



Grant Agreement No.: 644663
Call: H2020-ICT-2014-1
Topic: ICT-05-2014
Type of action: RIA



architectuRe for an Internet For Everybody

D5.3: Dissemination Report (v1)

Work package	WP 5
Task	Task 5.3
Due date	31.07.2016
Submission date	22.09.2016
Deliverable lead	Martel
Version	v1.0.
Authors	Alicia Higa, Miguel Alarcon, Martin Potts (Martel)
Reviewers	Renaud Sallantin, Fabrice Arnal (TAS)

Abstract	This report lists information on all dissemination actions throughout the duration of the project.
Keywords	Dissemination, Communication, Presentations, Publications

Disclaimer

The information, documentation and figures available in this deliverable, is written by the RIFE (architectuRe for an Internet For Everybody) project consortium under EC grant agreement 644663 and does not necessarily reflect the views of the European Commission. The European Commission is not liable for any use that may be made of the information contained herein.

Copyright notice

© 2015 - 2018 RIFE Consortium

Project co-funded by the European Commission in the H2020 Programme		
Nature of the deliverable:		R*
Dissemination Level		
PU	Public, fully open, e.g. web	✓
CI	Classified, information as referred to in Commission Decision 2001/844/EC	
CO	Confidential to RIFE project and Commission Services	

* R: Document, report (excluding the periodic and final reports)

DEM: Demonstrator, pilot, prototype, plan designs

DEC: Websites, patents filing, press & media actions, videos, etc.

OTHER: Software, technical diagram, etc.

EXECUTIVE SUMMARY

The vision of RIFE is to address the problem of providing affordable and sustainable access to the Internet by realising an *architecture for an Internet for everybody* that enables access to information and services at economically sustainable price points unmatched by today's technologies, while also offering solutions capable of dealing with existing challenges, such as intermittent connectivity, existing in very diverse and dynamic scenarios. In this perspective, the RIFE project aims to provide innovative concepts and technologies with an important potential for broad adoption and exploitation.

RIFE is expected to provide the following major outcomes:

1. The definition of a *unifying architecture* with clear interfaces provided to application developers. The focus will be placed on the convergence between emerging technologies such as ICN, DTN and caching mechanisms;
2. A set of service and application functions that will enable the full utilisation of the RIFE architecture in real-life settings;
3. The development of *novel dissemination strategies* that jointly optimise available bandwidth, storage and computation resources, integrating diverse network environments into the single RIFE architecture.

To achieve these ambitious objectives, the plan is to build upon:

- A RIFE prototype platform that will first be implemented and then tested against Key Performance Indicators (KPI) in both testbed and emulation settings;
- An operational trial that will be set up within a community network that is linked via real-life satellite connectivity.

Finally, an accurate evaluation of the commercial viability of the RIFE platform will be realised to provide the basis for a sustainable value chain, and establish RIFE as a key driver in the wider community of practitioners and researchers in this field. Dissemination and communication activities are crucial to ensure this ambition vision to be achieved.

The RIFE work package 5 (WP5) is dedicated to “Dissemination and Exploitation” and aims at defining, maintaining and coordinating the appropriate mechanisms and tools ensuring broad visibility of the project's work and results

The purpose of this document is to list the information about the main dissemination actions during M1-M18 of the project.

TABLE OF CONTENTS

EXECUTIVE SUMMARY	3
TABLE OF CONTENTS.....	4
TABLE OF FIGURES	5
1 INTRODUCTION	6
2 LIST OF DISSEMINATIONS DURING M1-M18.....	8
2.1 Disseminations performed during the reporting period (M1-M18).....	8
2.1.1 Leaflet and Poster	8
2.1.2 Website	10
2.1.3 Social Media.....	12
2.1.4 Conferences and workshops.....	12
2.1.5 Journal articles	15
2.1.6 Standardization efforts	16
2.1.7 Other dissemination activities	17
2.2 Disseminations already scheduled for the future	19
3 CONCLUSIONS	21

TABLE OF FIGURES

Figure 1: Dissemination reporting page	8
Figure 2: The latest RIFE Leaflet: Internal and external page screenshots.....	9
Figure 3: The latest RIFE Poster.....	10
Figure 4: Main homepage of the project	11
Figure 5: RIFE Twitter Account	12

1 INTRODUCTION

The RIFE dissemination strategy has remained unchanged since the beginning of the project. It embraces two main objective levels: one internal and one external.

The **internal objective** of the RIFE dissemination strategy is to provide tools and means of communication to facilitate collaboration between the partners and effectively promote the RIFE work and results.

The **external objective** of the RIFE dissemination strategy is to make known as widely as possible the findings and recommendations of the RIFE project, with the purpose of ensuring that end-users will be able to access the services provided by the project and the stakeholders will support/promote/adopt the RIFE technology. The RIFE stakeholders belong to the following 4 categories:

1. Academia/Research institutions Academia/Research institutions

This category includes organisations whose primary focus is higher education and research, such as universities, other academic organisations and research institutes. The topics of interest for research can be categorized into two main fields:

- Network Technology: Information Centric Networking (ICN), Delay Tolerant Networking (DTN), and Caching technologies;
- Network Economy: Socio-economics.

The main communication and dissemination means for this category of stakeholders are scientific publications, presentations and talks at related conferences and workshops. Wherever possible (according to publishers' copyright policies) the publications are made publicly available via the project's web pages, or archives designed specifically for this purpose (e.g. Universities' own archives, arXiv.org e-Print archive, etc.).

2. Industry

Industrial stakeholders include innovative private companies providing end-users solutions, as well as manufacturers, suppliers, distributors, service providers, vendors, system integrators, at the frontline of addressing the need for a ubiquitous Internet.

As well as providing technical solutions for industry, RIFE's ambition is to offer new employment opportunities and enable the emergence of new companies/spinoffs. For example, opportunities to become a Virtual Network Operator are expected and will be elaborated upon as part of the exploitation activities.

3. Government

This target group includes representatives (including regulators) from different governmental organisations such as the European Commission, inter-governmental organisations, member state governments or local governments. Indeed, in many sensitive aspects related to the large spread of the Internet, close relations with the local governments need to be developed.

4. Media and broad end-user audience

This category includes the major media, including television, radio, newspapers, magazines, journals, blogs, and websites, which are specifically dedicated to promote the adoption of innovative ICT technologies to the broad public.

This target group is interesting for RIFE in order to reach, on one hand, journalists, bloggers and social media specialists and, on the other hand, to reach as many potential end-users of RIFE's technology as possible, namely citizens for which the project's outcomes could facilitate access to the Internet, which is of high relevance especially in developing countries and under-served regions of developed countries.

The purpose of this document is to list information about the main dissemination actions during M1-M18 of the project.

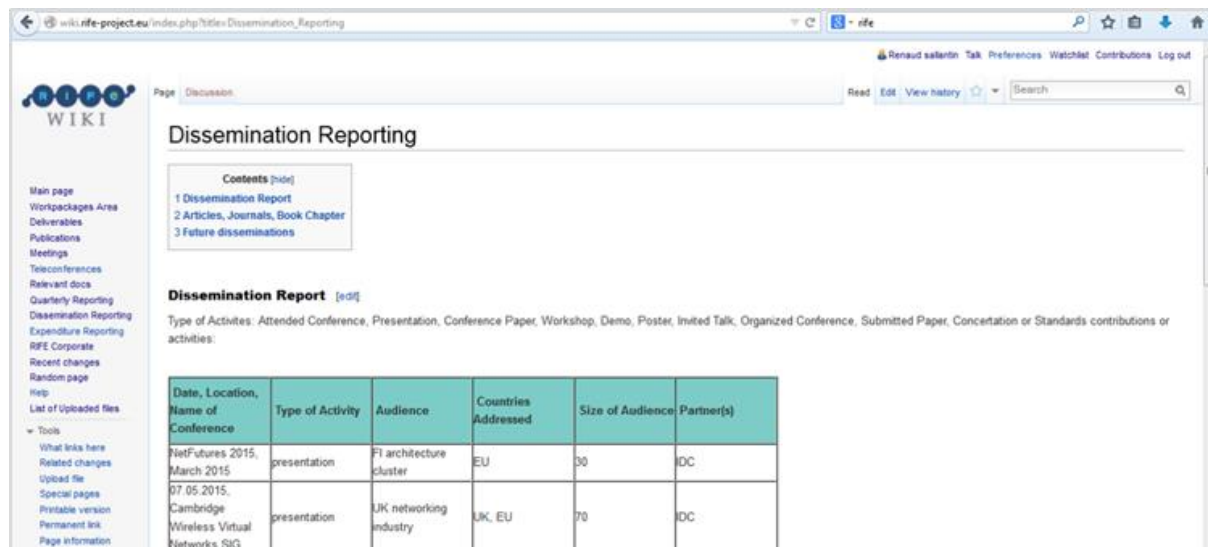
The document is structured as follows:

Section 2 contains the lists of disseminations that have taken place until the end of July 2016 (M18) and those that have been accepted for future presentation/publication.

Some final concluding remarks are made in Section 3 "Conclusions".

2 LIST OF DISSEMINATIONS DURING M1-M18

Partners report the disseminations they have performed through the monthly teleconference calls and the dedicated area on the project Wiki. The following Figure 1 shows the dissemination reporting page of the Wiki:



Date, Location, Name of Conference	Type of Activity	Audience	Countries Addressed	Size of Audience	Partner(s)
NetFutures 2015, March 2015	presentation	FI architecture cluster	EU	30	IDC
07.05.2015, Cambridge, Wireless Virtual Networks SIG	presentation	UK networking industry	UK, EU	70	IDC

Figure 1: Dissemination reporting page

2.1 Disseminations performed during the reporting period (M1-M18)

At the beginning of the project, dissemination activities concentrated on producing publicity material to describe the project's goals and on achieving visibility in the relevant communities the RIFE partners are actively involved in. This was achieved through a series of actions as explained in the following sub-sections.

2.1.1 Leaflet and Poster

WP5 partners created a leaflet and a poster (Figures 2 and 3 below) in order to inform and present the project's objectives, core concept and planned outcomes. The leaflet and poster outline the RIFE objectives and its main activities in a simple and intuitive way, and have been used to introduce the project to relevant stakeholders. These materials have been distributed at events attended by the project partners and made available in electronic form via the project web pages.

The figure displays two screenshots of the RIFE project leaflet. The left screenshot shows the project's vision and key details, while the right screenshot details the project's concept, outcomes, targets, business models, and technical agenda.

Left Screenshot (External Page):

- RIFE Logo:** R I F E
- Vision:** The vision of RIFE is to address the problem of providing affordable and sustainable access to the Internet by realising an architecture for an Internet for everybody. Enabling access to information and services at economically sustainable price points unmatched by today's technologies.
- Project Title:** Architecture for an Internet for everybody (RIFE)
- Duration:** 1st February 2015 - 31st January 2018
- EC Contribution:** € 2'930'626.25
- Programme:** ICT-2014-1
- Project coordinator:** Martin Potts, Martel
- Consortium:**
 - MARTEL
 - guifi-net
 - avanti
 - AI
 - TUM (Technische Universität München)
 - UNIVERSITY OF CAMBRIDGE
 - ThalesAlenia space
 - INTERDIGITAL
- Website:** rife-project.eu
- Funding:** RIFE project is funded by the EU's Horizon2020 programme under grant agreement N°: 644663

Right Screenshot (Internal Page):

- RIFE Logo:** R I F E
- Architecture for an Internet for everybody**
- CONCEPT:** Create an architecture for an Internet for everybody that meets the challenges of today's technologies limitations:
 - providing affordable price points,
 - providing sustainable performance whatever the varying environmental challenges.
- OUTCOMES:**
 - The definition of a unifying architecture,
 - Development and deployment of novel dissemination strategies that jointly optimise bandwidth, storage and computation resources available
 - A set of service and application functions that will enable full utilisation of the RIFE architecture in real-life settings.
- TARGETS:** RIFE touches on a number of areas that go beyond pure networking and Internet-related aspects; given the fundamental role that the Internet plays in modern societies and economies. As digital inclusion is desirable for all nations, developed and developing RIFE's benefits are likely to be international and wide-society.
- Architecture Diagram:** Shows a world map with various network nodes (satellite, ground stations, routers, Wi-Fi) connected to an 'Internet Service Provider Network' and 'RIFE GateWay'. Below the map are icons for 'Businesses', 'Private Networks', and 'Services & Apps'.
- BUSINESS MODELS:**
 - Opportunities to become Virtual Network Operators
 - Raise and sale of underutilized infrastructure
 - Introduction of payments facilities allowing sales of additional bandwidth and GoS
- TECHNICAL AGENDA:**
 - Starting point: academic research on ICN and DTN
 - Research of a new approach combining ICN, DTN and caching
 - Initial trial deployments to get real users' experience of the Internet for everybody

Figure 2: The latest RIFE Leaflet: Internal and external page screenshots (updated with TUM's logo)

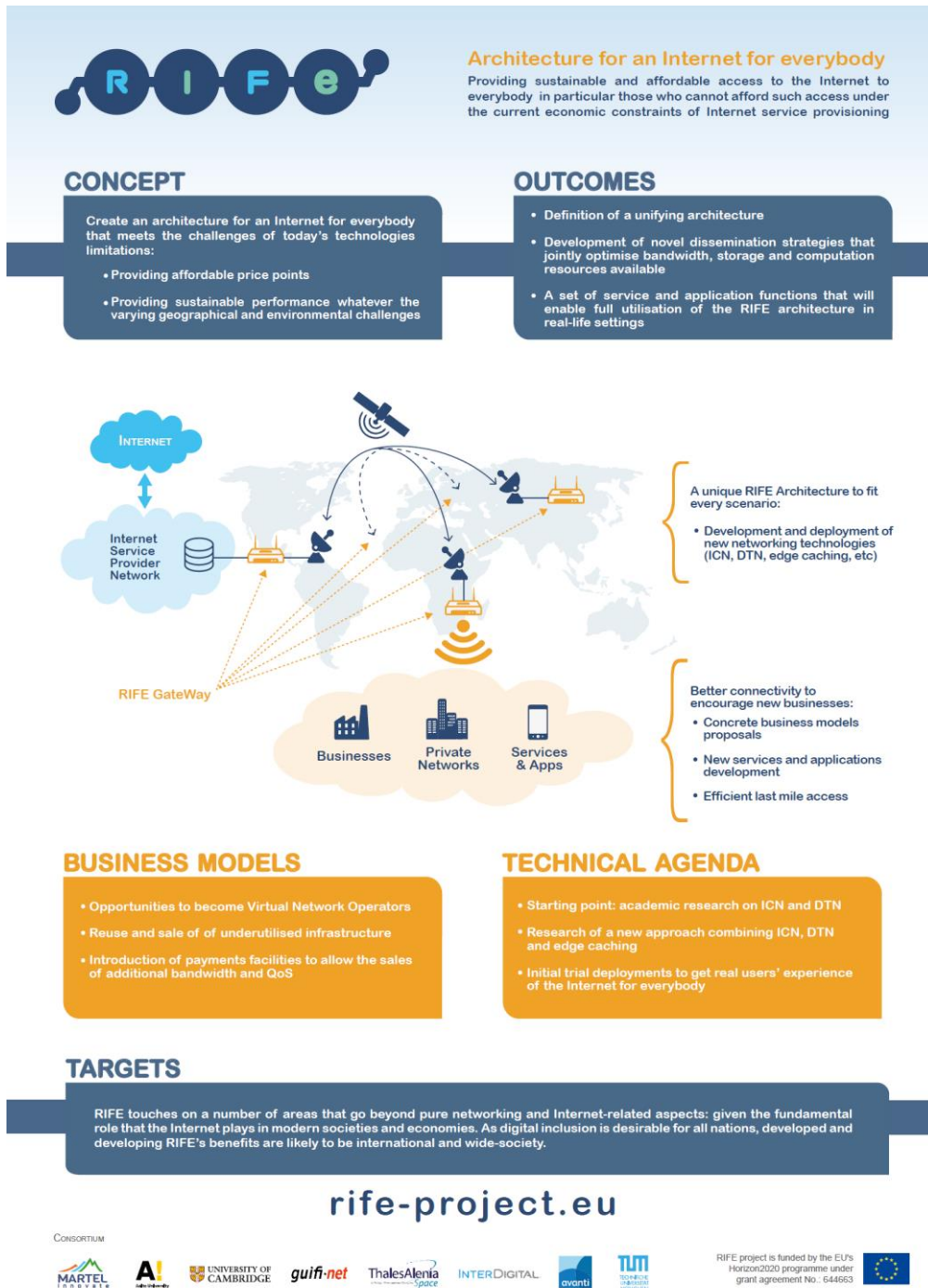


Figure 3: The latest RIFE Poster (updated with TUM's logo)

2.1.2 Website

The project's website (<http://rife-project.eu>) was set up in Month 1. It was designed to be the main entry point for those looking for information about the project; its objectives and outputs, and to serve as a reference point for the project in the broad ICT community. The specific focus is on presenting the main R&D and Innovation achievements and outcomes to the target stakeholders, including the general public.

The objectives and functionalities of the public website have been described in deliverable D5.1 “Public and Internal Website”, which was produced in April 2015 (M3).

As a dynamic dissemination and communication tool, the public website is connected to the various social media channels (see Section 2.1.3) and is being regularly updated with the most relevant project information about outcomes and results, including papers, presentations, public deliverables, news related to upcoming activities, such as participation to - and presentations at - conferences, workshops, etc.

The following Figure 4 shows an updated view of the main homepage of the project:

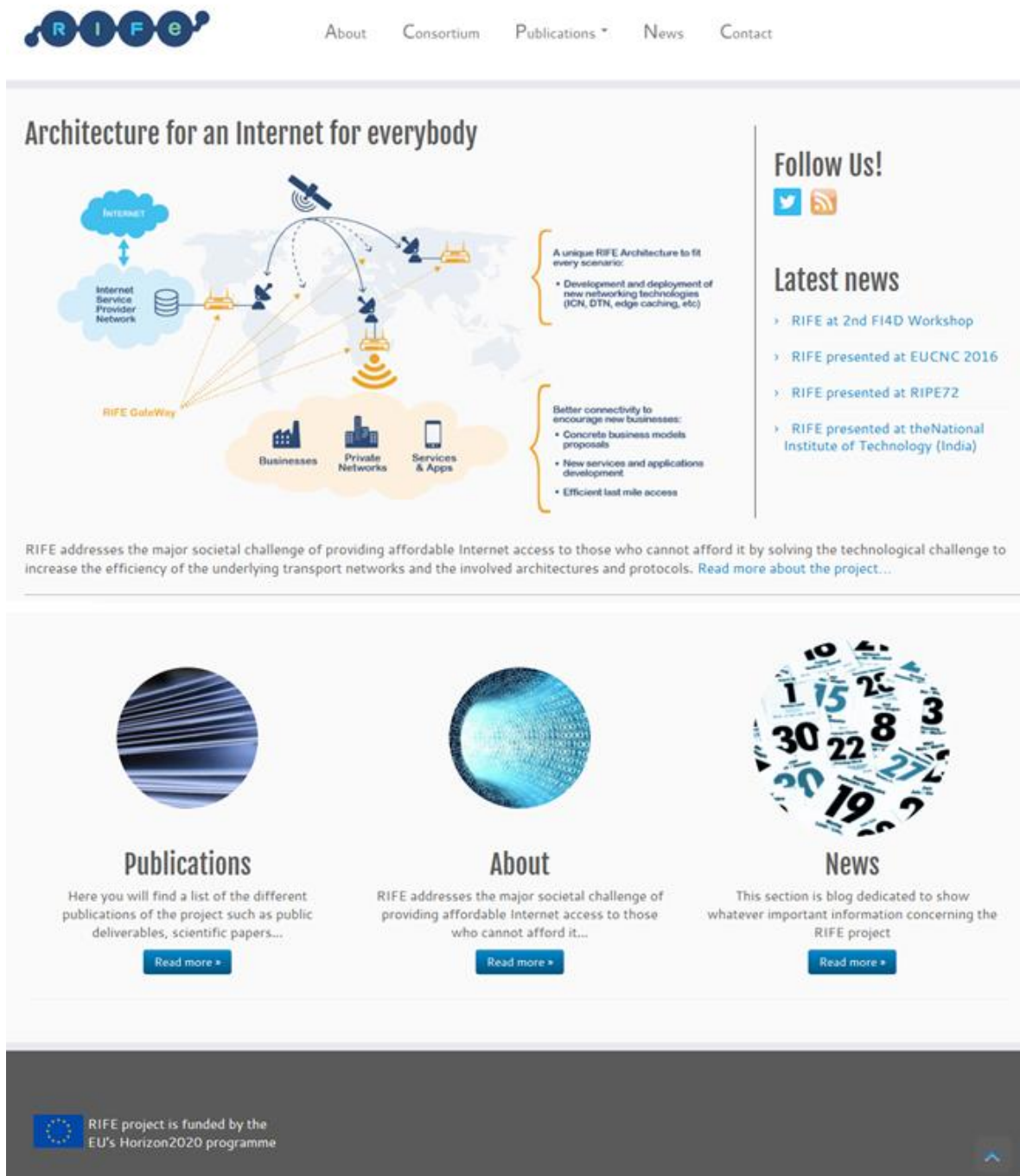


Figure 4: Main homepage of the project

As the main dissemination and communication channel, the RIFE website is continuously updated, and will be maintained also for at least one year after the end of the project, so as to effectively provide a clear and appealing communication interface that is easily navigable with guaranteed access to all relevant public information.

2.1.3 Social Media

The social media activity has concentrated on Twitter to easily and rapidly spread information about the project's and various partners' activities. This social media is a powerful tool to disseminate the most relevant information about the project by reaching communities directly related to the ongoing activities.

A Twitter account (@RIFE_project) was set up at the beginning of the project (M1).

The following Figure 5 shows the homepage of the RIFE's Twitter account:



Figure 5: RIFE Twitter Account

2.1.4 Conferences and workshops

To continue the RIFE scientific legitimacy, a large number of presentations have been made at workshops and conferences.

The initial dissemination strategy identified the following selection of conferences:

- ACM SIGCOMM, ACM MobiCom, ACM Sigmetrics ;
- IEEE Infocom, IEEE CCNC;
- ACM CoNext, ACM IMC;
- PAM.

This target list has proven to be reflected in the successful acceptances of papers, as can be seen in the list below of 19 papers that have been presented in **conferences and workshops** and published in the corresponding proceedings:

Date, Place	Type	Type of audience	Approx. size of audience	Countries addressed	Partner involved
February, 2015, Almaty, Kazakhstan	Presentation at Embracing Global Computing in Emerging Economies (EGC) Workshop: "Could we Fit the Internet in a Box?"	Researchers, Academics, Industry	100s	World	A. Sathiseelan (UCAM), J. Ott (TUM), G. Tyson (QMUL)
13 th March, 2015, Oxford	Presentation at Ethics in Internet Engineering Research project Workshop: "Does the Internet need everybody?"	Philosophers, Ethicists, Researchers	30	World	A. Sathiseelan (UCAM)
18 th March, 2015, Queen Mary University of London	Presentation at Workshop: "Networking for Development"	Researchers, Academics	60	World	A. Sathiseelan (UCAM)
25 th -26 th March, 2015, Brussels	Presentation of RIFE to the "FI Architecture Cluster" at NetFutures!	Researchers, Academics, Industry	30	Europe	D. Trossen (IDC)
27 th April, 2015, Hong Kong	Presentation at IEEE INFOCOM Smart Data Pricing Workshop (SDP 2015): "Exploring the Role of Smart Data Pricing in Enabling Affordable Internet Access"	Researchers, Academics, Industry	50	World	A. Sathiseelan (UCAM) G. Tyson (QMUL) S. Sen (Minnesota Uni)
7 th May, 2015, Cambridge	Presentation at Cambridge Wireless Virtual Networks SIG: "New approaches to multi-tenant networking"	Researchers, Academics, Industry	50-60	UK, EU	D. Trossen (IDC)

	through software-based networks”				
19 th May, 2015, Nicosia	Presentation of RIFE at Cyprus Embraces Space 2015	Researchers, Academics, Industry	40	Cyprus	M. Fotiou (Avanti)
27 th -30 th June, 2015, Athens, Greece	Presentation at EUCNC Conference: “Value Network Analysis in a Low-cost and Affordable Internet”	Researchers, Academics	80	World	J. Benseny, H. Hämmäinen (AALTO)
17 th -21 st August, 2015, London	Presentation at NS Ethics workshop at SIGCOMM 2015: "Does the Internet deserve everybody?"	Researchers, Academics, Industry	50	World	A. Sathiaselan (UCAM) Y. Elkhatib (Lancaster Uni) G. Tyson (QMUL)
30 th September, 2015, San Francisco	Best Conference Paper at ACM ICN 2015: “Pro-Diluvian: Understanding Scoped-Flooding for Content Discovery in Information-Centric Networking”	Researchers, Academics, Industry	125	World	L. Wang, A. Sathiaselan, J. Crowcroft (UCAM) J. Ott (AALTO) S. Bayhan, J. Kangasharju (Uni Helsinki)
9 th -12 th January, 2016, Las Vegas	Presentation at IEEE CCNC 2016: “Inferring network infrastructural behaviour from wireless connectivity data”	Researchers, Academics, Industry	100s	World	Z. Giliani, A. Sathiaselan, J. Crowcroft (UCAM) V. Pejovic (Ljubljana Uni)
9 th -12 th January, 2016, Las Vegas	Presentation at IEEE CCNC 2016: “Assisted network discovery for next generation wireless networks”	Researchers, Academics, Industry	100s	World	A. Arcia-Moret, A. Sathiaselan (UCAM) A. Araujo (Centro Nacional de Desarrollo e Investigaci3n en Tecnolog3as Libres) J. Aguilar (Universidad de Los Andes) L. Molina (Institut Telecom)
20 th -22 nd January, 2016, Cortina d’Ampezzo,	Presentation at IEEE WONS 2016: “Intelligent Network Discovery for Next	Researchers, Academics, Industry	50	Europe	A. Arcia-Moret, A. Sathiaselan (UCAM) A. Araujo (Centro

Italy	Generation Community Wireless Networks”				Nacional de Desarrollo e Investigaci3n en Tecnolog3as Libres) J. Aguilar (Universidad de Los Andes) L. Molina (Institut Telecom)
3 rd March, 2016, Trichy, India	Presentation at the National Institute of Technology Conference: “Networking for Development”	Researchers, Academics	100s	India	A. Sathiaselan (UCAM)
17 th -18 th March, 2016, Trieste, Italy	Presentation at the Workshop on New Frontiers in Internet of Things: “Information Centric Networking and The Internet of Things”	Researchers, Academics, Industry, Regulators	30-40	Europe	A. Arcia-Moret (UCAM)
17 th -18 th March, 2016, Trieste, Italy	Presentation at the Workshop on New Frontiers in Internet of Things: “ICN and IoT”	Researchers, Academics, Industry, Regulators	30-40	Europe	A. Arcia-Moret (UCAM)
11 th -15 th April, 2016, Montreal, Canada	Presentation at WWW 2016: “Pushing the frontier: Exploring the African Web Ecosystem.”	Researchers, Academics, Industry	100s	World	A. Sathiaselan (UCAM) R. Fanou (IMDEA) P. Francois (Cisco) G. Tyson (QMUL)
10 th -13 th May, 2016, Austria	Presentation at NOSSDAV 2016: “Impact of Duration on Active Video testing*”	Researchers, Academics, Industry	40	Europe	S. Ahsan, V. Singh (AALTO) J. Ott (TUM)
23 rd -27 th May, 2016, Copenhagen, Denmark	Presentation at RIPE72: “GAIA-IRTF on-going work about Alternative Network Deployments and the vision of RIFE”	Researchers, Academics, Industry	50	Europe	A. Arcia-Moret (UCAM)

2.1.5 Journal articles

The initial dissemination strategy identified the following journals that would be targeted:

- IEEE/ACM Transactions on Networking;

- Computer Networks;
- IEEE Communication Magazine;

This target list has proven to be very accurate, as can be seen from the 2 articles that have been published in **scientific journals**:

Date, Place	Type	Type of audience	Approx. size of audience	Countries addressed	Partner involved
8 th July, 2015	IEEE Communications, Journal article: "Exploiting the Power of Multiplicity: A Holistic Survey of Network-Layer Multipath"	Researchers, Academics, Industry	100s	World	A. Sathiaselalan, J. Crowcroft UCAM J. Qadir, A. Ali (NUST) K. Yau (Sunway Uni)
1 st January, 2016	Journal editorial paper at ACM SIGCOMM CCR: "Towards an Information Centric Networking Architecture for Universal Internet Access"	Researchers, Academics, Industry	100s	World	D. Trossen (IDC) A. Sathiaselalan (UCAM) J. Ott (TUM)

2.1.6 Standardization efforts

Regarding RIFE's ambition to be broadly deployed, monitoring but also contributing to standardization bodies is an essential task. We identified several standardization organisations that will be useful for pushing the RIFE's vision forward and push its outcomes for interoperable systems. Specifically, the consortium's targets are:

- ETSI: European Communication Standard Institute with the goal of introducing satellite-related work, specifically regarding backhaul reservation, allocation and scheduling solutions into suitable working groups within ETSI;
- IETF: Internet Engineering Task Force, with the goal of introducing content placement and best-effort traffic engineering solutions into suitable working groups. In particular we aim at injecting key contributions into the ICNRG (Information-centric Networking RG), specifically on the intersection of ICN and DTN as well as utilization of IOverICN solutions in RIFE.
- IRTF: Internet Research Task Force, provides a suitable route for evangelizing the vision and the solutions of RIFE towards a practitioner audience in the space of global access. Specifically, the GAIA working group is a key forum for RIFE, also due to the fact that RIFE's Dr. Arjuna Sathiaselalan is the co-chair. We intend to increase the visibility of RIFE through informational and trial-related drafts but also architectural work that strives

towards laying out key architectural foundations for a Future Internet for Everybody.

The following **standards contributions** have been made. One IRTF draft (which led to an RFC) have been published:

Date	Action	Reference	Partners
19 th -24 th July, 2015, Prague, Czech Republic	Presentation at ICNRG of the IP-over-ICN story		S. Robitzsch (IDC)
19 th -24 th July, 2015, Prague, Czech Republic	IRTF Presentation at the IETF 93 TVWS	“Challenges and Experiences from Latin America and Africa”	A. Arcia-Moret (UCAM)
January, 2016	Internet draft, IRTF GAIA Working Group	draft-irtf-gaia-alternative-network-deployments-03J : Alternative Network Deployments. Taxonomy, characterization, technologies and Architectures	J. Saldana (Uni Zaragoza) A. Arcia-Moret, A. Sathiseelan (UCAM) B. Braem (iMinds) M. Zennaro, E. Pietrosemoli (ICTP)
July 2016, Berlin	Presentation: "Object security and protected object manipulation in caches"	ICNRG meeting at IETF97	J. Ott (AALTO)
July 2016, Berlin	Presentation: "FLIPS"	ICNRG meeting at IETF97	D. Trossen (IDC)
July 2016, Berlin	Addition of a Use Case description for UDP multicast	IETF97, BIER WG	D. Trossen (IDC)
July 2016	RFC 7962 issued: This document presents a taxonomy of a set of "Alternative Network Deployments" that emerged in the last decade with the aim of bringing Internet connectivity to people or providing a local communication infrastructure to serve various complementary needs and objectives. They employ architectures and topologies different from those of mainstream networks and rely on alternative governance and business models.		J. Saldana (Uni Zaragoza) A. Arcia-Moret, A. Sathiseelan (UCAM) B. Braem (iMinds) M. Zennaro, E. Pietrosemoli (ICTP)

2.1.7 Other dissemination activities

Beyond the trial engagements planned within RIFE at the facilities of guifi.net, RIFE has been

actively seeking opportunities for demos and showcasing in other environments. Specifically, the environment provided by Bristol-Is-Open (BIO), a unique joint venture between Bristol Council and Bristol University, has been explored as an experimental playground and engagement tool with future cities and community stakeholders.

Date, Place	Type	Type of audience	Approx. size of audience	Countries addressed	Partner involved
21 st -22 nd May, 2015, Aalto University, Helsinki, Finland	Technology Fair, where RIFE was presented among the product development projects on <i>Energy-sustainable autonomous network devices</i>	Researchers, Academics, Industry	1'000	Finland	AALTO
29 th September, 2015, Stockholm	Poster at IEEE DySpan Future Directions in Spectrum Management Research: "Open and Regionalised Spectrum Repositories for Emerging Countries"	Researchers, Academics, Industry	50	World	A. Arcia-Moret, A. Sathiaseelan (UCAM) F. Rondon (Universidad de Los Andes) M. Zennaro, E. Pietrosemoli (ICTP) D. Johnson (CSIR)
1 st -2 nd December, 2015, London	Poster at ACM-DEV: "Octopus: A Zero-Cost Architecture for Stream Network Monitoring"	Researchers, Academics, Industry	50	World	A. Arcia-Moret, A. Sathiaseelan (UCAM) J. Gomez (Universidad de Los Andes)
22 nd -25 th February, 2016, Barcelona	Joint demonstration with POINT at MWC	Researchers, Academics, Industry, Regulators	1000s	World	D. Trossen et al (IDC)
17 th -18 th March, 2016, Trieste, Italy	Co-Organised Workshop on New Frontiers in Internet of Things,	Researchers, Academics, Industry, Regulators	30-40	Europe	A. Sathiaseelan (UCAM)
18 th May 2016, Nicosia, Cyprus	RIFE Booth at the "Cyprus Embraces Space 2016" event	Researchers, Academics, Industry	100	Europe	M. Fotiou (AVANTI)
29 th June-1 st July, 2016, Shanghai	Joint demonstration with POINT at MWC	Researchers, Academics, Industry, Regulators	1000s	World	Sung-Yeon Kim (IDC, Asia)

29 th -30 th June, 2016. London	Joint demonstration with POINT at 5G World	Researchers, Academics, Industry, Regulators	1000s	World	D. Trossen (IDC)
---	--	--	-------	-------	------------------

2.2 Disseminations already scheduled for the future

In this sub-section we provide an outline of the planned dissemination activities for the upcoming months on the basis of the emerging dissemination opportunities.

Besides continuing to update the website and broadly advertising the RIFE's achievements via the project web pages and social media channels, participation to relevant events will also be an important channel to directly reach the target stakeholders. Moreover, liaisons with related EC projects will continue and will allow for synergies to be created in the overall R&D scene.

Date, Place	Type	Type of audience	Partner involved
SIGCOMM GAIA Workshop, 22 nd -26 th August, 2016, Florianópolis, Brazil	Presentation: "Open and regionalised spectrum repositories for emerging countries"	Researchers, Academics, Industry	A. Arcia-Moret, A. Sathiaselan (UCAM) F. Rondon (Universidad de Los Andes) M. Zennaro, E. Pietrosevoli (ICTP) D. Johnson (CSIR)
SIGCOMM GAIA Workshop, 22 nd -26 th August, 2016, Florianópolis, Brazil	Presentation: "Making Community Networks economically sustainable, the guifi.net experience"	Researchers, Academics, Industry	A. Sathiaselan (UCAM) R. Baig Viñas, L. Dalmau, R. Roca (guifi.net) L. Navarro, F. Freitag (UPC)
27 th European Regional Conference of the International Telecommunications Society, 7 th -11 th September, Cambridge, UK	Presentation: "Bottleneck analysis of the mobile Internet diffusion in Emerging Markets"	Researchers, Academics	J. Benseny, B. Finley, H. Hämmäinen (AALTO)
20 th -22 nd September, 2016, Munich	Joint demonstration with POINT at the ETSI Mobile Edge Computing PoC event	Researchers, Academics, Industry, Regulators	D. Trossen (IDC)
ACM ICN 2016, 26 th -28 th September, 2016, Kyoto, Japan	Presentation: "On Content Indexing for Off-Path Caching in Information-Centric Networks"	Researchers, Academics, Industry	L. Wang, A. Sathiaselan, J. Crowcroft (UCAM) J. Ott (AALTO) S. Bayhan,

			J. Kangasharju (Uni Helsinki)
January, 2017, Cambridge	GAIA Spectrum Management Workshop (joint effort between some EU community network projects e.g. Netcommons, MAZI, RIFE)	Researchers, Academics, Industry, Regulators	A. Arcia-Moret, A. Sathiseelan (UCAM) L. Navarro (UPC) M. Zennaro, E. Pietrosevoli (ICTP)

It can be seen from the table above that RIFE dissemination will continue to target researchers, traditional operators, community networks, governments and regulators.

In this respect, AALTO has also made a contribution to the governmental competition authority in Finland regarding mobile access costs in rural areas (in Finnish language).

As the Field Trial becomes established, there will also be more opportunities for producing videos and other attractive publicity material.

3 CONCLUSIONS

The RIFE dissemination strategy and targeted stakeholders have remained unchanged since the beginning of the project. The dissemination strategy embraces two main objective levels: one internal and one external.

The **internal objective** of the RIFE dissemination strategy is to provide tools and means of communication to facilitate collaboration between the partners and effectively promote the RIFE work and results.

The **external objective** of the RIFE dissemination strategy is to make known as widely as possible the findings and recommendations of the RIFE project, with the purpose of ensuring that end-users will be able to access the services provided by the project and the stakeholders will support/promote/adopt the RIFE technology. The RIFE stakeholders belong to the following 4 categories:

1. Academia/Research institutions

This category includes organisations whose primary focus is higher education and research, such as universities, other academic organisations and research institutes. The topics of interest for research can be categorized into two main fields:

- Network Technology: Information Centric Networking (ICN), Delay Tolerant Networking (DTN), and Caching technologies;
- Network Economy: Socio-economics.

The main communication and dissemination means for this category of stakeholders are scientific publications, presentations and talks at related conferences and workshops. Wherever possible (according to publishers' copyright policies) the publications are made publicly available via the project's web pages, or archives designed specifically for this purpose (e.g. Universities' own archives, arXiv.org e-Print archive, etc.).

2. Industry

Industrial stakeholders include innovative private companies providing end-users solutions, as well as manufacturers, suppliers, distributors, service providers, vendors, system integrators, at the frontline of addressing the need for a ubiquitous Internet.

As well as providing technical solutions for industry, RIFE's ambition is to offer new employment opportunities and enable the emergence of new companies/spinoffs. For example, opportunities to become a Virtual Network Operator are expected and will be elaborated upon as part of the exploitation activities.

3. Government

This target group includes representatives (including regulators) from different governmental organisations such as the European Commission, inter-governmental organisations, member state governments or local governments. Indeed, in many sensitive aspects related to the large spread of the Internet, close relations with the local

governments need to be developed.

4. Media and broad end-user audience

This category includes the major media, including television, radio, newspapers, magazines, journals, blogs, and websites, which are specifically dedicated to promote the adoption of innovative ICT technologies to the broad public.

This target group is interesting for RIFE in order to reach, on one hand, journalists, bloggers and social media specialists and, on the other hand, to reach as many potential end-users of RIFE's technology as possible, namely citizens for which the project's outcomes could facilitate access to the Internet, which is of high relevance especially in developing countries and under-served regions of developed countries.

In terms of **external** dissemination, this document has presented the key activity areas in which partners are playing a major role. From the very beginning of the project, the partners have been active in several ways and pursued various promotional activities, including:

- Creation of the RIFE project **website** – including an internal communication and information exchange wiki-based platform – and promotion via Twitter;
- Several scientific publications at top-notch international **conferences and workshops**;
- Participation at various events to give **presentations/talks** about the projects' main objectives and initial work/achievements;
- Creation of an informative **leaflet** of the project (updated after the inclusion of TUM);
- Creation of a **poster** presenting RIFE's main concept and planned objectives (updated after the inclusion of TUM).

The project has been particularly prominent in the **GAIA Working Group of the IRTF** and partners have also been involved in the **joint organization of workshops** with other projects working in the area of Community Networks. In this respect, the RIFE community network **Field Trial** location near Barcelona has been selected and installation has started.

These activities will continue in the second half of the project, in order to guarantee broad visibility of the project's work and results in the European landscape and beyond so as to engage targeted stakeholders both at the European and at the international level.

The work of WP5 will be closely coordinated with all other RIFE's work packages and details about previous and upcoming dissemination and communication activities will be discussed and reported in D5.9 (at M36) as planned.

In terms of **internal** dissemination activities, partners have met regularly face-to-face to share their achievements and ideas, and also been kept up-to-date with progress through monthly teleconference calls. Some technical meetings took place between partners involved in WPs 2 & 3.