Deliverable data	Work Package and Outcome ref.no.	WP6 D6.4		
	Title	Offered open events to reach the community at-large and disseminate the results at ICT conferences		
	Type	☐ Teaching material ☐ Event ☐ Learning material ☒ Report ☐ Training material ☐ Service / Product		
	Description	The project outcome will be presented at three project's annual open events (in Ljubljana, Sarajevo, and Novi Sad). A paper describing new methodologies and guidelines for studies in ICT Engineering will be prepared and presented at the conferences. Special sessions at the regional or international conferences are planned during the project duration. This documents lists the dissemination results in terms of organized events and their dissemination effect.		
	Date	12/02/2021		
	Language	English		
Target groups	☒ Teaching staff ☒ Students ☒ Trainees ☐ Administrative staff ☐ Technical staff ☐ Librarians ☒ Industry partners			
Dissemination level	☐ Department/ Faculty ☐ Local ☐ National ☐ Institution ☐ Regional ☒ International			
WP Leading Organization	FERIT			
Participating Organization	UNI-KLU, UL, UBL, UNSA, UNTZ, UB, UNI, UNS, ENT, BICOM, BIT, CISCO, NiCAT, RT-RK			

Revision History				
Version	Date	Author(s)	Organization(s)	Brief description of change
1	20/4/2020	I. Stupar	ENT	Super draft
2	11/5/2020	I.Stupar	ENT	Added missing event reports.
3	30/11/2020	I. Stupar	ENT	Added missing event reports.
4	10/12/2020	I. Stupar	ENT	Updated events list and attendance numbers
5	21/1/2021	Z. Krpić	FERIT	Review
6	21/1/2021	N. Maleš-Ilić	UNI	QB evaluation
7	3/2/2021	I. Stupar	ENT	Updated events list and attendance numbers
8	5/2/2021	M. Koprivica	UB	Updated chapter 3
9	10/2/2021		Sinonim d.o.o.	Proofreading
10	11/2/2021	S. Rimac-Drlje	FERIT	Editing

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1   Introduction

This deliverable "Offered open events to reach the community-at-large and disseminate the results at ICT conferences" reports the results of the activities carried out in:
T6.4. Organize an annual open event outreaching a wide audience that includes public authorities, industry, students, pupils and non-expert people (**Task leader: ENT**)

This document lists events used for promotion and dissemination of information related to the project and its achievements in the form of open events (Chapter 2), as well as special sessions at the regional or international conferences and web-based events (Chapter 3). Chapter 4 brings a summary of the achieved results related to the task T6.4 and concludes the document.

2   Annual open events

Three annual open events were planned to outreach a wide audience that includes public authorities, industry, students, pupils and non-expert people – an open event in Ljubljana (2018), Sarajevo (2019), and Novi Sad (2020). In addition to the three planned open events, an open event was organized in Tuzla in May 2018. Also, in 2018 and 2019 Ericsson Nikola Tesla has organized open events in Zagreb which served for the dissemination of information about the project. Table 1 summarizes information about the planned and organized open events. The column "Planned" indicates if the event was included in the planned scope of the project, or if it was realized as an additional activity outside of the planned scope. The column "Status" indicates if the event was realized.

Table 1. Organized and planned open events

Event	Organized by	Date	Planned	Status
Open event in Tuzla	University of Tuzla	17 May 2018	No	Organized
Open event in Ljubljana	University of Ljubljana	26 September 2018	Yes	Organized
Open event in Zagreb: ENT Summer Camp 2018	Ericsson Nikola Tesla	28 September 2018	No	Organized
Open event in Sarajevo	University of Sarajevo	12 June 2019	Yes	Organized
Open event in Zagreb: ENT Summer Camp 2019	Ericsson Nikola Tesla	4 October 2019	No	Organized
Open event in Novi Sad	University of Novi Sad	29 January 2021	Yes	Organized

Information about the open events as well as pictures are posted on the project website at https://www.project-benefit.eu/?page_id=19 .

2.1   Open event in Tuzla

The University of Tuzla organized an open event to present the BENEFIT project to the students and local community in Tuzla and Bosnia and Herzegovina. The event was organized at the Faculty of Electrical Engineering on 17 May 2018. Prof. dr. Nermin Suljanović and prof. dr. Aljo Mujčić presented the scope and aims of the BENEFIT project, while doc. dr. Asmir Gogić provided more details on the development of a joint lab with Bicom Systems. Vedrana Ajanović (BIT Center Tuzla) and Nerina Bolić

(Bicom Systems) talked about the internship opportunities for students of the Faculty of Electrical Engineering Tuzla, in the scope of the BENEFIT project. Another Erasmus+ project implemented at the University of Tuzla, ELEMEND, has also been introduced to the audience. This open event attracted 45 participants. Television of Tuzla Canton reported about this event.

2.2   Open event in Ljubljana

Open Day in Ljubljana was organized on 26 September 2018, it was held at Faculty of Electrical Engineering, University of Ljubljana. The aim of the Open Day was to present the activities of the BENEFIT project to professors, experts, professionals and students from Slovenia. There were 20 participants in total; KLU, UNTZ, UNS and ENT were also present in addition to the UL, and they actively participated with presentations and discussion. Short presentations were also given by student representatives, university career centre, Slovenian Chamber of Commerce and HR personnel from the industry as well from CMPEPIUS (Erasmus+ office), according to the program. The first part that consisted of short presentations was followed with a discussion on major topics covered by the presenters, such as student career portal, curriculum modernization, industry needs, etc. The overall conclusion was that there exists a mutual motivation for future cooperation among the participants of the event. It is our aim to keep close contacts with the participating people throughout the duration of the project and beyond.

2.3   Open event in Sarajevo

An open event involving the community on academia-industry cooperation in teaching was held in Sarajevo on 12 June 2019, under the title "Promoting Industry-University Collaboration in the field of Telecommunications". Panel conference was dealing with the following main topics: telecommunication sector development in Bosnia and Herzegovina, a realization of strong university-industry collaboration, and the status of the telecommunication industry in Bosnia and Herzegovina. The participants included representatives of the University of Sarajevo Rectorate and Faculty of Electrical Engineering, University of Klagenfurt, University of Dubrovnik, and representatives of telecoms in Bosnia and Herzegovina. The event attracted 40 participants.

2.4   Open events in Zagreb: Ericsson Nikola Tesla Summer Camp Closing Days 2018 and 2019

Two open events in Zagreb were organized by ENT promoting the BENEFIT project at the Ericsson Nikola Tesla Summer Camp Closing Day. The Ericsson Nikola Tesla Summer Camp Closing Day is an open event organized at the end of Ericsson Nikola Tesla (ENT) Summer Camp, a workshop that ENT is organizing annually during five weeks of the academic summer break. The main goal of the Summer Camp workshop is to enable students working on projects in teams, solving real industrial problems in an industrial environment. Often, the students participating in the Summer Camp get the opportunity to receive an internship and/or student job at ENT, as well as the opportunity to work on an industrial problem for their thesis.

On 28 September 2018, the closing of Summer Camp was marked with day-long activities in the ENT company premises, including poster presentations, demo sessions, and closing ceremony. Along with numerous students and mentors who participated in Camp's activities, many representatives of the academia were present at the Camp's official closing ceremony, as well as public authorities, headed by Prof. Tome Antičić, PhD, State Secretary at the Ministry of Science and Education. He also gave a

speech during the event, where he emphasized the importance of cooperation between industry and academia, as well as the importance of student internships for the development of their future careers. The closing session attracted 48 participants and the poster session had over 100 attendees.

The next year, the closing of Summer Camp was marked on 4 October 2019. The event was endorsed by Gordana Kovačević, the president of the Ericsson Nikola Tesla Company, who emphasized the importance of cooperation between industry and academia and the impact that such collaborations have for student knowledge and career development. Professor Ignac Lovrek, a member of Croatian Academy of Sciences and Arts, also addressed the gathering and noted that the Summer Camp is one of the greatest local examples when it comes to cooperation between education and business. Professor Drago Žagar, dean of the Faculty of Electrical Engineering, Computer Science and Information Technology, University of Osijek, stressed the importance of student internships and partnership between universities and companies. Professor Darko Huljenić used this opportunity to present the BENEFIT project during his presentation and to highlight the collaboration with the project's academic partners in ENT Summer Camp 2019. The closing event was attended by 61 participant.

Both of these events served as an opportunity to present the benefits of collaboration between the academia and the industry to students, academia and representatives of public authorities, as well as representatives of other industry partners.

2.5   Open event in Novi Sad

An open event and dissemination involving the community on the topic of entrepreneurship was organized by the University of Novi Sad on 29 January 2021 in Novi Sad. During the event, the results of BENEFIT project were presented by Professor Andrea Tonello and project workpackage leaders. Professor Vojin Šenk gave a presentation on the topic of entrepreneurship in ICT in Western Balkan countries. Several other topics included in the Open Day schedule were: research trends in the field of telecommunications and signal processing, presentation of student activities in IEEE competitions, presentation of incoming hackathon organized by UNS and STEM education in the USA. The programme lasted from 10 to 15, and the topics were presented during seven sessions that attracted 54 people overall.

3   Special sessions at conferences and web-based events

In addition to the annual open events, several special sessions at the regional and international conferences were planned and organized during the project duration to increase outreach to a wide audience. Table 2 summarizes information about the planned and organized special sessions at conferences, as well as the web-based events. The column "Planned" indicates if the event was included in the planned scope of the project, or if it was realized as an additional activity outside of the planned scope. The column "Status" indicates whether the event was realized.

Table 2. Organized and planned special sessions at conferences and web-based events

Event	Organized by	Date	Planned	Status
InTsikt 2018	University of Tuzla, BIT Center Tuzla	22 May 2018	Yes	Organized
Seminar on cloud computing research and teaching	Cisco Serbia, University of Belgrade	13 March 2019	Yes	Organized

Event	Organized by	Date	Planned	Status
ZINC 2019	RT-RK	29 May 2019	Yes	Organized
IWSSIP 2019	University of Osijek	5-7 June 2019	No	Organized
InTsikt 2019	University of Tuzla, BIT Center Tuzla	10-11 June 2019	Yes	Organized
Joint BENEFIT & SGT-MAP Training Workshop	University of Klagenfurt	10-11 July 2019	Yes	Organized
TELSIKS 2019	University of Niš	23-25 October 2019	No	Organized
TELFOR 2019	University of Belgrade	27 November 2019	No	Organized
ERK 2020	University of Ljubljana	22 September 2020	Yes	Organized
SST 2020	FERIT	14-16 October 2020	No	Organized
InTsikt 2020	University of Tuzla, BIT Center Tuzla	16-17 November 2020	Yes	Organized

Information about the conferences and we-based events as well as related pictures are posted on the project website at
https://www.project-benefit.eu/?page_id=19 .

3.1 InTsikt 2018, 2019 and 2020 conferences in Tuzla

A special session for the purpose of disseminating information about the BENEFIT project was organized during the InTsikt conference in the years 2018, 2019 and 2020. InTsikt is an annual event with a focus on the latest achievements in information and communication technologies. It is plenary organized and focused on knowledge and experience exchange between the academia and the industry. The topic of InTsikt 2018 was "Bridging Digital Divide". InTsikt is prepared and organized by the Faculty of Electrical Engineering Tuzla, Faculty of Electrical Engineering Ljubljana and BIT Center Tuzla, and it is technically sponsored by the IEEE Section of Bosnia and Herzegovina. The total number of participants at InTsikt 2018 was 70. In the scope of the first day program, prof. dr. Matej Zajc from the University of Ljubljana presented general aims of the BENEFIT project. The special session with the title "Education of Modern Telecommunications Engineers: Project BENEFIT" was organized on 22 May 2018. Students of the University of Tuzla expressed their interest in the project and had the opportunity to exchange impressions with professors from partner universities.
The television of Tuzla Canton and RTV 7 reported about this event. During InTsikt, University of Tuzla (UNTZ) and Faculty of Electrical Engineering and Computer Science in Osijek (FERIT) signed joint Memorandum of Collaboration with the company AV Living Lab Ljubljana, Slovenia in the domain of autonomous vehicles.

The topic of InTsikt 2019, held on 10 and 11 June 2019, was "Career Opportunities in Information Communication Technology Engineering". The total number of participants at InTsikt 2019 was 65. In the scope of the first day program, a special session devoted to the BENEFIT project took place The special session included the following presentations: "Boosting the Telecommunications Engineer Profile To Meet Modern Society and Industry Needs – BENEFIT", "CABUNS as one of innovative teaching/learning methodologies applied at the BENEFIT project", and "BENEFIT: Overview of the Central Web Platform". Students of the University of Tuzla were present during a special session. The television of Tuzla Canton reported about this event.

The main topic of InTsikt 2020, held on 16 and 17 November 2020, was "Curriculum Development to Address New Challenges in ICT Education". The number of participants was 131. Due to the COVID-19 pandemic, this symposium was held online via Zoom platform. The first day was dedicated to the application of ICT in smart energy grids, while the special session of the BENEFIT project took place on the second day. During the special session, the main tangible outcomes of the BENEFIT project had been presented. Prof. dr. Andrea Tonello briefly presented the overall achievements. Leaders of development work packages (WP 2, WP3 and WP4) gave more details on the project implementation and tangible outcomes. At the end of the session, students participating in the round table expressed their impressions collected during internships, study visits and trainings.

In order to show synergy, harmonization and collaboration between ERASMUS + projects, two projects presented their activity and results: ELEMEND and VIRAL.

The overall impression is that the organization of an online symposium enables reaching a wider audience at the pan-European level and making a higher impact. The conclusion is that such events in the future should be organized in a hybrid manner: live to maintain social activities and networking, together with online presentations to reach wider audience and make a bigger impact.

Students of the BENEFIT partner universities as well as students from KTU Trabzon and METU Ankara in Turkey were presented during the special session.

3.2   Seminar on cloud computing research and teaching in Belgrade

A seminar on cloud computing research and teaching with the accent on collaboration tools in education was organized on 13 March 2019, by Cisco Serbia and University of Belgrade, School of Electrical Engineering in the Cisco office in Belgrade. Participants could also join via Cisco Webex session. The lecturer Aleksandar Vulović (Cisco) was talking about challenges in modern education and research, the use of online collaboration tools in education and practical case studies. This event attracted 34 participants, and the video recording of the seminar was made available after the event.

3.3   ZINC 2019 Conference in Novi Sad

During the Zooming Innovation in Consumer Technologies International Conference (ZINC) 2019, two student seminars were organized by RT-RK and the University of Novi Sad. The seminars were organized in accordance with the plan in WP4, and also served for the dissemination purposes to distribute the information about the BENEFIT project to the conference audience. The topics of the seminars included automotive communication, digital image and video processing in automotive systems, and Central Audio Library at the University of Novi Sad as a new teaching and learning methodology. The total number of participants attending both seminars was 49.

3.4   IWSSIP 2019 conference in Osijek

IWSSIP (www.iwssip.org) is an international conference on theoretical, experimental and applied signal processing. IWSSIP 2019 was held in Osijek, Croatia and it followed the successful events previously held in Budapest, Manchester, Poznan, Zagreb, Bratislava, Maribor, Bucharest, Prague, Chalkida, Rio

de Janeiro, Sarajevo, Vienna, Dubrovnik and London. The 26th International Conference on Systems, Signals and Image Processing, IWSSIP 2019 was held from 5 to 7 June 2019, and hosted by the Josip Juraj Strossmayer University of Osijek, Faculty of Electrical Engineering, Computer Science and Information Technology Osijek. It was technically sponsored by IEEE Section of Croatia, EURASIP and Croatian Academy of Engineering. The total number of participants at IWSSIP 2019 was about 90. During the IWSSIP 2019 conference, Andrea Tonello, Drago Žagar and Snježana Rimac-Drlje were presenting the scope and results of the BENEFIT project to the participants of the conference. The project was advertised also by the project roll-up sited on the conference venue. The television of Slavonia reported about this event.

3.5   Joint BENEFIT & SGT-MAP training workshop in Klagenfurt

The professional training workshop held in Klagenfurt on the 10 and 11 July 2019 was devoted to joint training activities in the framework of the ERASMUS+ projects BENEFIT and SGT-MAP. The first day Mr R. Susini from National Instruments, a company that produces automated test equipment and virtual instrumentation software, held presentation on data acquisition with hardware. Software and hardware developed by the National Instruments such as NI-CompactRIO and LabView were presented. A hands-on lecture was also offered, to practice on National Instruments USRPs and LabView. The presentations were done in collaboration with YottaVolt. The second day was devoted to three sessions: IoT and 5G, Research and teaching in ICT courses and Smart Grids. The total of fourteen lectures was held within the second day programme. The event involved several partners from both the SGT-MAP and BENEFIT projects. The lectures followed the schedule and several breaks were introduced to enhance collaborative discussions within the representatives of the partners. A total of 43 participants attended the event.

3.6   TELSIKS 2019 conference in Niš

The 14th International Conference on Advanced Technologies, Systems and Services in Telecommunications - TELSIKS 2019 was held at the Faculty of Electronic Engineering, University of Niš from 23 to 25 October 2019. The International Conference TELSIKS is a high-level scientific forum for international researchers and practitioners working in all areas of telecommunications to present and observe the latest research, results, and ideas in these areas. The conference is organized by the University of Niš, Faculty of Electronic Engineering and Society for Microwave Technique, Technologies and Systems (MTTS), Serbia. It is technically co-sponsored by the IEEE Microwave Theory and Techniques Society (MTT-S), IEEE Antennas and Propagation Society (AP-S) and IEEE Region 8. At the same time, as part of the TELSIKS conference, the Forum of Advance Technology was held in Niš in organization of the Chamber of Commerce and Niš Cluster of Advance Technologies-NiCAT. Within the programmes of these events, a dissemination was done by using materials related to the BENEFIT project. The project was advertised among the conference and forum participants, who came all over the world, and also through the project dissemination material such as roll-ups sited on the conference venue. Television of Serbia reported about these events.

3.7   TELFOR 2019 conference in Belgrade

The 27th Telecommunications Forum TELFOR 2019 was held at the SAVA Center (Belgrade, Serbia) from 26 to 27 November 2019. It was organized as an international meeting of those professionals working in the broad fields of Telecommunications and Information Technologies. The participants were mostly telecommunications engineers, but also the economists, jurists, managers, governmental officials, students, researchers, operators, service providers and others. Panel session "Boosting the

telecommunications engineer profile to meet modern society and industry needs" was organized on second day of conference and it was open to all TELFOR participants. Presentations at the panel session were devoted to results of the ERASMUS+ KA2 BENEFIT project. One presentation was devoted to Dual Education in Higher Education of Serbia and presented by representatives of another ERASMUS+ KA2 project DualEdu (https://dualedu.ef.uns.ac.rs/). The total of 30 participants attended the event.

3.8   ERK 2020 conference in Portorož

A special session in Portorož during the ERK 2020 conference was organized on 22 September 2020 for the purpose of the BENEFIT project results dissemination. Due to the COVID-19 pandemic, the planned travels were not executed and all conference papers were presented online. The event was held in hybrid mode, in person for local participants and online for the international participants. BENEFIT contributions consisted of nine conference papers that are available in the proceedings of the ERK 2020 conference. There were 24 attendees of the special session. Topics that were presented during the session included the project status and results, quality management of the project, newly adopted teaching methodologies, BENEFIT industry information portal, and the role of M2M communications laboratory formed within the BENEFIT project in education processes at the University of Niš.

3.9   SST 2020 Conference in Osijek

International Conference on Smart Systems and Technologies 2020 (SST 2020) is a conference organized and hosted by the Faculty of Electrical Engineering, Computer Science and Information Technology Osijek, Josip Juraj Strossmayer University of Osijek. The conference provided a platform for researchers and practitioners interested in the theory and practice of smart systems and technologies related to electrical engineering, communications, computer science and engineering, control systems, robotics, as well as interdisciplinary research and applications. During the SST 2020 Drago Žagar and Snježana Rimac-Drlje were presenting the scope and results of the BENEFIT project to the participants of the conference. The project was advertised also through the project roll-up sited in the conference venue. The BENEFIT project was presented together with the ERASMUS+ project e-ProfEng (Innovative Lifelong e-Learning for Professional Engineers) and the presentation gathered 25 attendees. Television of Slavonia reported about this event.

4   Conclusion

This document lists events used for promotion and dissemination of information related to the project BENEFIT scope and its achievements in the form of open events, as well as special sessions at the regional or international conferences. In the project proposal, ten events were planned for the described purpose, while seventeen were organized. All reports of the organized events are available in the project documents repository. A total number of 829 participants was reported for all the dissemination events organized by 10 February 2021, indicating significant progress in terms of the distribution of information about the project and its results. The estimated number of persons exposed to the information about the project is even higher due to the poster sessions, project dissemination materials exhibited at the conferences outside of the special sessions, and recorded sessions and webinars available online which did not formally track the participant number in the form of participant lists. Judging by the presence of media (television and radio) at the organized events, as well as the distribution of the event reports in the local newspaper, company and university newsletters, etc., we estimate that the dissemination effect is even further increased and aligned with the project dissemination plans.