovative feature is self-configuring devices that use semantic agents to search for configuration set-up, protocols and user interfaces. Application specific intelligence pools perform intelligent adaptation and user set-up, tailored to the users precise needs in the actual real-world situation.

A further innovative feature of eu-DOMAIN is the web based service-provisioning platform, which allows any service provider (industrial, healthcare, government, etc.) to deliver web services to people and devices in any location across Europe.

2.2 Project participants

The eu-DOMAIN consortium has an excellent insight into the state of the art in this field. It encompasses highly skilled organisations with a wealth of experience necessary to the project's management, technical and business requirements. The consortium is:

- Functionally comprehensive with a very full and sound balance between user, technical and managerial expertise with clear and relevant roles established for each consortium partner; and;
- Skilled and experienced in the projects business and technical requirements with the projects requirements for user input well covered across the focus sectors of Building Facility Management and eHealth Services.

It is nationally and culturally diverse with partners from 6 European countries who conduct their business across Europe and beyond, providing a clear understanding of the dynamic business, sociological and cultural characteristics of its potential market place. The consortium partners are:

Contractors:

Participant	Role	Country	Expertise
C International Ltd (CIL)	Coordinating Partner	United Kingdom	Extensive experience of managing IST and other multi-partner projects. Substantial prior involvement in testing implementation and evaluation activities and substantial experience in business modelling.
Innova S.p.A. (INNOVA)	Partner	Italy	Long experience in bringing new technology to SMEs. Experience in conduction European Awareness Scenario Workshops (EASW) and substantial knowledge of Socio-economic issues in relation to technology deployment.
In-JeT ApS (IN-JET)	Partner	Denmark	Considerable knowledge on frameworks for ambient intelligence and web services. Also in business modelling and building business cases.
University of Aarhus, Dept of Computer Science (UAAR)	Partner	Denmark	Substantial scientific knowledge of software architectures and system analysis. Experience in gateway technology and OSGi frameworks and substantial scientific knowledge of trust and security analysis.
FORTH (FORTH)	Partner	Greece (Crete)	Expertise in all aspects of system design for healthcare. Substantial expertise in eHealth devices and extensive expertise in EPR and ICRS systems.
CNet Svenska AB (CNET)	Partner	Sweden	Extensive experience in XML based content and web service application development. Substantial knowledge in web-based meta data creation for the construction industry. Experience in interactive environments for geographically distributed organisations.
T-connect S.r.l. (T-CON)	Partner	Italy	Experience in wireless broadband technologies. Substantial knowledge of deliveries of personalised services via wireless networks.
Software AG (SAG)	Partner	Belgium	Leading vendor of XML technology and solutions. Substantial experience in web services and content management. Comprehensive experience in mobile computing.
Telefónica I+D (TID)	Partner	Spain	Substantial experience in intelligent network and services creation on broadband. Comprehensive skills in artificial intelligence and software engineering. Experiences in real time systems and databases and knowledge bases.
Grundfos (GMA)	User	Denmark	Grundfos is one of the world's leading pump manufacturers and has decades of know-how about pumps and pump systems and is a typical case of a European Service Network user.
Eastern Birmingham Primary Care Trust (EBPCT)	User	United Kingdom	The PCT has extensive experience in commissioning hospital services as well as providing community services and running emergency services and is a typical case of a Healthcare for tomorrow user

Additional supporting participants:

CONTRIBUTOR - ALEXANDRA INSTITUTE, Denmark;

SUBCONTRACTOR - ACIT GMBH, Germany;

SUBCONTRACTOR – LIWAS APS, Denmark.

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2.3 Progress to date

As the eu-Domain project completes its third, and final, formal reporting period covering June 2006 through to May 2007, the project has achieved its set objectives and is currently on schedule to complete its activities to plan.

The project has seen sound progress during the period with:

- The completed integration of the eu-DOMAIN client and server software.
- The eu-DOMAIN communications infrastructure in place.
- The technical and functional testing of the overall platform completed in the context of the ESN and Healthcare scenarios.
- The validation of both the ESN and Healthcare scenarios
- The dissemination and use plan updated and the already established dissemination programme intensified, with an enhanced project website.
- A completed project evaluation and assessment.

The project has progressed under its sound organisational framework with each and every consortium partner playing a significant role in the project and deploying their skills and experience to maximum effect.

The project was completed on 14th June 2007.

3. Project objectives and achievements for reporting period

3.1 Main achievements summary

This third formal reporting period (twelfth quarterly reporting period) for months 25 to 36 of the eu-DOMAIN project has seen good progress being made with the set objectives for the period being achieved. This final 12 months of the project has seen:

- Completion of the communications infrastructure set up
- Success in achievement of systems integration goals
- Validation of both ESN and Healthcare tomorrow based on two scenarios
- Updated dissemination and use plan
- Final project evaluation and assessment

Final project completion was achieved on 14th June 2007

3.2 Progress in implementation of the 'Description of Work' / Problems encountered

The project's workplan has progressed largely as intended. The delay in business modelling activities reported at the close of period 2 filtered through into period 3, where as a result of difficulties in obtaining participation in the healthcare validation workshop, a decision was taken to add a further workshop into the programme. The need to sustain high levels of user involvement had an impact on the timescales for workpackages 7 and 8. The delays encountered have not impacted on the final completion of the project.

3.3 Objectives achievement

eu-DOMAIN has achieved its aimed objectives for this reporting period with progress against these as follows:

<i>Objectives</i>	<i>Progress towards achieving objectives</i>
<input type="checkbox"/> Progress the project's operational project management	<ul style="list-style-type: none"> • The project has progressed under its sound managerial framework. Each and every project partner has played their full role in the project, with completion to final project dates
<input type="checkbox"/> Complete set up of communications infrastructure	<ul style="list-style-type: none"> • The completion of the network set up was due this period
<input type="checkbox"/> Develop business models for eu-DOMAIN deployment	<ul style="list-style-type: none"> • Work has progressed on summarising validated business models. With difficulties experienced with gaining participation in the healthcare validation, a decision was made to hold a third workshop (not in DoW), in Italy in August
<input type="checkbox"/> Continue systems integration	<ul style="list-style-type: none"> • Concentrated work has been underway here, with technical testing, testing and user scenarios and preparation of validation plans

❑ Testing and validation	• Completed validation in two domains and demonstrator for final review
❑ Progress the project's dissemination framework	• Dissemination activities have been continued by the partners in line with the project's Dissemination and Use Plan
❑ Continue ongoing and final project review	• Ongoing assessment and evaluation of the project's performance has continued and final assessment completed

4. Workpackage progress of the period

4.1 Work progress

The project's workplan has progressed broadly as intended with the scheduled tasks and deliverables completed to plan. There have been no issues or unexpected problems that have impacted the project's work schedule or its related costs or quality.

An updated project Gantt chart illustrating current progress is provided in Section 5.

<i>Work Package</i>	<i>Activity status</i>
WP1 Project Management	
T1.2 Operational Project Management and T1.3 Project reporting	This has been ongoing throughout the reporting period. Project technical meetings were held in quarters 10 and 11, and activity related to the second and final annual project reviews.
WP5 Communication infrastructure	
T5.1 and T5.2 Set up communications network	Communications network set up complete.
WP6 Socio-economic issues	
T6.1 Business modelling	Validated business models and business cases - was completed in September, with a revised business case prepared as a result of the recommendations of the second annual review.
T6.2 European awareness scenario w/shops	EASW public reports complete.
WP7 System integration	
T7.1 Integration of systems components	Extensive work on defining and achieving integration goals for the demonstrator to be ready for the annual review.
T7.3 Testing and user scenarios	Formulation of scenario components for demonstrator 3, Liferay portal server installation and tested.
T7.4 Validation plans	During the 2nd review meeting and in the next months some criteria and appropriate methods for user testing have been suggested, taking into account that the users have to be involved strongly in the validation phase. A user-centred approach has been applied, indeed, throughout the entire project.
WP8 Testing and validation	
T8.1 Validation of ESN	A validation scenario has been developed with GMA, and implemented.
T8.2 Validation of Healthcare tomorrow	A validation scenario has been developed with EBPCT, and implemented.
T8.3 Preparation for exploitation and take-up	Demonstrator platform for 3 rd annual review completed. A revised business case is included in D8.2 and definitions of responsibilities between eu-DOMAIN and service providers ICT systems included in D8.4. Completion of D8.3.
WP9 Dissemination & exploitation	

T9.1 Dissemination	Ongoing enrichment of website. Final plan for using dissemination knowledge issued.
T9.2 Exploitation	Final exploitation plans complete.
WP10 Review and assessment	
T10.1 and T10.2 On-going project review and final assessment	Evaluation of work against the set objectives of the project.

4.2 Milestones

The project's target milestones for this reporting period have been attained and are shown in the following table:

<i>Milestone</i>	<i>Planned month</i>	<i>Actual month</i>	<i>Comments</i>
M1.1 Acceptance of the consortium agreement by all partners.	1	3	
M1.2 PID produced for kick off meeting.	2	1	Project successfully initiated – kick-off meeting 21 st & 22 nd June 2004.
M1.3 Timely issuance of a Quality Manual to be used in all parts of the project and in all project material.	3	3	
M1.4 Timeliness of the planned reviews.	From 5		Expected to be attained to schedule
M1.5 Final project report produced.	36	36	Expected to be attained to schedule
M2.1 Scenarios identifying key technological, socio-economic and business drivers for future technological development have been established and show no adverse impact on the overall concept of the eu-DOMAIN infrastructure.	3	4	Eight scenarios developed and two identified for implementation and validation.
M2.2 The comprehensive set of user requirements specifications based on users behaviours and simulated interaction infrastructure ensuring its market exploitation and social acceptance	6	6	Specifications successfully derived. Social acceptance to be included in validation work.
M3.1 Software architecture is defined in UML with no major points of conflict with user requirements.	9	9	Architecture defined. To be validated in first demonstrator.
M3.2 OSGi framework is operational with testing bundles	18	18	OSGi Framework completed.
M3.3 Entire client side infrastructure is operational and can be integrated with the	21	21	Completed on schedule

server side structure.			
M4..1 Software architecture is defined in UML with no major points of conflict with user requirements.	9	9	Architecture defined. To be validated in first demonstrator.
M4.2 Entire server side infrastructure is operational and can be integrated with the client side structure.	20	20	Completed on schedule
M5.1 System architecture approved.	18	18	Completed on schedule
M5.2 Network access approved.	18	18	Completed on schedule
M5.3 Entire communication infrastructure is operational and can be integrated with the server and client side structure.	26		
M6.1 Successful business cases for each of the two user scenarios.	15	22	Delayed but complete
M6.2 Successful organisation of European Awareness Scenario Workshops with at least 15 participants in each event.	21	21	
M7.1 Infrastructure testing successful	28		
M7.2 Testing and population of user cases successful	31		
M8.1 User acceptance of the two user cases	35		
M8.2 At least two potential new users from different domains have emerged and are planning new tests.	35		
M9.1 Project presentation completed.	3	2	
M9.2 Inaugural conference held	2	1	
M9.3 Plan for disseminating and using knowledge.	6	6	
M9.4 Final plan for disseminating and using knowledge	35	36	
M10.1 Draft evaluation updated at completion of each workpackage.		36	
M10.2 Project fully evaluated	36	36	

4.3 Deliverables

The scheduled deliverables for this reporting period have been completed and are shown below.

<i>Deliverable</i>	<i>Planned month</i>	<i>Completed month</i>	<i>Comments</i>
D1.1 Project Quality Plan	1	3	Delivered with progress report QMR1 for first reporting period

D1.2	Periodic activity, management and financial reports	12+24+36	12+24+36	
D1.3	Quarterly progress reports for the commission	3 thru 33	3 thru 33	
D1.4	Final project report - activity, management and financial (draft & final versions)	35 & 36	36	
D2.1	User validation framework plan	3	4	Delivered with progress report QMR1 for first reporting period
D2.2	State of the Art analysis	4	4	Delivered with progress report QMR1 for first reporting period
D2.3	Functional user requirements specifications	6	6	Delivered with progress report QMR2 for second reporting period
D2.4	Trust and security user requirements specifications	6	6	Delivered with progress report QMR2 for second reporting period
D2.4A	Annex to trust and security requirements	18	18	Recommended by first annual review report. Delivered with progress report QMR6.
D2.5	Societal user requirements specifications.	6	6	Delivered with progress report QMR2 for second reporting period
D2.5A	Annex to societal requirements	18	18	Recommended by first annual review report. Delivered with progress report QMR6.
D2.6	Workflow procedures and potential for innovation	6	9	Delivered with progress report QMR3 for third reporting period (months 6 – 9)
D3.1	Client side architecture specification	9	9	Delivered as combined deliverable with D4.1 with progress report QMR3 for third reporting period (months 6 – 9)
D3.2	Gateway OSGi framework and device communication	18	18	Delivered with progress report QMR6.
D3.3	Design guides and navigation for device interaction	21	21	Delivered to schedule
D4.1	Server side architecture specification	9	9	Delivered as combined deliverable with D3.1 with progress report QMR3 for third reporting period (months 6 – 9)
D4.2	Design Guidelines for user interfaces	9	9	Delivered with progress report QMR3 for third reporting period (months 6 – 9)

D4.3	Network intelligence, database and user interfaces	20		Delivered to schedule
D4.4	Application intelligence and web service provisioning	22		Delivered to schedule
D5.1	Communication architecture description	21		Delivered to schedule
D5.2	Prototype of communication infrastructure	26	36	Some delay. Report awaited
D6.1	Proposed business models and business cases	15		Delayed but complete
D6.2	Organised European Awareness Scenario Workshops	22		Complete
D6.3	Public reports from the EASW Workshops	22		Complete
D6.4	Validated business models and business cases	22	28	Completed September 2006
D7.1	Test report of prototype platform	31	36	Some delay
D7.2	Testing platform for validation	31	36	Some delay
D7.3	User validation plan for eu-DOMAIN	31	34	Some delay
D8.1	Validation report: The European Service Network	35	36	Some delay
D8.2	Validation report: Healthcare for tomorrow	35	36	Some delay
D8.3	Evaluated platform for take-up activities	35	36	Some delay
D8.4	Take-up guideline and technology watch report	35	36	Some delay
D9.1	Project presentation	2	3	Delivered with progress report for first reporting period
D9.2	Project website	2	2	www.eu-domain.eu.com
D9.3	Plan for using and disseminating knowledge (drafts at 6 month intervals)	6 thru 32	36	Versions delivered with progress report QMR2, QMR4 and QMR6. Further version delivered at close of project
D9.4	Final plan for using and disseminating knowledge	35	36	Slight delay
D9.5	Raising public awareness report	35		To merge with D9.4

D9.6	Exploitation plans (Draft and final)	16 and 34	36	The first draft was finished 17 August 2005 (M15) and an exploitation team formed. The preliminary version was completed on 2 June 2006.
D10.1	Evaluation & assessment report	12+24+35	36	Complete

4.4 Deviations from Plan

There are no deviations from plan that affect the projects objectives, completion date or resources.

As stated above, the delay in business modelling activities reported at the close of period 2 filtered through into period 3, where as a result of difficulties in obtaining participation in the healthcare validation workshop, a decision was taken to add a further workshop into the programme. The need to sustain high levels of user involvement had an impact on the timescales for workpackages 7 and 8. These delays have been managed within the overall timeframes of the project.

4.5 Dissemination

eu-DOMAIN has followed its schedule for third year dissemination and has completed dissemination activity as planned:

- The project's dissemination and use plans have been updated and implemented as a series of dissemination activities
- A project 'Flyer' has continued to be used to publicise eu-DOMAIN
- The project website has continued to be operational and a dissemination contact list put in place.
- A range of presentations have been made at a variety of workshops and other events pertinent to the ambient intelligence research, industrial and healthcare arenas
- Peer contacts have been instigated with a number of projects and organisations in order to explore clustering possibilities
- Articles for peer-reviewed scientific journals are being prepared for publications in the coming reporting period

The following table illustrates some of the above activities:

<i>Date</i>	<i>Title</i>	<i>Description</i>
14 June 2006	Conference on Denmark's mobile and wireless future	Technological council reporting on future technologies including mobile healthcare solutions

<i>Date</i>	<i>Title</i>	<i>Description</i>
16 June 2006	Danish Federation of Industries	Presentation of eu-DOMAIN to leading companies in the field of mobile technologies
26-27 June 2006	The Fifth International Conference on m>Business	A paper was presented at this event. The topic of the paper is value modelling in industrial markets
6 September 2006	Danish National FP7 kick-off meeting	1100 persons attended. IN-JET invited to give a presentation of experiences from Fp6 including eu-DOMAIN
23 October 2006	Presentation at clinical workshop organised by Danish Federation of Industries	High level workshop on future and emerging technologies for health care. IN-JET presented the eu-DOMAIN platform
26-28 October 2006	Paper published in the proceedings of the ITAB 2006 conference (sponsored by IEEE)	The title of the paper is "Ambient Intelligence Support for Tomorrow's Health Care: Scenario Based Requirements and Architectural Specifications of the eu-DOMAIN Platform" Authors: F. Chiarugi, G. Zacharioudakis, M. Tsiknakis, J. Thestrup, K.M. Hansen, P. Antolin, J. Camara Melgosa, P. Rosengren, J. Meadows
21 – 23 November 2006	IST 23006 in Helsinki	Participation in the bi-annual IST 2006 conference in Helsinki
13 December 2006	CSI Wireless Theme Day	50, presentation UAAR
19 February 2007	IST course on EU projects	36 attendees from academia and industry in Denmark
26 February 2007	Innovation workshop at Danish Federation of Industries	10 attendees seeking collaborative innovation projects
1 March 2007	Aarhus Trade Council meeting	Presentation of eu-DOMAIN as platform for ICT and the Aging projects
20 March 2007	SISU Event	A seminar for 60 experts on semantic technology will be organised in Stockholm for former employees of Swedish Institute of Systems Development. The work and outcome of EU-Domain will be presented and discussed during the seminar

5. Consortium management

5.1 Contractual

No contractual issues have arisen during the course of the third reporting period.

5.2 Coordination and work schedule

It can be seen from Section 3 of this report that good progress has been made against the project's workplan and towards achieving the projects aims and objectives. An updated project GANTT chart showing current progress is shown under 5.5 below.

The project deliverables due in the third reporting period have been completed and the resource usage and costs incurred are running in line with the project schedule and activities undertaken. Project resource usage is shown under 5.3 below.

The project partners have worked closely together and supported each other in a highly professional and committed manner. Excellent liaison between the project partners and wider audience has been maintained throughout the past 12 months and a number of project meetings and workshops have been held, including:

<i>Title</i>	<i>Data and Place</i>	<i>Main conclusions</i>
Coordination meeting	5 June 2006, Aarhus	Integration planning
Validation Workshop (healthcare)	23 August 2006, Palmanova	Validated healthcare scenario in Italy
Technical meeting	5-8 September 2006, Madrid	
Technical meeting	4-5 September 2006, Madrid	The integration of demonstrator 2 progressing well and remaining task was assigned
Technical meeting	27-28 September 2006, Madrid	Preparation for the 2 nd annual review meeting
2 nd Annual Review Meeting	29 September 2006, Madrid	Review successfully undertaken
Board and Technical meeting	18 December 2006, London	The integration of demonstrator 3 was discussed and tasks were assigned
Integration Workshop	8 – 9 February 2007, Bruxelles	Walk-through of demonstrator 3 and remaining task assigned. Discussion of ESN validation scenario
Board and Technical meeting	1 April 2007, Trieste	Preparation for the 3 rd annual review meeting
Technical meeting	3-4 April 2007, Trieste	Discussion and development of ESN/PAC validation software
Final Review meeting	14-18 May 2007, Valladolid	

5.3 Project Effort

The following table shows resource usage for each partner during this reporting period, to 31st May 2007.

Contractor	RTD / Innovation										Manage	Total
	WP2	WP3	WP4	WP5	WP6	WP7	WP8	WP9	WP10	WP1		
	A	A	A	A	A	A	A	A	A	A	A	
C International	0.00	0.00	0.00	0.00	0.00	6.30	2.60	5.10	2.60	5.20	21.80	
Innova S.p.A.	0.00	0.00	0.00	0.00	3.50	3.70	0.00	0.00	1.10	0.20	8.50	
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
In-Jet ApS	0.00	0.00	0.20	0.00	0.70	1.20	4.50	3.90	0.00	1.30	11.80	
University of Aarhus	0.00	0.00	0.00	7.00	0.00	12.00	12.00	0.50	0.00	0.00	31.50	
Foundation for research and technology	0.00	0.00	0.00	0.73	0.24	4.10	5.30	2.46	4.96	0.32	18.11	
CNet Svenska	0.00	0.00	0.00	0.00	0.00	8.59	6.48	0.60	1.41	1.62	18.70	
T-Connect S.r.l.	0.00	0.00	0.00	0.00	0.00	12.92	0.82	0.00	0.00	0.00	13.74	
Software AG	0.00	0.00	0.10	0.00	0.00	2.29	0.85	0.00	0.40	0.30	3.94	
Telefonica I+D	0.00	0.00	0.00	0.29	0.00	9.05	2.00	0.90	0.26	3.30	15.80	
Grundfos Management A/S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
East Birmingham PCT	0.00	0.00	0.00	0.00	0.00	5.30	9.30	2.20	0.10	0.00	16.90	
Total	0.00	0.00	0.30	8.02	4.44	65.45	43.85	15.66	10.83	12.24	160.79	

Cumulative effort for the project to completion are as follows:

Contractor	RTD / Innovation																		Management		Total		
	WP2		WP3		WP4		WP5		WP6		WP7		WP8		WP9		WP10		WP1		A	P	
	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P					
Q12																							
C International	2.60	2.00	0.00	0.00	0.00	0.00	0.00	0.00	3.15	2.20	6.30	3.50	2.60	1.60	8.80	6.50	5.80	4.00	19.55	20.20	48.80	40.00	
Innova S.p.A.	22.90	13.00	0.00	0.00	0.00	0.00	0.00	0.00	14.90	12.50	3.50	3.00	12.00	9.10	3.00	3.00	2.00	2.00	0.40	0.40	58.70	43.00	
In-Jet ApS	5.80	5.00	0.90	0.40	3.40	4.00	0.50	2.50	10.60	5.00	1.50	1.20	5.60	9.30	8.00	3.70	0.20	3.50	4.70	7.70	41.20	42.30	
University of Aarhus	6.49	5.00	16.43	25.20	7.79	7.00	7.00	0.00	0.00	0.40	12.00	9.00	12.00	1.10	0.50	3.40	0.20	2.20	0.52	1.90	62.93	55.20	
Foundation for research and technology	0.50	4.00	22.20	15.50	12.00	11.25	11.73	10.00	0.51	0.50	8.35	7.30	6.30	2.00	3.36	2.50	5.75	2.30	0.48	0.40	71.18	55.75	
CNet Svenska	5.70	0.90	1.10	1.00	28.50	25.60	0.30	4.00	0.60	0.40	8.50	15.20	7.70	1.90	2.40	3.00	2.50	2.80	5.40	0.10	62.70	54.90	
T-Connect S.r.l.	1.38	0.00	8.90	6.00	10.14	6.00	3.15	11.00	0.00	0.00	10.87	6.00	14.58	0.80	3.60	1.10	0.15	0.33	0.95	0.43	53.72	31.66	
Software AG	0.00	0.00	0.00	0.00	13.50	13.50	0.00	0.00	0.00	0.00	3.00	3.00	1.16	1.20	0.00	0.00	1.11	1.50	0.48	0.30	19.25	19.50	
Telefonica I+D	2.92	0.00	10.82	5.00	11.76	7.60	17.99	20.00	1.20	0.40	9.05	17.00	3.30	2.00	1.35	3.10	0.56	3.50	3.42	3.90	62.37	62.50	
Grundfos Management A/S	2.38	4.00	2.00	0.00	0.00	0.00	0.00	0.00	0.64	0.90	0.00	3.00	0.30	7.20	0.45	2.00	0.22	0.70	0.20	0.20	6.19	18.00	
East Birmingham PCT	2.83	4.00	0.60	0.00	0.00	0.00	0.00	0.00	0.24	0.90	5.30	3.00	10.10	7.20	3.05	2.00	0.32	0.10	0.19	0.20	22.63	17.40	
Total	53.50	37.90	62.95	53.10	87.09	74.95	40.67	47.50	31.84	23.20	68.37	71.20	75.64	43.40	34.51	30.30	18.81	22.93	36.29	35.73	509.67	440.21	

5.4 Progress against workplan

The following table shows progress against the project's activity workplan as at 31st May 2007:

Year/Quarter		1/1			1/2			1/3			1/4			2/1			2/2			2/3			2/4			3/1			3/2			3/3			3/4		
Month		1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
	= Completed work																																				
	= Pending work																																				
P1	Project management																																				
T1.1	Project initiation																																				
T1.2	Operational project management																																				
T1.3	Project reporting																																				
WP2	User requirement specifications																																				
T2.1	Analyse State of the Art																																				
T2.2	Define trust and security requirements																																				
T2.3	Workflow analysis and optimisation																																				
WP3	Client side architecture																																				
T3.1	Software architecture analysis & design																																				
T3.2	OSGI framework on gateways																																				
T3.3	Research new devices, interactions.																																				
WP4	Server side architecture																																				
T4.1	Software architecture analysis & design																																				
T4.2	Network intelligence pool & databases																																				
T4.3	Application intelligence / web services																																				
WP5	Communications infrastructure																																				
T5.1	Set up fixed/mobile comms. networks																																				
T5.2	Set up TETRA network																																				
WP6	Socio-economic issues																																				
T6.1	Business modelling																																				

		Year/Quarter			1/1			1/2			1/3			1/4			2/1			2/2			2/3			2/4			3/1			3/2			3/3			3/4		
		Month			1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3			
T6.2	European awareness scenario w/shops																																							
WP7	System integration																																							
T7.1	Integration of system components																																							
T7.2	Technical testing overall platform																																							
T7.3	Testing and user scenarios																																							
T7.4	Validation plans																																							
WP8	Testing and validation																																							
T8.1	Validation of ESN																																							
T8.2	Validation of Healthcare tomorrow																																							
T8.3	Preparation for exploitation & take-up																																							
WP9	Dissemination and exploitation																																							
T9.1	Project dissemination																																							
T9.2	Exploitation																																							
WP10	Review and Assessment																																							
T10.1	On-going project review																																							
T10.2	Final assessment																																							