

E3Network



Energy Efficient E-band transceiver for backhaul of the future networks

DELIVERABLE D6.5.3

Report on Dissemination Effort 3

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EXECUTIVE SUMMARY

This deliverable summarizes the dissemination effort done by the E3Network consortium during the period. During the first period, the consortium focused their effort on raising awareness of the project objectives among the general public. Different articles were published in the popular press and technical magazines with this aim. During the second and third period, the E3Network consortium has endeavoured to promote the technical achievements of E3Network within the technical and scientific community. Thus, the results of E3Network have been presented in different conferences around Europe and published in scientific journals.

1. INTRODUCTION

Within the dissemination plan of E3Network described in [1], two major steps were defined in order to fulfil the Communication and dissemination objectives of the project:

- 1. To raise awareness with the largest pool of potential end-users.
- 2. To promote and deepen the understanding of the E3Network project.

The current document describes the dissemination activities that the consortium has performed during the first and second period of the project. Thus, this document is an update to deliverable D6.5.1 and D6.5.2, which summarized the dissemination effort done within the first period and second period, respectively. In the different tables of the current document, the activities of the first and second period are shown in gray; whereas the ones performed in the third period are shown in black.

Within deliverable D6.5.3, the dissemination activities have been classified as activities that raise awareness or activities that aim to deepen the understanding of the project. For all the activities performed, the type of audience of each dissemination activity has been related to the target group of our dissemination plan as follows:

1. "End-users"

The main target group of E3Network consists of the **operators (end-users)** that will buy the point-to-point link that will be built in the project.

2. "Scientific"

The **Technical and Scientific Community** is also interested in the innovations in the design of the physical layer of a transceiver (digital signal processing algorithms, RF design, mixed signal methods, etc.).

3. "Standardization bodies"

E3Network aims to raise awareness of the results of the project among the relevant **Standardization bodies**.

4. "General Public"

On the one hand, we will consider the potential users of the Future Networks (customers of the operators). On the other hand, E3Network will also target the general public interested in ICT technologies.

2. PERFORMED DISSEMINATION ACTIVITIES

2.1 Communication and dissemination for awareness

2.1.1. Raising awareness through the project website and other web 2.0 communication tools

The E3Network website (http://www.ict-e3network.eu) was set up at the beginning of the project. This website has been maintained during the whole project to report project activities, progress and achievements. The main objective of this web-site is to raise awareness of the project results with the largest pool of public. The web-site raises awareness among our end-users, among the scientific community, among standardization bodies and also among the general public.

All news related to the project are published in the web page, in Twitter (@ICT_E3Network) and by means of RSS or Really Simple Syndication (http://www.ict-e3network.eu/rss.xml). A copy of all the news published in the web-site during the first and second period can be found in the Annex A.1 and Annex A.2. Annex A.3 presents a copy of all the news published in the web-site during the third period.

Additionally, the abstracts of conference papers and journal articles are also posted in the web-site. A private area has been established to store all confidential documents of the consortium. This private website is also useful to track the development of the project and coordinate all the tasks done within the project.

Google Analytics and Google's tools for webmasters have been employed to analyse the RSS feeds and public web page use. The Google Analytics feasibility was set up at the beginning of the project. Figure 1 shows the number of different visitors the web page has received throughout the third period.



Figure 1. Number of visitors received in the web page in this period

The absolute number of different visitors during this last period has been 2.835. However, we have had returning visitors, so that the total amount of visits has been of 3.532.

During the third period, 7.679 pages have been visited, with an average of around 2,17 pages per visit. Moreover, nearly 20% of the visitors have been returning visitors, which may imply that users that visited once the project web-site were interested in learning how the project was evolving and returned in a different time.

Figure 2 shows where the visitors are from. We can observe that, during the analysed period, we received visits from 116 countries, thus, compared with the second period, we have received visitors from 47 new countries. From this figure, we can conclude that the project site has been able to reach to a significant number of countries around the world.(116 out of 194) Among the visitors, 8.33% were internet home users (target group: "General Public"), 14.29% were research institutes or universities (target group: "Scientific Community") and 77.38% came from industry. Among all the visitors that came from industry, around 23% were operators (our target group "End-users").

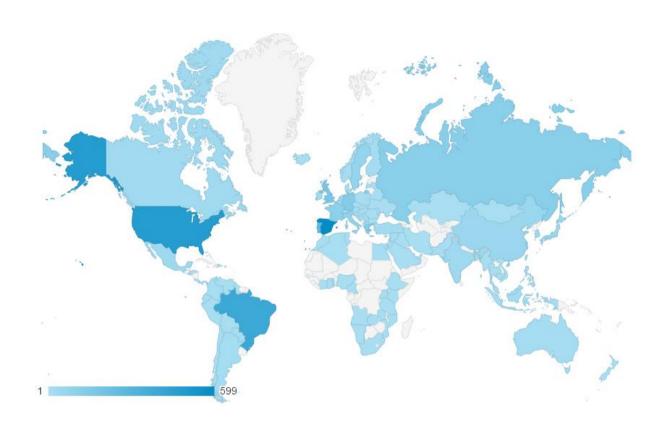


Figure 2. Distribution of the web page visitors throughout the World.

Table 1 shows the web sites that describe the E3Network project and present results of our project. The dissemination effort done within the third period is shown in bold in the table. Besides the E3Network official website, some partners of the consortium describe the main objectives of the project in their own website.

Table 1. E3Network in the internet

| No | Type of activities | Main leader | Title | Date | Place | Type of audience | Size of audience | Countries addressed |
|----|--------------------|----------------|---|--------------|----------|---|------------------|------------------------|
| 1. | Web | CEIT | E3Network web site http://ict-e3network.eu | Dic. 2012 | Internet | End-users, Scientific, Standardization bodies, General Public | - | Whole world |
| 2. | Web | INCIDE | http://www.incide- semi.com/ | Jan. 2013 | Internet | End-users, Scientific, Standardization bodies, General Public | - | Whole world |

| No | Type of activities | Main leader | Title | Date | Place | Type of audience | Size of audience | Countries addressed |
|----|--------------------|----------------|--|--------------|----------|---|------------------|---------------------|
| 3. | Web | ALU-I | http://www.alcatel- lucent.it/ | May. 2013 | Internet | End-users, Scientific, Standardization bodies, General Public | - | Whole world |
| 4. | Web | CEIT | http://www.ceit.es/en/are as-of-r-a-d/electronics-and-communications/integrate d-circuits-ic-design-a-antennas/e3network-energy-efficient-e-band-transceiver-for-the-backhaul-of-future-networks | Feb. 2013 | Internet | End-users, Scientific, Standardization bodies, General Public | - | Whole world |
| 5. | Web | Sivers IMA | http://www.siversima.com /page/2/ | Nov. 2013 | Internet | End-users, Scientific, Standardization bodies, General Public | - | Whole world |
| 6. | Web | SiR | http://www.siliconradar.d e/projects_4_e.html | Mar 2014 | Internet | End-users, Scientific, Standardization bodies, General Public | - | Whole world |
| 7. | Web | ST | http://www.st.com/web/ en/press/it/t3685 | July 2015 | Internet | End-users, Scientific, Standardization bodies, General Public | - | Whole world |

2.1.2. Raising awareness through the media

The E3Network project also advertises our results through the media (newspapers etc). The main goal of these dissemination activities is to communicate the project's results to the general public and the customers of the operators. The general public will be the main beneficiary of the fast broadband access to the Internet that E3Network will allow. Thus, special effort has been done to explain clearly the potential impact of the project in the media. Table 2 shows the pieces of news that have been published in the media during the project. The dissemination effort done within the third period is highlighted in bold in the table. Some of these news have been published in technical magazines or newsletters whose target group is the technical and scientific community. A copy of all the articles

published during the first and second period can be found in the Annex A.1 and Annex A.2. Those articles published during the third period have been compiled in the Annex A.3.

Moreover, the project has prepared a factsheet that summarizes the main objectives and activities of E3Network. This factsheet is also provided in the Annex A.1 to deliverable D6.5.3.

During this period, an advertisement article related to the E3Network project and its objectives have been published on the ST's external and internal web sites and on the international magazines specialized on semiconductor and telecommunication applicative sectors.

Table 2. E3Network in the media

| No | Type of activities | Main leader | Title | Date | Place | Type of audience | Size of audience | Countries addressed |
|----|---|----------------|--|------------------|---|-------------------|------------------|---|
| 1. | Press Releases | CEIT | The E3Network European project, led by CEIT-IK4 begins its activity. | December 2012 | Published in English | General Public | - | EU countries |
| 2. | Articles published in the popular press | CEIT | Ingenieros de CEIT lideran el desarrollo de la nueva red de Internet para la UE | December 2012 | Newspaper Expansion (Published in Spanish) | General public | 179.000 | Spain (and other Spanish- speaking countries) |
| 3. | Articles published in the popular press | CEIT | Ingenieros de CEIT lideran el desarrollo de la nueva red de Internet para la UE | December 2012 | Newspaper Europapress (Published in Spanish) | General public | | Spain (and other Spanish-speaking countries) |
| 4. | Articles published in the popular press | CEIT | Ingenieros del Ceit lideran el desarrollo de la Red promovida por la UE | December 2012 | Newspaper Noticias de Gipuzkoa (Published in Spanish) | General public | 9.035 | Spain |
| 5. | Articles published in the website of popular TV | CEIT | Ingenieros de CEIT lideran el desarrollo de la nueva red de Internet para la UE | December 2012 | Webpage of Telecinco TV (Published in Spanish) | General public | | Spain (and other Spanish- speaking countries) |
| 6. | Articles published in the popular press | CEIT | CEIT-Ik4 participará en el diseño del «internet del futuro» | December 2012 | Newspaper Diario Vasco (Published in Spanish) | General public | 450.000 | Spain |

| No | Type of activities | Main leader | Title | Date | Place | Type of audience | Size of audience | Countries addressed |
|-----|--|----------------|--|------------------|---|----------------------------|------------------|--|
| 7. | Video | CEIT | A new dimension in mobile telecommunications | December 2012 | Youtoube Ceit website | General public, Scientific | | World-wide |
| 8. | Articles published in the popular press | CEIT | Ingenieros de CEIT lideran el desarrollo de la nueva red de Internet para la UE | December 2012 | yahoo (Published in Spanish) | General public | | Spain (and other Spanish- speaking countries)) |
| 9. | Articles published in the popular press | CEIT | Ingenieros de CEIT lideran el desarrollo de la nueva red de Internet para la UE | December 2012 | Structuralia (Published in Spanish) | Scientific | | Spain (and other Spanish- speaking countries) |
| 10. | Articles published in the popular press | CEIT | A new dimension in mobile telecommunications | January 2013 | Basque Research Newsletter (Published in Spanish & English) | Scientific | 10.000 | Spain (worldwide) |
| 11. | Articles published in Cordis | CEIT | A new dimension in mobile telecommunications | January 2013 | Published in Cordis | Scientific | | EU-27 |
| 12. | Articles published in the popular press | CEIT | Una nueva dimesión de las telecomunicaciones en el móvil | January 2013 | Dyna Magazine, Industrial Engineering (Published in Spanish) | Scientific | | Spain |
| 13. | Factsheet | CEIT | Energy Efficient E- band Transceiver for the Backhaul of Future Networks | February 2013 | Web-page/ conferences where CEIT has assisted | Scientific | - | Whole world (particulary Europe) |

| No | Type of activities | Main leader | Title | Date | Place | Type of audience | Size of audience | Countries addressed |
|-----|---|----------------|---|------------------|--|----------------------------------|------------------|---------------------|
| 14. | Press Release | OTE | OTE Participates to the E3Network research project. | February 2014 | https://www. ote.gr/docu ments/1028 0/43608705/ 100214_E3N etwork _en.doc/b58 dc9c3-abed- 4cee-81da- cf296ee789f 9 (Published in Greek & English) | Scientific | - | World-wide |
| 15. | Announce- ment in electronic media | OTE | OTE Participates to the E3Network research project. | February 2014 | MobileNews (published in Greek) | General public, Scientific | 1 | Greece |
| 16. | Announce- ment in electronic media | OTE | OTE Participates to the E3Network research project. | February 2014 | Sofokleous 10 (published in Greek) | General public, Scientific | - | Greece |
| 17. | Announce- ment in electronic media | OTE | OTE Participates to the E3Network research project. | February 2014 | EURO2DAY (published in Greek) | General public, Scientific | - | Greece |
| 18. | Announce- ment in electronic media | OTE | OTE Participates to the E3Network research project. | February 2014 | Sportandbusi ness.gr (published in Greek) | General public, Scientific | - | Greece |
| 19. | Announce- ment in electronic media | OTE | OTE Participates to the E3Network research project. | February 2014 | Capital.gr (published in Greek) | General public, Scientific | - | Greece |
| 20. | Announce- ment in electronic media | OTE | OTE Participates to the E3Network research project. | February 2014 | FMVOICE.G R (published in Greek) | General public, Scientific | - | Greece |

| No | Type of activities | Main leader | Title | Date | Place | Type of audience | Size of audience | Countries addressed |
|-----|---|----------------|---|------------------|--|----------------------------------|------------------|---------------------|
| 21. | Announce- ment in electronic media | OTE | OTE Participates to the E3Network research project. | February 2014 | moneypost.g r (published in Greek) | General public, Scientific | - | Greece |
| 22. | Announce- ment in electronic media | OTE | OTE Participates to the E3Network research project. | February 2014 | NewsApsou. gr (published in Greek) | General public, Scientific | 1 | Greece |
| 23. | Announce- ment in electronic media | OTE | OTE Participates to the E3Network research project. | February 2014 | HNAYTEMП OPIKH (published in Greek) | General public, Scientific | - | Greece |
| 24. | Announce- ment in electronic media | OTE | OTE Participates to the E3Network research project. | February 2014 | Banking News gr(published in Greek) | General public, Scientific | - | Greece |
| 25. | Announce- ment in electronic media | OTE | OTE Participates to the E3Network research project. | February 2014 | Capital.gr (published in Greek) | General public, Scientific | - | Greece |
| 26. | Announce- ment in electronic media | ОТЕ | OTE Participates to the E3Network research project. | February 2014 | dealnews.gr (published in Greek) | General public, Scientific | - | Greece |
| 27. | Announce- ment in electronic media | ОТЕ | OTE Participates to the E3Network research project. | February 2014 | weather.gr (published in Greek) | General public, Scientific | - | Greece |
| 28. | Announce- ment in electronic media | ОТЕ | OTE Participates to the E3Network research project. | February 2014 | Acrobase (published in Greek) | General public, Scientific | - | Greece |
| 29. | Announce- ment in electronic media | OTE | OTE Participates to the E3Network research project. | February 2014 | Radar.gr (published in Greek) | General public, Scientific | - | Greece |

| No | Type of activities | Main leader | Title | Date | Place | Type of audience | Size of audience | Countries addressed |
|-----|---|----------------|---|------------------|--|----------------------------------|------------------|---------------------|
| 30. | Announce- ment in electronic media | OTE | OTE Participates to the E3Network research project. | February 2014 | techpress.gr (published in Greek) | General public, Scientific | - | Greece |
| 31. | Announce- ment in electronic media | OTE | OTE Participates to the E3Network research project. | February 2014 | Newsbeast.g r (published in Greek) | General public, Scientific | - | Greece |
| 32. | Announce- ment in electronic media | OTE | OTE Participates to the E3Network research project. | February 2014 | grafida.net (published in Greek) | General public, Scientific | - | Greece |
| 33. | Announce- ment in electronic media | ОТЕ | OTE Participates to the E3Network research project. | February 2014 | Palo (published in Greek) | General public, Scientific | 1 | Greece |
| 34. | Announce- ment in electronic media | ОТЕ | OTE Participates to the E3Network research project. | February 2014 | HΆποψη (published in Greek) | General public, Scientific | - | Greece |
| 35. | Announce- ment in electronic media | ОТЕ | OTE Participates to the E3Network research project. | February 2014 | fmvoice.eu (published in Greek) | General public, Scientific | 1 | Greece |
| 36. | Announce- ment in electronic media | ОТЕ | OTE Participates to the E3Network research project. | February 2014 | Matrix24 (published in Greek) | General public, Scientific | - | Greece |
| 37. | Announce- ment in electronic media | OTE | OTE Participates to the E3Network research project. | February 2014 | Rss feeds Tou mykosmos.gr (published in Greek) | General public, Scientific | - | Greece |
| 38. | Announce- ment in electronic media | OTE | OTE Participates to the E3Network research project. | February 2014 | telecomsnew s.gr (published in Greek) | General public, Scientific | - | Greece |

| No | Type of activities | Main leader | Title | Date | Place | Type of audience | Size of audience | Countries addressed |
|-----|---|----------------|---|------------------|--|----------------------------------|------------------|---------------------|
| 39. | Announce- ment in electronic media | ОТЕ | OTE Participates to the E3Network research project. | February 2014 | Fortunegreec e.com (published in Greek) | General public, Scientific | 1 | Greece |
| 40. | Announce- ment in electronic media | OTE | OTE Participates to the E3Network research project. | February 2014 | Digital TV Info (published in Greek) | General public, Scientific | - | Greece |
| 41. | Announce- ment in electronic media | OTE | OTE Participates to the E3Network research project. | February 2014 | evrytanika.gr (published in Greek) | General public, Scientific | - | Greece |
| 42. | Announce- ment in electronic media | ОТЕ | OTE Participates to the E3Network research project. | February 2014 | ipaideia.gr (published in Greek) | General public, Scientific | - | Greece |
| 43. | Announce- ment in electronic media | OTE | OTE Participates to the E3Network research project. | February 2014 | Greekinform atics.gr (published in Greek) | General public, Scientific | - | Greece |
| 44. | Announce- ment in electronic media | OTE | OTE Participates to the E3Network research project. | February 2014 | ADSLgr Online Community (published in Greek) | General public, Scientific | - | Greece |
| 45. | Announce- ment in electronic media | OTE | OTE Participates to the E3Network research project. | February 2014 | ToXrima.gr (published in Greek) | General public, Scientific | - | Greece |
| 46. | Announce- ment in electronic media | OTE | OTE Participates to the E3Network research project. | February 2014 | EMEA Business Monitor (published in Greek) | General public, Scientific | - | Greece |
| 47. | Announce- ment in electronic media | ОТЕ | OTE Participates to the E3Network research project. | February 2014 | ICTplus (published in Greek) | General public, Scientific | - | Greece |

| No | Type of activities | Main leader | Title | Date | Place | Type of audience | Size of audience | Countries addressed |
|-----|---|----------------|---|------------------|---|----------------------------------|------------------|---------------------|
| 48. | Announce- ment in electronic media | OTE | OTE Participates to the E3Network research project. | February 2014 | InsuranceDai ly (published in Greek) | General public, Scientific | 1 | Greece |
| 49. | Announce- ment in electronic media | OTE | OTE Participates to the E3Network research project. | February 2014 | i-TECH4U (published in Greek) | General public, Scientific | 1 | Greece |
| 50. | Announce- ment in electronic media | OTE | OTE Participates to the E3Network research project. | February 2014 | newpost.gr (published in Greek) | General public, Scientific | 1 | Greece |
| 51. | Announce- ment in electronic media | OTE | OTE Participates to the E3Network research project. | February 2014 | Ειδήσεις με μια ματιά, Νέα από την Ελλάδα και τον κόσμο (publishedin Greek) | General public, Scientific | 1 | Greece |
| 52. | Announce- ment in electronic media | OTE | OTE Participates to the E3Network research project. | February 2014 | myPhoneFor um (published in Greek) | General public, Scientific | - | Greece |
| 53. | Announce- ment in electronic media | OTE | OTE Participates to the E3Network research project. | February 2014 | biztech.gr (published in Greek) | General public, Scientific | - | Greece |
| 54. | Announce- ment in electronic media | OTE | OTE Participates to the E3Network research project. | February 2014 | telecompape r.com (published in English) | General public, Scientific | - | World-wide |
| 55. | Announce- ment in electronic media | ST | Advanced Semiconductor Technology from STMicroelectronics Underlies Tomorrow's Mobile Network Infrastructures | July 2015 | globenewsw ire.com (published in English) | General public Scientific | - | World-wide |

| No | Type of activities | Main leader | Title | Date | Place | Type of audience | Size of audience | Countries addressed |
|-----|---|----------------|---|-------------------|---|---------------------------------|------------------|---------------------|
| 56. | Announce- ment in electronic media | ST | Une nouvelle technologie microélectronique de pointe développée par STMicroelectronics supporte les infrastructures des réseaux mobiles de demain | July 2015 | www.st.com (published in French) | General public Scientific | - | World-wide |
| 57. | Announce- ment in electronic media | ST | 意法半导体(ST)的先进半导体技术为未来移动网络基础设施奠定重要基础 | July 2015 | www.st.com (Japaness version) | General public Scientific | - | World-wide |
| 58. | Announce- ment in electronic media | ST | Semiconductor technology has laid an important foundation for the future mobile | August 2012 | www.raypcb .com (published in English) | General public Scientific | - | World-wide |
| 59. | Announce- ment in electronic media | ST | The European Project E3Network 意法半导体为未来行动 网络基础设施奠定根基 | September 2015 | gb- www.digitim es.com.tw (published in Japanish) | General public Scientific | - | World-wide |

2.1.3. Promoting the technical achievements of E3Network in conferences

As explained in the dissemination plan (D6.2), one of the most important dissemination parts is the scientific dissemination. This is achieved through scientific and technical presentations to international conferences and workshops. During these events, E3Network partners have presented the ongoing research on ICT that will be integrated with the E3Network transceiver. Table 3 presents a summary of the conferences and workshops where the work done in E3Network has been presented. The dissemination effort done within the third period is highlighted in bold in the table. A copy of the articles presented in these conferences during the first and second period can be found in the Annex A.1 and Annex A.2, respectively. Annex A.3 compiles the articles presented in conferences during the third period.

Table 3. Conference papers published within E3Network

| No. | Type of activities | Main leader | Title | Date | Place | Type of audience | Size of audience | Countries addressed |
|-----|----------------------------|----------------|---|----------------------------|------------------------|--|------------------|------------------------|
| 1. | Conference poster | CEIT | Future Network and Mobile Summit 2013 "On the Design of an E-band Link for the Backhaul of Future Networks" | 3-5 July 2013 | Lisbon, Portugal | Scientific, end-users | ~100 | EU-27 |
| 2. | Conference presentation | OTE | 1st Workshop on Innovative European Policies and Applied Measures for Developing Smart Cities (IPMSC 2013) in the scope of the 14th EANN (Engineering Applications of Neural Networks) International Conference (EANN-2013) "Energy Efficient Eband Transceiver for Future Networking" | 13-16 September 2013 | Chalkidiki, Greece | Scientific, end-users, General Public | ~40-50 | World- Wide |
| 3. | Conference presentation | OTE | 5th Pan-Hellenic Conference on Protypation, Standards and Quality, which was organized by (ENEPROT). "Energy Efficient Eband transceiver". | 21-22 February 2014. | Thessaloniki Greece | Scientific, Business | ~100 | Greece |
| 4. | Conference presentation | CEIT | European Wireless 2014. "Impact of AC Coupling on Zero-IF Architectures for Wide-Band Milimeter-Wave Gigabit Transmitters". | 14-16 May 2014 | Barcelona Spain | Scientific | ~200 | World- Wide |

| No. | Type of activities | Main leader | Title | Date | Place | Type of audience | Size of audience | Countries addressed |
|-----|----------------------------|----------------|---|-------------------------------|----------------------|------------------|------------------|------------------------|
| ٦. | Conference presentation | CEIT, FHG | International Conference on Wireless and Mobile Communications (ICWMC 2014). "Non-frequency- selective IQ Imbalance in Zero- IF Transceivers for Wide-Band mmW Links". Best Paper Award | 22-26 June, 2014 | Seville Spain | Scientific | ~300 | World- Wide |
| 6. | Conference Presentation | CEIT | PRIME 2014: 10th Conference on Ph.D. Research in Microelectronics and Electronics. "66-87 GHz Power Amplifier with 20dBm 1-dB compression point and 35% peak PAE in a 55nm SiGe technology". | 30 June – 3 July, 2014. | Grenoble (France) | Scientific | ~150 | World- Wide |
| 7. | Conference Presentation | CEIT | Conference on Design of Circuits and Integrated Systems, "Parallel Implementation of a Sample Rate Conversion and Pulse-Shaping Filter for High Speed Backhauling Networks". | 26-28 Nov, 2014. | Madrid (Spain) | Scientific | ~300 | World- Wide |

| No. | Type of activities | Main leader | Title | Date | Place | Type of audience | Size of audience | Countries addressed |
|-----|----------------------------|----------------|--|-----------------------|----------------------------------|------------------|------------------|------------------------|
| 8. | Conference Presentation | CEIT | Global Symposium on Millimeter-waves 2015. "68-73 GHz Common-Base HBT Amplifier in 55 nm SiGe Technology" | 25-27 May 2015 | Montreal, Quebec (Canada) | Scientific | >250 | World- Wide |
| 9. | Conference Presentation | CEA | XIXèmes Journées Nationales Microondes. "Synthèse de fréquence millimétrique très faible bruit de phase basée sur une multiplication de fréquence par 30 en BiCMOS 55nm" | 3-4-5 June 2015 | Bordeaux (France) | Scientific | 600 | France |
| 10. | Conference Presentation | CEIT | 19th International Conference on Circuits, Systems, Communications and Computers, (CSCC 2015). "Frequency- selective IQ Imbalance Compensation in Zero-Second-IF Transmitters for Wide-Band mmW Links" | 16-20 July 2015 | Zakynthos Island, (Greece) | Scientific | >250 | World- Wide |

| No. | Type of activities | Main leader | Title | Date | Place | Type of audience | Size of audience | Countries addressed |
|-----|----------------------------|----------------|---|-----------------------|---------------------------------|------------------|------------------|------------------------|
| 11. | Conference Presentation | CEA | ESSCIRC 2015 41th European Solid-State Circuits Conference. "A 45GHz/55GHz LO frequency selector for E- band transceivers based on switchable injection locked- oscillators in BiCMOS 55nm" | 14-18 Sept 2015 | Graz (Austria) | Scientific | 600 | World- Wide |
| 12. | Conference Presentation | CEIT | IEEE International Conference on Ubiquitous Wireless Broadband - ICUWB "A Wideband Millimeter-Wave Up-Conversion Mixer for Future Backhaul E-Band Point-To-Point Links with a 0dBm 1-dB Compression Point" | 4-7 Oct 2015 | Montreal- Quebec (Canada) | Scientific | >250 | World- Wide |

| No. | Type of activities | Main leader | Title | Date | Place | Type of audience | Size of audience | Countries addressed |
|-----|----------------------------|----------------|--|----------------------|-----------------------|------------------|------------------|---------------------|
| 13. | Conference Presentation | CEIT | XXX Conference on Design of Circuits and Integrated Systems. "Frequency-selective IQ Imbalance Compensation in Zero-Second-IF Transmitters for Wide-Band mmW Links" | 25-27 Nov 2015 | Estoril (Portugal) | Scientific | >250 | World- Wide |

2.2 Communication and dissemination for understanding E3Network

2.2.1. Dissemination for understanding of E3Network

Table 4 provides a summary of the dissemination effort done within Exhibitions and Conferences in order to promote the understanding of E3Network by one of our main target groups: the technical and scientific community. During the third period, the following activities were carried out:

- CEIT went to the "Avnet MEMEC Techday- Internet Of Thing for Smart Cities" to present E3Network to the people that attended this exhibition.
- Mario Frecassetti from ALU-I presented the trends in Microwave Backhaul evolution in a plenary session of the Conference on Design of Circuits and Integrated Systems 2013, which was held in San Sebastian (Spain) the 28th November 2013.
- Laurent Dussopt (from CEA-LETI, representing MiWaveS) and Igone Velez (from CEIT, representing E3Network) gave an speech about "Millimetre wave small-cell access and backhauling for 5G" in the Future Internet Assembly 2014, which was held in Athens (Greece).
- Laurent Dussopt (CEA-LETI) spoke about "Advanced mmW technologies" during the EU-Taiwan Workshop on 5G Research, where he explained part of the work done within E3Network and MiWaves.
- IXYS San Sebastian attended the Electronica 2014 in Munich, Germany. This is
 one of the most important electronics exhibitions in the world. During this
 exhibition, IXYS San Sebastian has taken the opportunity to show the work in
 progress to potential customers who might be interested in high speed
 converters, and in particular in the use of FMC expansion boards to be directly

- used with FPGA boards. A short overview of E3Network project was given as well, to see if those companies might find an interest in some other building blocks or algorithms being developed.
- M. Leyh (FHG) talked about "Millimeter-Wave Gigabit Wireless Backhaul" in the RAN World in Dusseldorf (20- 21 January 2015). RAN World was sponsored by the main operators in Europe and aimed to share real knowledge about how operators are tackling the challenges of today and preparing for the future. This conference has been a good opportunity for E3Network to disseminate its results and to interact with the main stakeholders in the field.
- OTE has participated in a Meeting organized by the Hellenic Branch of FITCE (Federation of Telecommunications Engineers of the European Community) in cooperation with the Pan-Hellenic Union of Mechanical and Electrical Engineers, the Union of Greek Physicists and the Technical Chamber of Greece. The Meeting took place on May 11th 2015 and was focused on 'the Contribution of ICT to the Environment, Energy Saving, Industry and Public Administration". The concept and expected impact of E3Network was presented in the Meeting and discussed through an interactive approach between representatives of the academic community but also executives from the market sector.
- Igone Velez (CEIT) together with Laurent Dussopt (CEA) have given a joint presentation of E3Network and MiWaves in the European Conference on Networks and Communications 2015, which was held in Paris in June.
- During the Workshop on Millimetre waves organized by ITU-R Working Party 5C in Bucharest (6-15 July 2015), Mario Frecassetti (ALU) has given a presentation on "Eband and V-band survey on status of worldwide regulation". E3Network was presented as an example of the interest of equipment manufacturer in using this band for multigigabit interconnections.
- The scope of the E3Network project has been presented by FHG throughout the 5G Lab Germany – Academic Interaction Day workshop, Dresden, 25 September 2015.
- CEIT has presented a demonstrator of E3Network in Lisbon ICT2015 (20-22 October 2015). This event was a good opportunity to disseminate the project ideas to professionals from the industry, academia and research and promote interaction with users and stakeholders.
- CEIT has participated in the "Millimetre-wave Technology for High-speed Broadband Wireless Networks" workshop in Valencia (Spain). Igone Velez presented the results achieved in E3Network. This event was a good opportunity to interact with other consortia working on millimeter Wave technologies and with potential users of the E3Network system.

Table 4. Presentations and Exhibitions of E3Network for understanding E3Network

| No | Type of activities | Main leader | Title | Date | Place | Type of audience | Size of | Countrie s addresse d |
|----|--------------------|----------------|-------|------|-------|------------------|---------|--------------------------------|
|----|--------------------|----------------|-------|------|-------|------------------|---------|--------------------------------|

| No | Type of activities | Main leader | Title | Date | Place | Type of audience | Size of audience | Countrie s addresse d |
|----|----------------------------------|----------------------|---|--------------------|-----------------------------|--------------------------|------------------|--------------------------------|
| 1. | Conference / Exhibition | FHG, CEIT | European Microwave Week which is the largest RF/Microwave event in Europe. | 9 Oct. 2013 | Nuremberg, Germany | Scientific | EU wide | EU-27 |
| 2. | Conference / Exhibition | SiR | European Microwave Week which is the largest RF/Microwave event in Europe. | 8-10 Oct. 2013 | Nuremberg, Germany | Scientific | EU wide | EU-27 |
| 3. | Exhibition | CEIT | Avnet MEMEC Techday- Internet Of Thing for Smart Cities | 26 Nov. 2013 | Barcelona (Spain) | Scientific | ~50 | EU-27 |
| 4. | Conference plenary session | ALU-I | Conference on Design of Circuits and Integrated Systems 2013 "Trends in Microwave Backhaul evolution" | 28-11- 2013 | San Sebastian (Spain) | Scientific | ~200 | World- wide |
| 5. | Conference presentation | CEIT CEA- LETI | Join presentation of E3Network and MiWaveS in the Future Internet Assembly 2014 | 18-22 Mar. 2014 | Athens (Greece) | Scientific | ~50 | EU-27 |
| 6. | Workshop presentation | CEA | EU-Taiwan Workshop on 5G Research "Advanced mmW technologies" | 24 Oct, 2014 | Brussels (Belgium) | Scientific, end-users | ~15 | EU-27, Taiwan |
| 7. | Exhibition | IXYS | Electronica 2014 | 11-14 Nov. 2014 | Munich (Germany) | Scientific, end-users | >70,000 | World- wide |
| 8. | Conference Presentation | FHG | RAN World Conference | 20-21 Jan. 2015 | Dusseldorf (Germany) | Scientific, end-users | ~30 | World- wide |

| No | Type of activities | Main leader | Title | Date | Place | Type of audience | Size of audience | Countrie s addresse d |
|-----|----------------------------|----------------|---|------------------------------|------------------------|--------------------------|------------------|--------------------------------|
| 9. | Workshop Presentation | ОТЕ | Hellenic Branch of FITCE Meeting about the Contribution of ICT to the Environment, Energy Saving, Industry and Public Administration | 11 th May 2015 | Athens (Greece) | Scientific, end-users | ~100 | Greece |
| 10. | Conference Presentation | CEIT | European Conference on Networks and Communications | 27-30 June 2015 | Paris (France) | Scientific, end-users | ~30 | EU-27 |
| 11. | Workshop Presentation | ALU | ITU-R workshop on mmWaves | 6 July 2015 | Bucharest (Romania) | Scientific | >250 | World- Wide |
| 12. | Workshop Presentation | FHG | 5G Lab Germany – Academic Interaction Day workshop | 25 Sep. 2015 | Dresden (Germany) | Scientific | ~100 | World- Wide |
| 13. | Exhibition | CEIT | ICT 2015 Exhibition | 20-22 October 2015 | Brussels | Scientific, end-users | ~6000 | EU-27 |
| 14. | Workshop presentation | CEIT | Millimetre-wave Technology for High-speed Broadband Wireless Networks. | 20 Nov 2015 | Valencia (Spain) | Scientific, end-users | ~30 | EU-27 |

Table 5 presents the workshops that have been organized by the partners of the consortium:

Table 5. Workshops organized for understanding E3Network

| No. | Type of activities | Main leader | Title | Date | Place | Type of audience | Size of audience | Countries addressed |
|-----|--------------------|----------------|---|------------------------|---|--|--|--|
| 1. | Workshop | CEA- LETI | Layout design techniques and physical verification flow (DRC, LVS and Extraction for postlayout simulation) using the BiCMOS55 process and PDK | June 2013 | Grenoble (France) | Scientific | <10 | ALL countries in the consortium |
| 2. | Workshop | OTE | 1 st Workshop on Innovative European Policies and Applied Measures for Developing Smart Cities (IPMSC 2013) in the scope of the 14 th EANN (Engineering Applications of Neural Networks) International Conference (EANN-2013) | 13-16 Sept. 2013 | Chalkidiki Greece | Scientific, end-users, general public | Medium (~40-50 participa nts in the session) | World-Wide |
| 3. | Workshop | ALU-I | Workshop on ALU WT portfolio and future evolution | From April 2013 | Vimercate and customers premises | End-Users | ALU-WW Custome | World-Wide |
| 4. | Workshop | Sivers IMA | Characterization of the developed mm-wave TX & RX front ends together with the digital modulator and DAC | 13-15 Jan 2016 | Kista (Sweden) | Scientific | 4 | Sweden, Spain |

| No. | Type of activities | Main leader | Title | Date | Place | Type of audience | Size of audience | Countries addressed |
|-----|--------------------|----------------|--|--|----------------------------|--------------------------|------------------|--|
| 5. | Workshop | Sivers IMA | Integration of the developed mm-wave TX/RX front ends, digital modulation and demodulation, analogue-digital converters as well as their interconnection with the network equipment. | 16-19 Febr, 2016 | Kista (Sweden) | Scientific | 7 | Sweden, Italy, Spain, Germany |
| 6. | Workshop | CEIT | Integration of the digital baseband TX/RX, analogue-digital converters and the developed mm-wave front ends. | 12-13 April 2016 | San Sebastian, Spain | Scientific | 6 | Spain, Germany |
| 7. | Workshop | ОТЕ | Demo of the E3Network prototype | 21 st - 22 nd June 2016 | Athens, Greece | Scientific, end-users | ~10 | Spain, Germany, Italy, Greece |

2.2.2. Interaction with standardization bodies

The information about the interaction of the project with the relevant Standarization bodies is described in deliverable D6.4.3. As we can see in this deliverable, Mario Frecassetti (ALU) has disseminated the objectives and results of E3Network in the ETSI ISG millimetre wave transmission group meeting, ETSI TM4 meeting and WGSE19 meeting. A lot of stockholders present during these meetings are now aware of E3Network idea and preliminary results. Moreover, ALU has released a ETSI whitepaper where E3Network is quoted. This document is available on ETSI website. A copy of this whitepaper has been included in Annex A.3.

Finally, a contribution to a white paper on mm-wave semiconductor industry technology status and evolution and describing the main preliminary results from E3NETWORK is being prepared by ST. This white paper will be published by ETSI mWT ISG.

Table 6. White papers written in ETSI

| No. | Type of activities | Main leader in E3Network | Title | Date | Place | Type of audience | Size of audience | Countries addressed |
|-----|--------------------|-----------------------------|--|--|-------|-------------------------|------------------|---------------------|
| 1. | White paper | ALU | "E-Band and V-Band - Survey on status of worldwide regulation" | Jun. 2015 | ETSI | Scientific, end-user | >1000 | EU-27 |
| 2. | White paper | ST | "mm-wave semiconductor industry technology status and evolution" | Jan 2016 (Draft released for approval) | ETSI | Scientific, end-user | >1000 | EU-27 |

2.2.3. Interaction with other EU projects

A good way to improve the project development is gathering information of other projects related to Future Network. Therefore, the E3Network Consortium has actively participated in the activities organised at programme level relating to the ICT Future Networks area. The consortium participates in the RAS cluster meetings and the Future Networks Concertation Meetings (now called Net-Tech Future Coordination Meetings). In the following table, we provide a summary of the meetings to which E3Network has assisted.

Table 7. Clustering meetings

| No. | Type of activities | Main leader | Title | Date | Place | Type of audience | Size of audience | Countries addressed |
|-----|-----------------------|----------------|--|-------------------------------------|-----------------------|------------------|------------------|---------------------|
| 3. | Clustering meeting | CEIT | RAS Cluster Meeting | 10 th October 2012 | Brussels (Belgium) | Scientific | >20 | EU-27 |
| 4. | Clustering meeting | CEIT | Future Networks 10th FP7 Concertation Meeting | 11 th October 2012 | Brussels (Belgium) | Scientific | >20 | EU-27 |
| 5. | Clustering meeting | CEIT | RAS Cluster Meeting | 27 February 2013 | Brussels (Belgium) | Scientific | >20 | EU-27 |
| 6. | Clustering meeting | CEIT | Future Networks 11th FP7 Concertation Meeting | 28 February 2013 | Brussels (Belgium) | Scientific | >20 | EU-27 |

| No. | Type of activities | Main leader | Title | Date | Place | Type of audience | Size of audience | Countries addressed |
|-----|-----------------------|----------------|--|-------------------------------|-----------------------|------------------|------------------|---------------------|
| 7. | Clustering meeting | CEIT | RAS Cluster Meeting | 22 October 2013 | Brussels (Belgium) | Scientific | >20 | EU-27 |
| 8. | Clustering meeting | CEIT | Future Networks 12th FP7 Concertation Meeting | 23 October 2013 | Brussels (Belgium) | Scientific | >20 | EU-27 |
| 9. | Clustering meeting | CEIT | Future Internet Assembly 2014 | 18-20 March 2014 | Athens (Greece) | Scientific | >200 | EU-27 |
| 10 | Clustering meeting | CEIT | Net-Tech Future Coordination Meetings | 23-24 October 2014 | Brussels (Belgium) | Scientific | >20 | EU-27 |
| 11 | Clustering meeting | CEIT | Net Future 2015 Conference | 25-26 March | Brussels (Belgium) | Scientifi c | >20 | EU-27 |
| 12 | Clustering Meeting | CEIT | FP7 & H2020 Network Technologies Concertation Day | 1 st March 2016 | Brussels (Belgium) | Scientifi c | >20 | EU-27 |

As part of the RAS cluster, the consortium participated in the preparation of the white paper on the European view of High capacity PHY for future radio access-5G. This white paper will present the main challenges in the design of the E-band backhaul link to be used in the future radio access.

Table 8. White papers written in collaboration with other EU Projects

| No. | Type of activities | Main leader in E3Network | Title | Date | Place | Type of audience | Size of audience | Countries addressed |
|-----|--------------------|-----------------------------|--|--------------|----------|------------------|------------------|---------------------|
| 13 | White paper | CEIT | White Paper on the European view on High capacity PHY for future radio access and 5G | Aug. 2013 | Internet | Scientific | >100 | EU-27 |

Finally, the results of the E3Network project are related with the goals of the MiWaveS FP7 project. In this project, mmW radio links are proposed for small cell networks. 60 GHz band is proposed for the access link between the users and the small cell access point, whereas both (or either) 60 GHz and E band are proposed for the back-haul link between the access points of the small cell. The distances that are considered in MiWaves project for those links are smaller than those addressed in E3Network, but the developments of both project may share some common activities. Three partners of E3Networks project, CEA, ST-I and Sivers-IMA are participating in the MiWaves project. CEA-Leti coordinates the MiWaveS project and participates in the 60 GHz access links radio design and antennas design activities in MiWaveS. ST-I as well as Sivers IMA participates in the back-haul link in MiWaves project.

Additionally, there is some relationship between the MiWEBA project and E3Network. CEA is participating in both project and has been the link between both project. The MiWEBA project addresses the network and protocol issues of integrating mmW radios and links on cellular networks. Its relation with E3Network project is less strong, but it may provide interesting feed-back concerning the requirements of data traffic and protocol requirements from the higher layers of the link to the lower layers considered in E3Network project.

As an example of the collaboration among MiWaveS and E3Network during this period, it can be pointed out that, as explained before, the project coordinators of both projects gave a joint speech about "Millimetre wave small-cell access and backhauling for 5G" in the European Conference on Networks and Communications 2015, which was held in Paris in June 2015. During the Workshop on Millimeter waves organized by ITU-R Working Party 5C in Bucharest (6-15 July 2015), Mario Frecassetti (ALU) gave a presentation on "Eband and V-band - survey on status of worldwide regulation". In this presentation, he talked about E3Network and other two FP7 projects (MiWaves and IPHOBAC).

Finally, CEIT has presented the results achieved in E3Network in the "millimetre-wave Technology for High-speed Broadband Wireless Networks" workshop in Valencia, where the most significant European projects working in the millimetre wave technologies were represented. This event was a good opportunity to interact with other consortia working on millimeter Wave technologies and with potential users of the E3Network system.

2.2.4. Final year projects, Master Thesis and PhD Thesis

The consortium has carried out final year projects, master thesis and PhD Thesis related to research and development tasks of E3Network. Table 9 provides some information about the final year projects and PhD Thesis that have been carried out or are being carried out within the project.

| No | Type of activities | Main leader | Title | Date | Place | Type of audience | Size of audience | Countries addressed |
|----|-----------------------|----------------|---|------------|----------------------------|------------------|------------------|---------------------|
| 1. | Final Year Project | CEIT | Design of tunable inductors for self-healing actuation systems integrated in mm-wave power amplifiers | 11/07/2013 | San Sebastian, Spain | Scientific | 20 | Spain |

Table 9. Final Year Projects, Master Thesis and PhD Thesis

| No | Type of activities | Main leader | Title | Date | Place | Type of audience | Size of audience | Countries addressed |
|----|-----------------------|---|--|--------------------------|--------------------------------|------------------|------------------|---------------------|
| 2. | Final Year Project | CEIT | Design of a High Performance modem for Future Mobile Communication Systems | 19/07/2013 | San Sebastian, Spain | Scientific | 20 | Spain |
| 3. | Ph.D. Thesis | CEA- Leti | Conception et etude d'une synthèse de fréquence innovante en technologies CMOS avancées pour les applications en bande de fréquence millimétrique | 16/09/2014 | Phelma, Grenoble, France | Scientific | 40 | France, Italy |
| 4. | Final Year Project | CEIT | Development of a control application for a Future Mobile Communication System | 09/2015 | San Sebastian, Spain | Scientific | 20 | Spain |
| 5. | Ph.D. Thesis | CEIT | Design and implementation of a transmitter for millimetre wave applications in a low-cost technology | Expected date: Sep. 2017 | San Sebastian, Spain | Scientific | 20 | Spain |
| 6. | Ph.D. Thesis | Design and implementation of digital signal processing based calibration of | | Expected date: Sep. 2017 | San Sebastian, Spain | Scientific | 20 | Spain |

2.2.5. Articles in journals and magazines

Table 10 shows the article in scientific journals published and submitted by the consortium during the project. A copy of these articles can be found in the Annex A.3. Additionally, the consortium has other 2 manuscripts under preparation to be submitted to scientific journals.

Table 10. Articles in journals and magazines within E3Network (both published and submitted)

| No. | Title | | Title of the periodical | Number, | Publisher | Place of | Year of | Relevant | Permanent identifiers (if available) | Is/will open access provided to |
|-----|--|--------|---|---------------------|---------------------------------------|-------------|-------------|----------|--------------------------------------|---------------------------------|
| | | author | or the series | frequency | | publication | publication | pages | | this publications? |
| 1. | Layout-Aware Design Methodology for a 75 GHz Power Amplifier in a 55nm SiGe Technology | CEIT | Integration, the VLSI Journal | Volume 52 | Elsevier | Word-wide | 2016 | 208-216 | doi:10.1016/j.vlsi.2015.07.010 | NO |
| 2. | IQ Imbalance in Heterodyne Transceivers with zero- second-IF for Wide-Band mmW Links | CEIT | "International Journal on Advances in Telecommunications" | vol 8, no 1&2 | IARIA Journals | Word-wide | 2015 | 25-34 | ISSN: 1942-2601 | YES |
| 3. | Frequency- Selective IQ Imbalance in Zero-Second- IF Transceivers for Wide-Band mmW Links | CEIT | International Journal of Communications, Volume 5, 2015, Pages: 98-104 | Vol 9 | North Atlantic University Union | Word-wide | 2015 | 98-104 | ISSN: 1998-4480 | YES |

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| No | | Main author | Title of the periodical or the series | Number, date or frequency | Publisher | Place of publication | Year of publication | Relevant pages | Permanent identifiers (if available) | Is/will open access provided to this publications? |
|----|--|----------------|--|---------------------------------|-----------|----------------------|---------------------|----------------|---|--|
| 4. | "A Wideband and High-Linearity E-Band Transmitter Integrated in a 55 nm SiGe Technology for Backhaul Point-to-Point 10 Gbps Links" | CEIT | IEEE Transactions on Microwave Theory and Techniques | | IEEE | Word-wide | Submitted in 2016 | | | |
| 5. | "A 15-21 GHz I/Q Upconverter with an On-Chip Linearization Circuit for 10 Gbps mmW Links" | CEIT | IEEE Microwave and Wireless Components Letters | | IEEE | Word-wide | Submitted in 2016 | | | |

2.2.6. Books and book chapters

Table 11 shows the book chapter that the consortium has published during the project. A copy of this chapter can be found in the Annex A.1.

Table 11. Book Chapter published within E3Network

| No. | Title | Main author | Title of the periodical or the series | Number, date or frequency | Publisher | Place of publication | Year of publication | Relevant pages | Permanent identifiers (if available) | Is/will open access provided to this publications? |
|-----|--|----------------|--|---------------------------------|-------------------------------|----------------------|---------------------|-------------------|--------------------------------------|--|
| 1. | Energy Efficient E-band Transceiver for Future Networking. | OTE, ALU | Communications in Computer and Information Science Engineering Applications of Neural Networks | Volume 384 | Springer Berlin Heidelberg | Word-wide | 2013 | 292-301 | DOI:10.1007/978-3- 642-41016-1_31 | No |

3. CONCLUSIONS

During the third period, the dissemination activities of the E3Network project have been mainly focused on promoting the technical achievements of E3Network to the scientific community. The results of E3Network have been or will be presented in the following conferences: "Conference on Design of Circuits and Integrated Systems 2015 and 2016", "Global Symposium on Millimeter-waves 2015", "International Conference on Circuits, Systems, Communications and Computers, (CSCC 2015)", "ESSCIRC 2015 41th European Solid-State Circuits Conference" or "IEEE International Conference on Ubiquitous Wireless Broadband – ICUWB 2015".

Some results have also been published in scientific journals such as "Integration, the VLSI journal", "International Journal on Advances in Telecommunications" or "International Journal of Communications". Additionally, 4 other manuscripts have been submitted or are under preparation to be submitted to scientific journals, such as "IEEE Transactions on Microwave Theory and Techniques" or "IEEE Microwave and Wireless Components Letters".

Moreover, the consortium has been present in different forums and exhibitions, such as the Electronica 2014, "RAN World 2015" and "ICT2015".

The E3Network Consortium is also actively participating in the RAS Cluster Future Networks Concertation Meetings. Within this cluster, the consortium has close links to other FP7 project with shared interests, i.e.: MiWaves and MiWEBA. As an example of the collaboration among MiWaveS and E3Network during this period, the project coordinators of both projects gave a joint speech about "Millimetre wave small-cell access and backhauling for 5G" in the "European Conference on Networks and Communications 2015", which was held in Paris (France). Moreover, ALU also spoke about "Eband and V-band - survey on status of worldwide regulation" Workshop on Millimeter waves organized by ITU-R Working Party 5C, where E3Network, MiWaveS and IPHOBAC was explained.

4. REFERENCES

[1] E3Network, Deliverable D6.2 "Dissemination Plan", 23rd May 2013.