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Dissemination Plan

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ACRONYMS

Acronym	Meaning
DoW	Description of work
WP	Work package
MEG	Magnetoencephalography
EEG	Electroencephalography
ECG	Electrocardiogram
MRI	Magnetic resonance imaging
EU	European union
PHR	Personal health record
EHR	Electronic health record
RTD	Research and technological development
PHS	Personal health system

EXECUTIVE SUMMARY

This document is part of the WP 7, whose main objective is to implement a set of dissemination and exploitation activities and to facilitate the successful exploitation of the results.

This first release of the dissemination plan describes the overall activities that the ARMOR Consortium has carried out or plans to carry out in order to disseminate the project results among as large a number of people as possible.

At the current stage, partners have already made some progress in order to disseminate the project. The development of the project website and logo were among the first main dissemination activities. Partners have already presented the project in national and international conferences such as the conference on Systems Neuroscience and Rehabilitation (SNR2012) held in Japan and plan to participate in coming conferences in the ARMOR research field such as the 10th European Congress of Epileptology in London. Apart from this flyers have already been created and distributed among researchers, whose expertise is related to the ARMOR research field.

The document is mainly divided into two parts. In the first part all the means that are and will be used in order to disseminate the results obtained throughout ARMOR project are presented. In the second part all involved partners have developed and presented their own dissemination plan in order to ensure that the project continues to achieve full potential impact on target groups.

All the planned or already carried out actions are included in this document.

DOCUMENT INFORMATION

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EU Project officer	Mr. Joel Backet		

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1 INTRODUCTION

1.1 Document Overview

The principal objective of this document is to describe the overall strategy for the dissemination for the ARMOR project and the exploitation plans of each partner. The document is divided into the following sections:

- Section 1 “Introduction”: Provides a general description of this deliverable and its structure as well as an overview of the dissemination approach.
- Section 2 “Dissemination”: Provides an overview of the means that will be used in order to disseminate the results obtained throughout ARMOR project lifetime to the general and specialised public.
- Section 3 “Individual Dissemination and Use Plans”: Details the intentions of each partner for exploitation and use of the project results.

1.2 Dissemination Approach

During and after the project lifetime the consortium will carry out different dissemination activities, which will cover three types of activities, each addressing specific objectives as follows:

- Communication about the ARMOR project with other EU and RTD programmes
- Dissemination of knowledge resulting from ARMOR
- Management of project results and exploitation plans

1.2.1 Communications

ARMOR communication activities have the goal of providing a greater visibility and understanding of EU investments in information and communication technologies RTD programmes. The aim is also to promote the positive impact of the EU RTD on scientific progress, quality of life and economy, and to strengthen public engagement in future RTD investments. Communications will target the general public, technical experts and stakeholders of public research programmes. The communication channels and format will ensure that ARMOR communications are accessible to a wider audience. In view of its inherent complexity, the specific technical information on ARMOR research will however mainly address technically literate people.

1.2.2 Dissemination

The ARMOR partners recognise that they alone cannot address all the needs required in the domain of PHS and epilepsy and that exchanges with scientists and technical experts not involved in the project will benefit the whole industrial and research community in Europe. Also, the ARMOR consortium sees the need to actively promote the concepts developed in ARMOR and their benefits, to a community of technical experts related to ARMOR objectives. The ARMOR partners will therefore actively support information dissemination activities in events organised by other consortia and programmes, and will also initiate their own events as described in the following table.

The participation in technical conferences and industrial events in the ARMOR research field will be an important aspect of ARMOR information dissemination actions. The ARMOR information dissemination activities will be revisited periodically in the course of the project and the list of events will be amended as necessary.

1.2.3 *Exploitation of project results*

The exploitation plans obviously vary between the different (industrial, academic) types of organisations within the consortium. In general, universities and research institutions provide the technology transfer to the industrial partners. The main directions for the exploitations of the project results are:

- Scientific publications
- Royalties from inventions made
- Reuse of the knowledge acquired for further RTD contracts, in particular from the industry

The academic partners in this project also intend to exploit the project to raise the level of education, both by giving Master and PhD students the opportunity to work on cutting-edge research in a European collaborative effort as well as by using the research results in the teaching process of undergraduate and graduate students, allowing courses and seminars to be taught using current technology and research results.

2 DISSEMINATION

This section describes all the dissemination actions that have already been carried out in order to actively promote the results of the project or describe the work to be done in order to achieve the goals of the project.

2.1 Logo

The first dissemination activity was the development of a logo for the project. A logo is important for a project in order to create immediate recognition and recall, the logo that was developed is and will be used in all the project events and activities (e.g. presentations, publications, leaflets and the website). Fig. 1 shows the logo that was created by the Consortium members.



Figure 1 ARMOR Logo

2.2 Website

The ARMOR website (www.armor-project.eu) was one of the first dissemination activities and is one of the basic dissemination channel and the source of the most up-to-date information about the project. The first version of the website was available in December 2011. The consortium will make sure that the ARMOR website will be continuously updated and all scientific and general public publications as well as dissemination material and public deliverables will be available there.

The website is divided into the following sections:

- Home: It describes the rationale of the project and provides an overall idea of its objectives.
- Overview: This section introduces the motivation and the objectives of the ARMOR project. It also describes the main approach that will be followed in order to achieve the goals of the project (Figure 2).
- Consortium: This section provides a description of the project partners, with their research field, main role and contact details of researchers (Figure 3).
- Results: In this section all the results in form of demos, deliverables and publications of the project will be presented.
- News Room: This section will gather all the news that have been published in a newspaper or magazine or broadcasted on television.
- Promotion Material: All the promotion material in form of flyers or leaflets will be available in this section.
- Contact: This section provides the contact details of the project coordinator for those people interested in having further information on the project.



Figure 2 Screenshot of ARMOR website page



Figure 3 Screenshot of ARMOR website page. Consortium

Besides the public area, a private area has been created. Purpose of the private area is to facilitate the exchange of documents. Apart for that the private area includes a portal, which facilitates the conversation and the exchange of ideas on specific issues.

2.3 Twitter account

A twitter account has been created to inform about the state of the project as well as, publications, presentations at conferences, workshops and so on. Moreover, it has been added to a list of all eHealth funded projects by the EC.

2.4 Press releases

The first press release was made during the kick-off meeting. In the newspaper "The Cyprus Weekly" a short article regarding the ARMOR project and its main objectives was published.

2.5 Leaflet

A leaflet was elaborated that summarises the objectives, workplan and expected outputs of the ARMOR. The consortium is presented and it includes the corresponding contacts in case anyone is interesting in obtaining further information. While attending conferences, workshops or other events copies of the leaflet will be distributes to other researchers, thus promoting the project and its expected outcomes.

2.6 ID-Card

The ID-Card is a short project description in form of .pdf file and it is an important tool to present the project. The ID-Card includes the main objectives and the expected results of the project in a more detailed way with respect to the leaflet. Both the leaflet and the ID-Card can be downloaded from the official website of the project.

2.7 Poster and powerpoint template

A poster that provides an overview of the objectives, workplan and expected outputs of the ARMOR has been created. The poster is distributed among partners, who will exhibit it in the events where they take part. Also a presentation template with the project related logos was prepared and distributed amongst the partners.

2.8 Publication in journals

Publications in journals are an important way to disseminate scientific knowledge, and the ARMOR consortium will also follow this approach, by publishing its results in various journals. Given the diversity of the project members' background the results will be published in a large variety of journals, aiming at different kinds of public.

2.9 Presentation at conferences, seminars and workshops

The participation in technical and medical conferences as well as industrial events in the ARMOR research field is an important part of the ARMOR dissemination actions. Therefore the attendance of project partners to relevant conferences and meetings will be given special attention: a means to ensure that the public will be informed about the project progress, and that the ARMOR Consortium will be aware of other related initiatives. At the current stage, partners have already submitted articles to international conferences, or plan to do so in the following months. In section 3 we specify the conferences where partners have already or plan to participate.

2.10 Contact with other EU projects and initiatives

Identifying national and international projects, whose research field is relevant to the ARMOR will be one of the following steps. The goal will be to share experience and results, which would be valuable for the further steps of the project.

We plan to organize specialized workshops in local and international conferences related to ARMOR, where relevant EU funded projects will be invited to participate in

order to exchange their research results and explore potential synergies among the consortia. During project's lifetime, ARMOR consortium will establish bilateral communication with EU funded projects in ARMOR's research area in order to better co-ordinate ARMOR's research activities with existing EU funded research. One of this projects is EPILEPSIAE which focuses on (a) data acquisition (development of high speed, high number of channels, low power EEG recorder), (b) development of a database for epilepsy data containing high quality neurophysiological recordings (EEG scalp and intracranial), ECG data, MRI data, and metadata about recordings and patients, and (c) development of advanced seizure prediction algorithms and a small transportable alarming device. Given that ARMOR, focusing on multiparametric data analysis for epilepsy to assist diagnosis provide new medical knowledge and reduce management costs, is complementary to EPILEPSIAE project, the ARMOR's consortium will pursue close co-operation with EPILEPSIAE partners in order for both projects to benefit from the relevant research activities of each other.

Furthermore the partners that have been or are currently involved in other EU Projects will try to use part of the results from the other projects in ARMOR as well.

3 INDIVIDUAL DISSEMINATION AND USE PLANS

3.1 Sensing & Control Systems S.L. (S&C)

S&C will contribute by the publication of articles focused on a more commercial target. This means on the one hand to make a market research in order to know the commercial background and on the other hand, prepare business models for the good commercial targets.

Moreover, S&C will collaborate in the preparation of workshops with potential users of the System. Therefore is necessary to identify, with the collaboration of the Medical side, these potential users, not only doctors and specialists in epilepsy but also patients and institutions related to epilepsy disease.

We are going to disseminate actively the technology developed in the ARMOR project in workshops, exhibitions, conferences and seminars. Furthermore, we will try to make face to face meetings in order to receive first-hand information. Additionally, these meetings may help to receive feedback for exploitation models. Therefore S&C plans attending conferences, exhibitions and contribute at events and trade fairs such as

- Med@Tel. "The international ehealth, telemedicine and health ict forum", 18-20/4/2012, Luxembourg.
- Smart Healthcare live. "Smart Healthcare Live 2012 London", 2-3/5/2012, London, UK.
- eHealth 2012. "eHealth High Level Conference 2012", 7-9/5/2012, Copenhagen, Denmark.
- Connecting Healthcare IT. 24-26/04/12, Berlin, Germany.
- MEDICA 2012. 14-17/11/12, Düsseldorf, Germany.
- HEALTHINF 2013. "6th International Conference on Health Informatics", 11-14/2/2013, Barcelona, Spain.
- Embedded World 2013. "Welcome to a smarter world", 26-28/2/2013, Nuremberg, Germany.
- CeBIT 2013. "CeBIT as the heart of the digital world", 6-10/3/2013, Hannover, Germany.
- International CES 2013. 8-11/1/2013, Las Vegas, EEUU.

Apart from that, S&C will actively promote the ARMOR project in conferences, webpage of the company and other company events.

3.2 Technological Educational Institute of Mesolonghi (TMES)

TMES plans to make use of the work conducted in ARMOR so as to extend its research activities in the area of medical systems. Having many years of experience in embedded systems, telecommunication and security; it plans to combine it with the results of ARMOR.

More specifically, the security algorithms, which will be developed and implemented in ARMOR, will be used to develop the next generation embedded devices for securing seamlessly the data of the patients, both during transmission and storage. TMES has already contacts with local and European industry, which plans to strengthen through the results of ARMOR as far as security is concerned.

Moreover, TMES will take advantage of the ARMOR results regarding multi-parametric data analysis algorithms and their speed up through hardware implementations. In that direction, in co-operation with UoP, it will promote the research in the relevant areas and it will pursue future research co-operations in the common fields.

3.3 University of Patras (UoP)

UoP as an academic institution will focus on publicizing ARMOR results to academics and the general public. UoP plans to make use of the work performed in ARMOR in (a) their on-going research on spatiotemporal data mining, pattern recognition, intelligent information systems and on investigating the mutual relationship between epilepsy and sleep micro- and macro-structure with EEG recordings and brain connectivity analysis, (b) in the training of graduate students of computer engineering and informatics as well as neuroinformatics, neurology and clinical neurophysiology and (c) in public education forums aiming to eliminate the social stigma of epilepsy.

UoP working together with AAISCS and KCL plans to disseminate results from investigating new methodologies for management, processing and analysis of multiparametric data as well as results from data analysis with original scientific publications (journals and international conferences) in three distinct areas: (a) data management and data mining, publishing in peer reviewed journals (such as Information Systems, Journal of Intelligent Information Systems, Intelligent Data Analysis, Pattern Recognition) and presenting in scientific meetings, (b) medical field, publishing in peer reviewed journals (such as Epilepsia, Epileptic Disorders, Brain Research, Journal of Neurophysiology, Journal of Neuroscience, Neuron, Journal of Sleep Research, Neuroscience, Human Brain Mapping, Neuroimage) and presenting in scientific meetings (such as the European Congress of Epilepsy (ECE), International League Against Epilepsy (ILAE) meetings, Human Brain Mapping Conference (OHBM), International Conference On BioMagnetism (BIOMAG), annual meetings of Society for Neuroscience in USA and Federation of European Neuroscience Societies (FENS), and (c) medical informatics field, publishing in peer reviewed journals (such as the International Journal of Medical Informatics, Methods of Information in Medicine, Artificial Intelligence in Medicine, etc) and presenting in scientific meetings (such as the ACM International Health Informatics Symposium, IEEE International Symposium on Biomedical Imaging, eTELEMED, International Conference on eHealth, Telemedicine, and Social Medicine BIOSTEC, International Joint Conference on Biomedical Engineering Systems and Technologies).

Furthermore, the scientific outcomes and contributions will also become available on the project's web site for informing the general public and as well as researchers working in scientific areas related to the project. UoP also plans to organize sessions and workshops in several of the conferences mentioned above.

In the near future, UoP plans to present ARMOR's objectives and distribute project leaflets and in general inform the researchers and practitioners about ARMOR in forums of epileptology (like the 7th Panhellenic Symposium on Epilepsy, 30/3-1/4/2012, Athens, Greece; the 10th European Congress of Epileptology, 30/9 - 4/10/2012, London UK and the 50th Anniversary Meeting of the "Michael Stiftung fur Epilepsie", 5-7/10/2012, Berlin, Germany), of general neuroscience (like the 8th Forum of Neuroscience, "Federation of European Neuroscience Societies", 14-18/7/2012, Barcelona, Spain) or of data management (like the SIAM International Conference on Data Mining, 26-28/4/2012, Anaheim, California, USA).

3.4 Kings College London (KCL)

KCL is amongst the top 30 Universities in the world. The department of Clinical Neuroscience is the second largest such department in the UK, with 19 Principal Investigators, 22 postdoctoral researchers, 23 PhD students and 25 other research staff. The centre of epilepsy in King's College Hospital comprises 10 consultant staff. Professors Mark Richardson and Michalis Koutroumanidis are international experts in Epilepsy and related disorders and have established multiple clinical and research collaborations with leading epilepsy centers in the world. Dissemination will focus in three main areas: a) academic presentations and publications, b) teaching and c)

building up international co-operations with other medical centers with similar research interests.

A. Working together with UoP and AAISCS, the results from the analysis of the collected data from the multiparametric monitoring of patients with different clinical conditions (epilepsy, neurally mediated syncope and psychiatric disorders) will be presented in National and International (European, American and World) Conferences and published in peer reviewed scientific journals. In addition to the meetings that have been indicated UoP and AAISCS in sections 3.3 and 3.5 respectively and include information technology, and clinical epileptology and neurophysiology, KCL will also pursue presentations in prestigious international conferences on general medicine, such as the Annual Meeting of the American Society of General Internal Medicine (SGIM) [proposed: 36th Annual Meeting, April 24-27, 2013, Denver, Colorado and 37th Annual Meeting, April 23-26, 2014, San Diego, CA], and the European Federation of Internal Medicine (EFIM) [proposed: 11th EFIM Congress, Madrid 24 - 27 October, 2012 and the 12th EFIM Congress, Prague - Czech Republic] as well as in National Conferences and workshops, such as those organized by the Royal College of Physicians (RCP). We also target important General Neurology meetings, such as the Annual Meetings of the American Academy of Neurology (AAN) [proposed: San Diego, March 16-23, 2013 and Philadelphia, April 26-May3 2014] and those of the European Neurological Society (ENS) [proposed: Barcelona, Spain 8-11 June 2013,]. Consequently, in addition to journals on Epilepsy, Clinical Neurophysiology and information technology we shall submit our work to top general medicine journals including JAMA, NEJM, Lancet, and general neurology Journals such as Neurology, Annals of Neurology, Lancet Neurology and European Neurology.

B. We are planning courses and workshops for medical and PhD students and neurology trainees in the UK and from abroad. To maximise attendance and dissemination, we will explore linking these to existing activities, such as meetings of the ILAE. We will liaise with patient representative groups (eg. Epilepsy Action in the UK) to disseminate outcomes to people with epilepsy and their carers.

C. We shall set up co-operations with other epilepsy centers. We are already exploring future collaborations with EPILEPSIAE, and collaboration with US-based International Epilepsy Electrophysiology Portal.

3.5 AAI Scientific Cultural Services Ltd (AAISCS)

AAISCS is a well established private research institute based in Nicosia, Cyprus. The director of the company was heading laboratories in three major research centers in UK, Germany and Japan over the past 20 years, has hence established solid collaborations and networks with leading research centers in the world. Thus, AAISCS will focus on publicizing ARMOR results to academics and general public.

AAISCS will contribute on two distinct areas. First, working together with UoP and KCL the results from the analysis of existing MEG data from sleep and epilepsy together with the analysis of the new data recorded at UoP and KCL will be published in scientific journals of general interest (e.g. NeuroImage, Human Brain Mapping, Journal of Neuroscience) and with more clinical orientation (e.g. Clinical Neurophysiology and Epilepsy). Second, the more practical aspects of the results will be collated and presented in the web page of AAISCS at two levels of access. First the progress of the ARMOR project both in terms of its scientific achievements and its implications for future applications will be described with free access to the general public. Second, more detailed progress report will be maintained and used as a common resource for the consortium and as a focus for on-going discussions.

Furthermore, AAISCS will promote the ARMOR project by presenting at international meetings, and by organising workshops and short courses to publicize the ARMOR project and results.

By March 2012, AAISCS has:

- Organised the first kick-off meeting for the ARMOR project in Cyprus and announced the project to the interested academics, clinics, organisations, local media, and individuals in Cyprus.
- Presented in the 1st Joint Cypriot-Greek-Russian Epilepsy Workshop. The project and its objectives were presented and project leaflets were distributed to participants from Cyprus, Greece and Russia.
- Presented in the Conference on Systems Neuroscience and Rehabilitation: SNR2012 held in National Rehabilitation Center in Japan. The project and its objectives were presented and project leaflets were distributed to participants from Asia (Japan, Korea, China), North America (USA and Canada), and Europe (UK, Germany, Finland etc.)

In 2012 and 2013, AASCS plans to present ARMOR results to the following meetings:

- The 18th Annual Meeting of the Organization for Human Brain Mapping to be held June 10-14, 2012 in Beijing, China
- The 30th International Epilepsy Congress to be held June 23-27, 2013 in Montreal, Canada.

3.6 INTRACOM S.A. Telecom Solutions (ICOM)

Intracom as the telecommunication service provider and solution integrator will aim to exploit the results of the project industrially, either through direct integration of novel technical solutions into its existing products or by creating a new range of products. Having been active for many years in the e-Health PHR/EHR platform and service development for public (hospitals) and private (hospitals, clinics and care takers) medical service providers across Europe. ICOM would be interested in enhancing range of features of its e-Health products, especially its intLIFE service platform.

ICOM intends to exploit the disease specific knowledge and validation related feedback acquired from the piloting of its Electronic Health Record and Care Management platform within the ARMOR aiming at rendering this platform into a unique product. Bearing in mind that multiple add-on technologies may be required for deploying proposed services, it will be important to scale those services and adapt to the capabilities of the integrated ARMOR system. This area is of primary interest to ICOM for building up future Value-Added Medical Services.

In doing this Intracom Telecom will explore and enhance the capabilities of its intLIFE Electronic Health Record and Care Management platform that will comprise a major component in ARMOR. Intracom Telecom will also expect to pursue activities related to the efficiency of the communication infrastructure of the ARMOR ICT environment. It will exploit the results of the project by adding support for Continuity of Care Document (CCD), Continuity of Care Record (CCR) into standardised complete Care Plan Management System.

3.7 SYSTEMA Technologies S.A (STMA)

SYSTEMA will aim at promoting the ARMOR results to audiences of the eHealth and eInclusion sectors. ARMOR synergistically complements SYSTEMA's activities in these areas.

The specific project results to be disseminated will be based on the Risk assessment and Decision support Services for the patient and the health professional that ARMOR

seeks to develop. Furthermore the know-how and experience gained during the ARMOR project will be directly promoted.

SYSTEMA plans to publish the work of ARMOR with the aim of disseminating important exploitable results. For this we will aim at establishing links, and influencing potential collaboration within the consortium but also outside, seeking to create opportunities for partnerships and alliances with interested organisations. This targeted dissemination activities, will mainly user needs requiring new state-of-the art technologies such as advanced interfaces and adaptive data mining techniques in real time health monitoring settings. Demonstration of results is also planned through presentations in national and international events and the scheduled ARMOR workshops.

Furthermore, SYSTEMA, being the coordinator of project MOBISERV will take up the responsibility of establishing a link with the MOBISERV promotion and clustering activities underway. These activities mainly refer to novel smart home independent living applications. Therefore, this link can guarantee that an important part of the ARMOR results – i.e. the patient home monitoring services – can be promoted to groups with this specific interest, hence improving the potential impact of these specific dissemination activities.

3.8 Karlsruhe Institute of Technology (KIT)

The sensor devices and software components for the monitoring of epilepsy patients expected to be developed and evaluated within the project will be useful in many application domains. Projects that include development of medical systems and applications have many promising application areas providing many future project opportunities. The ARMOR proposal gives the opportunity to enlarge KIT-activities in this field, strengthening its position in the development of medical electronic systems. Therefore KIT plans conference contributions and session organizations at events and trade fairs like:

- ACM International Health Informatics Symposium
- eTELEMED, International Conference on eHealth, Telemedicine, and Social Medicine
- BIOSTEC, International Joint Conference on Biomedical Engineering Systems and Technologies
- EMBC, IEEE Engineering in Medicine and Biology Conference
- MEDICA 2012: international trade fair and congress for medical technology, electromedicine, laboratory equipment, diagnostics and drugs
- BMT Jahrestagung der Deutschen Gesellschaft für Biomedizinische Technik (DGBMT) im VDE

APPENDIX 1 – ARMOR DELIVERABLE REVIEW FORM

ARMOR Deliverbale Review Form		
Deliverable:	...	
Reviewer(s):
Review Date:	...	

Does the document cover the objectives and task description stated in the DoW taking also into account the overall project vision?

Yes

No

Partly

Comments:

- ...
- ...

Is the Executive Summary in a publishable form? (This should be no longer than 2 pages, easy to understand by people outside the project, showing scope and result achieved)

Yes

No

Partly

Comments:

- ...
- ...

Are the structure and appearance (layout, images etc.) compliant with the Quality Plan?

Yes

No

Partly

Comments:

- ...
- ...