

Action full title:

Universal, mobile-centric and opportunistic communications architecture

Action acronym:

UMOBILE



Deliverable:

D6.2 - UMOBILE Dissemination Report (1)

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CI	Classified, as referred to in Commission Decision 2001/844/EC	



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Document History

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 - **Description:** First draft to the consortium for comments and feedback

- **Version:1.1**
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 - **Description:** Version submitted to the consortium approval.



1 Executive Summary

The Dissemination Report (D.6.2) is produced as part of the activities of Work Package 6 “Dissemination, exploitation and standardisation”. It is a public document which will be made available on the project website, in the “Download” section, for external parties interested in the dissemination of UMOBILE project.

As stated in the DoW (Description of Work), the objectives of the UMOBILE work package 6 “Dissemination, exploitation and standardisation”, related to the dissemination activities, are:

- To widely disseminate the project concept, developments and findings to all key actors in the field in an interactive way, integrating their feedback at key points of the specification, design, development and evaluation work.
- To develop a project dissemination and communication strategy.
- To develop an user friendly website to inform the general public and relevant stakeholders about the project.
- To organize and/or publish results in international conferences and workshops to inform the scientific community about the project, its goals and achievements and to gather valuable information on related issues.

Through this dissemination report, WP6 intends to inform about the achievement of the mentioned goals.

The document reports information on all the dissemination actions till July 31st, 2016. All meeting agendas, presentations and number of participants are included.

2 Stakeholders

This section describes the main stakeholder groups, and the methods that have been used to access each one of them and to circulate announcements and ongoing results:

- **Academia/research institutions:** This includes organisations whose primary focus is higher education and research, such as universities and other academic institutes. The topics of interests are: Delay Tolerant Networking (DTN), Information Centric Networking (ICN), Opportunistic communications architecture. This group has been targeted through numerous publications in prestigious international conferences and journals;
- **Industry:** This includes private companies providing end-users solutions through research and development as well as manufacturers, suppliers, distributors, service providers, vendors, system integrators, at the frontline of addressing the need for a ubiquitous internet. This group has been informed about UMOBILE project through newsletter and workshops;
- **Government:** This includes representatives from different levels of governmental organisations such as the European Commission, inter-governmental organisations, Member State governments or local governments. This group has been targeted through newsletter;



- **Research project managers:** This includes project managers which have the responsibility of the planning, execution and closing of any project, related to Delay Tolerant Networking (DTN), Information Centric Networking (ICN), Opportunistic communications architecture. This group has been targeted through numerous publications in prestigious international conferences and journals, newsletter, international meetings;
- **Civil protection authorities and first responders:** This group includes any entity or association whose goal is to protect the citizens of a state. The outcomes of UMOBILE would be a valuable help during: prevention, mitigation, preparation, response, or emergency evacuation and recovery. They have been informed through newsletter, workshops and fairs about emergency division.
- **Policy makers:** This includes individuals and members of the board of directors who have the authority to set the policy framework of an organisation (government or business). They have been informed through newsletter.
- **Media:** Includes all kinds of communications platforms like television, radio, newspapers, magazines, journals, blogs, and websites, which are interested in new technology to make Internet universal and supporting diverse set of services. This group has been targeted through publications in prestigious international journals and press releases;
- **Public:** Refers to the ordinary people in society which are most of all interested in the usage of new services on handheld devices (mainly smartphones). They have been informed through social networks.

3 The project website

3.1 The public website

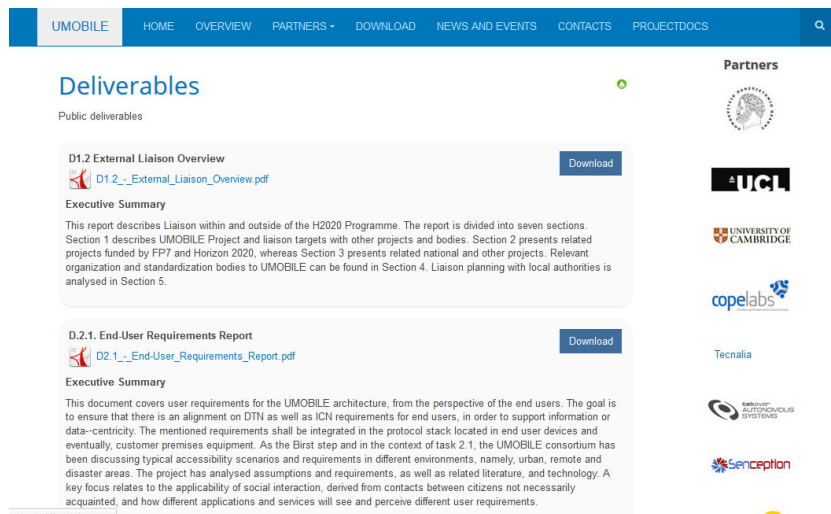
Information pertaining to progress of the project are disseminated on the website realized at the first stadium of the project. The project website is located at <http://www.umobile-project.eu/>. It represents the primary source of dissemination of news and information about UMOBILE activities. It is an immediate and easy-to-access entry point which is open to all relevant stakeholders, and thus able to create awareness and interest about the project by making the most important information publicly available in a concise but exhaustive manner. The Home page and the “News and events” section have been used to provide information on the main news and events concerning the project, including announcements and reports on public events which have been organized during project lifetime.





UMOBILE pubic website: Home Page

The “Overview” section provides basic information about the project such as its scope, its main aim and the related works. A “Download” page was set up to collect all materials developed during project. This page was organised into categories and was enriched with downloadable pdfs of all public deliverables and publications, dissemination materials like logos in different size, leaflets, etc.



UMOBILE pubic website: Deliverables section

3.2 The internal website for the Consortium members

The web site also contains a private area, accessible only through a login process and primarily reserved to Consortium members. It is a documentation portal, based on MediaWiki, that has been set up in order to:

- foster collaboration among the partners of the consortium;
- enable collaborative input;
- enable the collection of information about dissemination activities.



It represents the internal document repository of the project, in which all relevant documents and information have been stored. It is also an helpful tool to prepare materials and set up a dissemination strategy of UMOBILE work and results. It was used to:

- write periodically teleconference and meeting agendas and minutes;
- write deliverables and convert them directly in pdf format in order to be submitted to EC portal;
- store presentations and other files;
- share architectural and general informations with the members of Consortium;
- identify a wide stakeholders audience;
- compile a contacts list to whom we sent the first newsletter about UMOBILE and its findings.

3.3 The social media

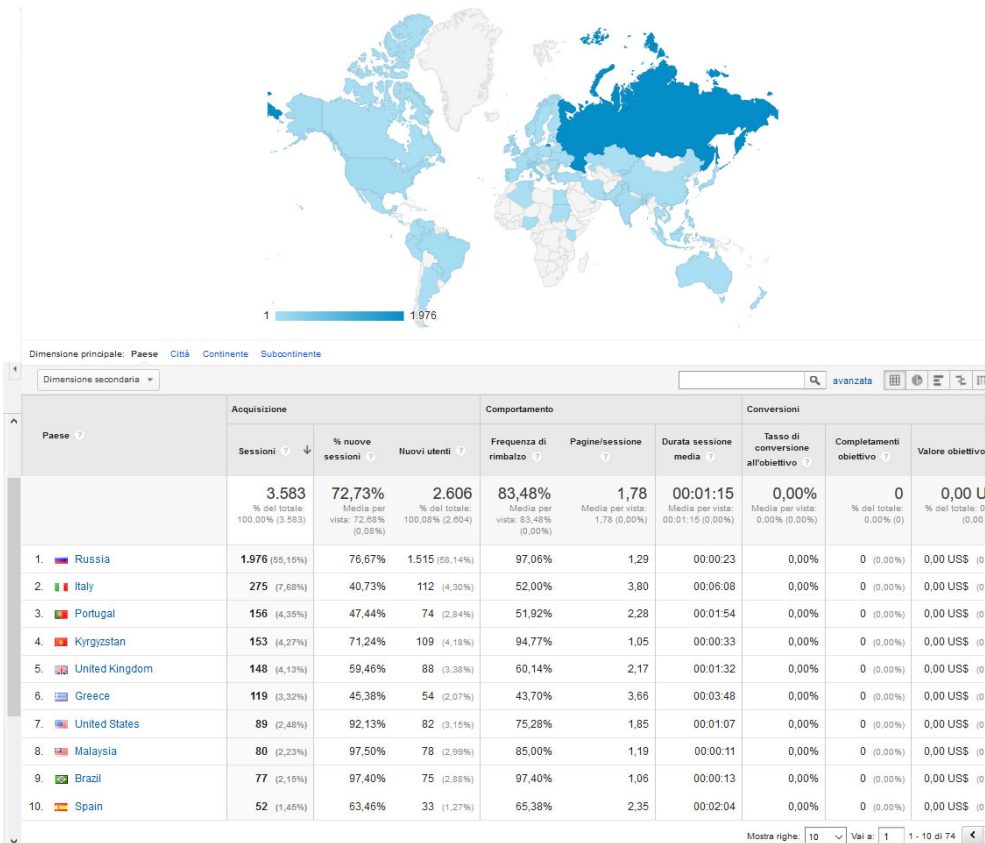
A Facebook page of UMOBILE project was designed to augment and complement the website as the central channel of customer engagement. Each partner of UMOBILE consortium periodically public posts to UMOBILE facebook page concerning the project. The facebook project page is reachable at the following link: <https://www.facebook.com/UMOBILEproject>.



UMOBILE Facebook page

3.4 Website audience

Detailed statistics about UMOBILE website's traffic and traffic sources have been generated using Google Analytics. The website is very popular in Europe, but it is also attracting attention from the United States, Malaysia, Brazil. The following Figure shows the top countries from which site visitors came and lists in a tabular form the top countries in terms of the number of visits and provides information about users' behavior. Most visitors came from Russia, followed by Italy, Portugal, Kyrgyzstan, United Kingdom, Greece, United States, etc.



UMOBILE Google Analytics statistics


4 Newsletter

The main purpose of the newsletter as mean of dissemination is to provide general information about the project and disseminate up-to-date information to interested parties about the activities performed within the scope of the project. Each partner of UMOBILE Consortium listed the email addresses of their contacts and before sending, newsletter content was agreed upon and commonly accepted. The newsletter was structured as follows:

1. abstract of the UMOBILE project, as the combination of two approaches: Delay/Disruption Tolerant Networking (DTN) and Information Centric Networking (ICN);
2. links to further information, to share the news through Facebook and to forward the newsletter to a friend;



3. footer with the logos of the UMOBILE Consortium partners.



Universal, mobile-centric and opportunistic communications architecture

Vol.1 Issue 1

In mid-April, after a year of activity, the consortium of UMOBILE project, which consists of European universities and companies, met at the **Space Internetworking Center (SPICE) of the Democritus University of Thrace (DUTH), in Xanthi (Greece)**.

The consortium is developing the UMOBILE architecture, which aims to assist users in getting access to the content they want or content that may be of shared interest to their trust circles. By relying on an instance of the UMOBILE architecture, **users are able to share information directly with other peers without relying on infrastructure or expensive connectivity services**.

In particular, UMOBILE targets the mobile part of the network and **extends Internet connectivity to regions that are typically not covered**, enhancing network resilience. To achieve that, UMOBILE combines the advantages of two emerging approaches: **Information Centric Networking (ICN)** and **Delay/Disruption Tolerant Networking (DTN)**.

The UMOBILE project is a consistent effort to tackle with the more recent and promising techniques the challenges of the rapidly increasing number of connected devices as well as the capacity demand of the **Future Internet** world.

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The content of this message does not necessarily reflect the views of the European Commission.

UMOBILE Newsletter



5 UMOBILE Publications and Papers during the first half of the project

The following table provides an overview of UMOBILE related publications and papers given by the project partners.

Title	Data	Authors	Open Access Repository
SCANDEX: Service Centric Networking for Challenged Decentralised Networks	2015	A. Sathiaselalan, L. Wang, A. Aucinas, G. Tyson, J. Crowcroft	zenodo
Exploiting Communication Opportunities in Disrupted Network Environments	2015	L. Mamatas, A. Papadopoulou, V. Tsaoussidis	zenodo
DTN routing optimised by human routines: the HURRY protocol	2015	S. Perez-Sanchez, J. Cabero, I. Urteaga	researchgate
Pervasive Data Sharing as Enabler for Mobile Citizen Sensing Systems	2015	W. Moreira, P. Mendes	zenodo
Pro-Diluvian: Understanding Scoped-Flooding for Content Discovery in Information-Centric Networking	2015	L. Wang, S. Bayhan, J. Ott, J. Kangasharju, A. Sathiaselalan, J. Crowcroft	ACM Digital Library
Understanding Internet Usage and Network Locality in a Rural Community Wireless Mesh Network	2015	A. Lertsinsrubtavee, L. Wang, A. Sathiaselalan, N. Weshsuwannarugs, A. Tunpan, K. Kanchanasut, J. Crowcroft	ACM Digital Library
Bulk Data Transfers through an Airline Delay-Tolerant Network	2015	C. M. Malliou, N. Bezirgiannidis, V. Tsaoussidis	zenodo

Title	Data	Authors	Open Access Repository
Oil – Opportunistic Data Transmission based on Wi-Fi Direct	2016	L. Lopes, R. Sofia, P. Mendes, W. Moreira	zenodo
Buffering... energy for mobile devices: A “store and rendezvous” approach	2016	D. Vardalis, C. Sarros, V. Tsaoussidis	zenodo
A Characterization Study of Human Wireless Footprints with PerSense Mobile Light	2016	R. Sofia, P. Mendes	DOI
Tube Streaming: Modelling Collaborative Media Streaming in Urban Railway Networks	2016	A. G. Tasiopoulos, I. Psaras, V. Sourlas, G. Pavlou	
A Collaborative Video Download Application Based on Wi-Fi Direct	2016	H. Sha, A. G. Tasiopoulos, I. Psaras, G. Pavlou	Springer Link
Opportunistic Off-Path Content Discovery in Information-Centric Networks	2016	O. Ascigil, V. Sourlas, I. Psaras, G. Pavlou	
Keyword-Based Mobile Application Sharing	2016	I. Psaras, S. Rene, K. V. Katsaros, N. Bezirgiannidis, V. Sourlas, S. Diamantopoulos, I. Komnios, V. Tsaoussidis, G. Pavlou	
Information-Centric Connectivity	2016	K. V. Katsaros, V. Sourlas, I. Psaras, S. Reñé, G. Pavlou	
Named Data Networking Based Smart Home Lighting	2016	U.D.Silva, A. Lertsinsrubtavee, A. Sathiseelan, K. Kanchanasut	
Cloudrone: Micro Clouds in the Sky	2016	A. Sathiseelan, A. Lertsinsrubtavee, A. Jagan, P. Baskaran, J. Crowcroft	ACM Digital Library

6 Dissemination and Communication activities during the first half of the project

First table provides an overview of UMOBILE related activities organized or attended by the project partners with respective data, location, target of person reached and number estimated of persons reached. Second table lists the dissemination resources (posters, flyers, leaflets, presentations, etc) used by partners in conferences and workshops.



6.1 Events: conferences, workshops, exhibitions, fairs

Title	Data	Partners	Location	Target (category of persons reached)	Number of persons reached (estimated)	O/P*
Net Futures Conference 2015	2015/03/25	DUTH	Brussels, BE	Partners involved in Future Internet projects and EC officials	700	P
ACM MobiSys DIY workshop	2015/05/18	UCAM	Florence, IT	ICN	50	P
WWIC 2015	2015/05/25 – 2015/05/27	Tecnalia, DUTH	Malaga, ES		47	P
COPELABS Open Day	2015/06/18	COPELABS	Lisbon, PT	Academia, industry, government	Workshop: >50 Facebook: 500	O
IETF 93 meeting	2015/07/19 – 2015/07/24	UCL	Prague, CZ			P
ICNRG & ICN workshop						P
ACM ICN 2015 conference	2015/10/01	UCAM	San Francisco, USA			P
Interim meeting of the ICRNG			Yokohama – Japan			P
ICN workshop			Japan			P
ICSNC 2015 (The Tenth International Conference on Systems and Networks Communications)	2015/11/15 – 2015/11/20	DUTH	Barcelona, ES			P

Title	Data	Partners	Location	Target (category of persons reached)	Number of persons reached (estimated)	O/P*
ACM AINTEC	2015/11/18 – 2015/11/20	UCAM	Bangkok, TH	Academia	100	P
IRTF GAIA workshop	2015/11/30	UCAM	London, UK	Academia	80	O
ACM DEV conference	2015/12/01 – 2015/12/02	UCAM	London, UK	Academia		P
Interim meeting of the 23rd ICNRG		UCL	Paris, FR			P
23rd ICT conference						P
EU ITN CleanSky project workshop						P
The sixth annual Symposium on Computing for Development, ACM DEV'15	2015/12/01 – 2015/12/02	UCAM	London, UK	Academia	150	O
The first International Workshop on Future Internet Architecture for Developing Regions (FI4D), in conjunction with IEEE CCNC	2016/01/09	UCAM	Las Vegas, USA	Academia	50	O
Workshop on New Frontiers in Internet of Things, ICTP	2016/03/07 – 2016/03/18	UCAM	Trieste, IT	Academia	50	O

Title	Data	Partners	Location	Target (category of persons reached)	Number of persons reached (estimated)	O/P*
IETF 95 meeting	2016/04/04 – 2016/04/08	DUTH	Buenos Aires, Argentina	Standardisation researchers and officials	1660	P
IEEE INFOCOM conference	2016/04/10 – 2016/04/15	COPELABS	San Francisco, USA			P
COPELABS Scientific Advisory Board meeting	2016/05/05 – 2016/05/06	COPELABS	Lisbon, PT	Scientific advisory board, academia, students	40	O
SENSKIN project meeting	2016/05/17 – 2016/05/18	DUTH	Rome, IT	Partners of SENSKIN project	26	P
IFIP Networking	2016/05/17 – 2016/05/19	UCL	VIENNA, AT			P
WWIC 2016	2016/05/25 – 2016/05/27	DUTH	Thessaloniki, GR		50	P
Bern University	2016/06/02	DUTH	Bern, CH	Professors and researchers from Bern University	10	P
ExpoEmergenze 2016	2016/06/03 – 2016/06/05	AFA Systems	Bastia Umbra, IT	Civil Protection Agencies	Workshop:50 Stand:1.000	P

Title	Data	Partners	Location	Target (category of persons reached)	Number of persons reached (estimated)	O/P*
The Technology for the Bottom Billion Workshop	2016/06/10	UCAM	Cambridge, UK	Academia	50	P
ACM MobiSys Dronet workshop	2016/06/26	UCAM	Singapore	Drone	50	P
Techfugees Cambridge conference	2016/07/02	UCAM	Cambridge, UK	Academia	80	P
Ciencia 2016 (National Science conference)	2016/07/04 – 2016/07/06	COPELABS	Lisbon, PT	Portuguese academia and government	2500. Presence: stand, discussion panel	P
Multi-Service Networks Workshop	2016/07/07	UCL	Cosener's House, UK			P
IETF 96 meeting	2016/07/17 – 2016/07/22	UCL	Berlin, DE			P

*Organisation / Participation



6.2 Media: presentations, apps, flyers, videos, press releases

Description	Date	Partner
Leaflet	2015	DUTH, All
Presentation – Bulk Data Transfers through an Airline Delay-Tolerant Network	2015	DUTH
Article in Fon's blog	2015	FON
Senception Facebook page	2015	Senception
News on Senception's website	2015	Senception
News in Portuguese Television Website TVI 2015	2015/03/04	TEKEVER
News in Portuguese Newspaper Público	2015/03/04	TEKEVER
Dissemination on TEKEVER's Facebook page	2015/03/03	TEKEVER
News in Telecompaper	2015/03/09	TEKEVER
Presentation at Net Futures 2015 Conference	2015/03/25	DUTH
Presentation at WWIC 2015	2015/05/25	DUTH
Press Release	2015/06/18	DUTH
Microblogging Video	2015/06/18	Copelabs
COPELABS Openday Poster	2015/06/18	Copelabs
Presentation at ICNRG Meeting 2015	2015/07	UCL
Presentation at Open ICN Workshop Oct 2015	2015/10/30	UCL
DUTH Facebook page	2015-2016	DUTH
Presentation at ICNRG on January 2016, Paris	2016/01	UCL
Oi! Application	2016/04/06	Copelabs
SOCIO Framework	2016/04/06	Copelabs
PerSense Mobile Light – Presentation and beta application via Google Apps	2016/04/12	Senception
UMOBILE newsletter Vol.1 Issue 1	2016/04/29	AFA Systems
Presentation at WWIC 2016	2016/05/25	DUTH
Introductory UMOBILE Rollup at ExpoEmergenze 2016	2016/06/03	AFA Systems
Poster of Cloudrone at ExpoEmergenze 2016	2016/06/03	UCAM
Presentation at ExpoEmergenze 2016	2016/06/03	AFA Systems

Description	Date	Partner
Presentation at ICNRG on July 2016, Berlin	2016/07	UCL
Presentation at Multi-Service Networks Workshop on 7 July 2016, Cosener's House	2016/07/07	UCL
Crawdad traces	soon	Senception

7 Planned events

Title	Data	Partners	Location	Target (category of persons reached)	Number of persons reached (estimated)	O/P*
ACM SIGCOMM Global Access to the Internet for All (GAIA) Workshop	2016/08/26	UCAM	Florianopolis, Brazil	Academia	100	O
The second International Workshop on Future Internet Architecture for Developing Regions (FI4D), in conjunction with IEEE CCNC	2017/01/08	UCAM	Las Vegas, USA	Academia	50	O
The first International Workshop on Future Internet Architecture for Developing Regions (FI4D), in conjunction with IEEE CCNC	2016/01/09	UCAM	Las Vegas, USA	Academia	50	O

*Organisation / Participation

8 Conclusions

This Report summarizes the dissemination activities held in the scope of the UMOBILE project, as outlined in the Dissemination Plan issued at the beginning of the project. The relevant audience has been classified in target groups and reached with appropriate dissemination tools. The overall purpose of the dissemination activities has been to spread constantly updated information about project findings and relevant results. The dissemination actions developed during project included:

- the public website (www.umobile-project.eu) opened at the beginning of the project and regularly updated about the project evolution
- a number of academic events and workshops where the academic partners presented the different research topics as addressed in the project
- a significant number of high-level academic papers, some of which best paper award in the conference
- some activities targeted to a general audience (non academic): newsletter, presence on Facebook and the participation to a tradeshow (in Italy).

The last group of activities will grow as long as the project will enter in a more applicative phase and present its results in the form of demo trials. This phase will be important to meet real UMOBILE users and gather their opinions, in order to move the project outcomes closer to real exploitation opportunities on the market.

