Project No. 957406

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Deliverable 10.3

Initial Impact Creation Report

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Editor: INC
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# Acronyms

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<td>AIOTI</td>
<td>Alliance for Internet of Things Innovation</td>
</tr>
<tr>
<td>COVID</td>
<td>Coronavirus disease</td>
</tr>
<tr>
<td>CSA</td>
<td>Coordination and support action</td>
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<tr>
<td>CSR</td>
<td>Cyber Security and Resilience</td>
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<td>ETSI</td>
<td>European Telecommunications Standards Institute</td>
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<td>EuCAP</td>
<td>European Conference on Antennas and Propagation</td>
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<td>FGCS</td>
<td>Future Generation Computer Systems</td>
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<td>InoFA</td>
<td>Internet of Food Alliance</td>
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<tr>
<td>IoT</td>
<td>Internet of things</td>
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<td>iWAT</td>
<td>International Workshop on Antenna Technology</td>
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<td>KPI</td>
<td>Key Performance Indicator</td>
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<td>MEC</td>
<td>Multi-access Edge Computing</td>
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<td>MOCAST</td>
<td>Conference on Modern Circuits and Systems Technologies</td>
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<td>System Man and Cybernetics Society</td>
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Executive Summary

This deliverable presents the initial dissemination activities that took place during the first year of the TERMINET project. The reference points of communication are the website of the project and the social media channels that drive the dissemination of the project results to the stakeholders outside the TERMINET consortium. A detailed list of all publications is presented along with all events that the project participated in. Finally updated dissemination plans for all partners are provided.
1. Introduction

1.1 Purpose of the Deliverable

This deliverable is presenting the work conducted under WP10: Dissemination, Exploitation and Clustering Activities. It presents the communication and dissemination activities that the TERMINET consortium has performed during the first year of the project, along with the updated dissemination plans of the partners. All the communication and dissemination activities are part of Task 10.1 Publicity, Dissemination, and Clustering Activities that runs through the whole duration of the project.

The aim of the dissemination and communication activities is to increase the awareness of the project and its results, as well as to ensure that the knowledge and information gained can be made available to multiple target audiences at national, European, and global level.

The restrictions imposed by the COVID-19 have affected the participation in activities as most of the events were postponed while others took place virtually. To face this shortcoming, the focus has been given to the online communication channels. The website and the social media accounts are the main source of information about the project. Regarding the participation in physical events, the available options will be examined and evaluated for each case when new information is available.

1.2 Relation with other Deliverables and Tasks

The activities of WP10 receive input from all other tasks and deliverables of the TERMINET project.

1.3 Structure of the Document

The deliverable is structured in the following way:

- Section 2 presents an overview of the communication tools and how these were used for communicating the project results and news
- Section 3 presents the dissemination activities that took place during the first year of the project
- Section 4 presents the updated dissemination plans of the partners
- Section 5 presents an overview of the communication and dissemination KPIs and their current status.
2. Communication tools

2.1 TERMINET website

The TERMINET website (https://terminet-h2020.eu/) was created in the first month of the project and is the main communication channel of the project. A full report regarding the functionalities and its structure has been reported in D10.1 “TERMINET web site, social network pages and open access server”. The website contains information about the challenges, the objectives, short profiles of all partners, the publications that came out of the project and also the latest news and blog posts. A dedicated page about the upcoming Open Call has been created and will be updated with new content and information about the open calls and the procedure that will be followed.

2.2 Social media

TERMINET has accounts in Twitter and LinkedIn.

As described in Deliverable D10.2 “Plans for Publicity, Dissemination and Exploitation”, all social media accounts have been used to inform all the members of the social media platforms about the project’s objectives, its progress, results as well as updates originating from the project partners.

2.2.1 Twitter

The twitter account (@Terminet_H2020) was created in the first month of the project and is used to inform the public about the project news, participation in events, and updates. Twelve tweets have been posted until now and the account has 62 followers. Last month the tweets had gathered 645 impressions with the top one regarding the Personalized Healthcare blog post that gathered 315 impressions.

Figure 1: twitter profile
2.2.2 LinkedIn

The LinkedIn account ([https://www.linkedin.com/company/terminet/](https://www.linkedin.com/company/terminet/)) was also created in the first month of the project and has been used to inform professionals about the project news and latest blog posts. Ten posts have been published, while the page has 136 followers. All posts have gathered more than 100 Impressions, with the top one regarding the Personalized Healthcare blog post that gathered 256 impressions.
### Figure 3: LinkedIn profile

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### Figure 4: LinkedIn post impressions
3. Dissemination activities

3.1 Publications

The first year of TERMINET, partners have produced thirteen scientific publications, eight was in Journal and five in conferences. The complete list is the following:

Journals:


Conferences:


The paper "Dual-hop Blockchain Radio Access Networks for Advanced Coverage Expansion" received the award of Best Oral Presentation in 10th International Conference on Modern Circuits and Systems Technologies (MOCAST).

![Figure 5: Best Oral Presentation award](image)

### 3.2 Presence at events

During the first year of TERMINET, consortium members participated in four events disseminating the goals, objectives and outcomes of the project. Table 1 provides an overview of these events followed by a short description of each of the events.
Table 1: Presence at events

<table>
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<tr>
<td>2nd Global Conference on Artificial Intelligence and Applications (GCAIA 2021)</td>
<td>8-10/11/2021</td>
<td>Online</td>
<td>Panagiotis Sarigiannidis</td>
<td><a href="https://gcaia2021.uem.edu.in/keynote-speakers/">https://gcaia2021.uem.edu.in/keynote-speakers/</a></td>
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**Roundtable Discussion in Next Generation IoT and Edge Computing Strategy Forum**

The virtual Next-Generation IoT and Edge Computing Strategy Forum was organised by the European Commission in collaboration with the Horizon 2020 EU-IoT initiative and took place virtually on 22 April 2021. The event aimed at gathering top technology experts from across several digital and vertical domains, as well as corporate-strategy level representatives to exchange views on priorities, challenges and opportunities, and establish a commonly shared strategic European vision for the next-generation IoT and (far) edge computing.

Guest speakers included experts from companies such as ATOS, Bosch, Ericsson, Nokia, NXP, SAP, Siemens, Trialog and TTTech, research centres like CEA, Fraunhofer, KTH and SINTEF, along with organisations like AIOTI, ARTEMIS-IA, GAIA-X, ECLIPSE, ETSI, and IDSA with over 300 participants attending.

The over 30 speakers discussed how the EU can exploit its strengths in industry and how to drive the development of open platforms, as well as when competition and collaboration is of importance among global players. European industrial actors stressed that 80% of data processing and analytics will shift to running at the edge of the network, taking place in real-time, which is both more secure and energy efficient.

TERMINET Project Coordinator, Prof. Panagiotis Sarigiannidis, Associate Professor at the University of Western Macedonia, participated in the “Visionary Concepts” session, a discussion round between
industrial research actors, Research and Technology Organisations (RTOs) and universities, including speakers and representatives from OpenNebula, fortiss, ThreeFold Tech, University of Western Macedonia, and the French Atomic Energy Commission. During this session, the motivation behind TERMINET was presented as well as the objectives, the business logic, the architecture and the use case addressed by the TERMINET project.

The TERMINET project is part of the Next-Generation IoT (NGIoT) initiative (https://www.ngiot.eu/), a community of projects and related initiatives that aim to maximise the power of IoT made in Europe. NGIoT works to lower the barrier for adoption and development of IoT-empowered solutions, by supporting business models, innovation and skills.

The discussion of the forum addressed, amongst others, the following topics:

- How can Europe exploit its strengths in important industrial sectors in order to position itself well on the next generation of the IoT and edge computing?
- What are the most important trends and emerging concepts to drive the developments of open platforms for the IoT and edge computing?
- How can European actors compete with global players in the emerging Cloud-to-Edge-to-IoT ecosystem?
- How can collaboration between European digital and industrial actors be strengthened?

**NGIoT Thematic Workshop: Health and Care**
Dr. Aristodemos Pnevmatikakis, R&D Director of Innovation Sprint, participated in the “Strategic Agendas and Positions: New concepts in Smart Health & Care” session, where he presented the healthcare use case of TERMINET and the role of Innovation Sprint’s flagship product, Healthentia. The presentation of Dr. Aristodemos Pnevmatikakis, R&D Director of Innovation Sprint, in the “Strategic Agendas and Positions: New concepts in Smart Health & Care” session of NGIoT Thematic Workshop: Health and Care is publicly available at https://www.youtube.com/watch?v=tIxjs13irUI (starting at 1:56:40).

**IEEE International Conference on Cyber Security and Resilience**

The IEEE CSR is an international scientific conference with a focus on Cyber Security and Resilience in the field of Complex Cyber-Physical Systems. It is mainly sponsored by LOGOS in conjunction with IEEE System Man and Cybernetics Society (IEEE SMC) and endorsed by IEEE SMC Technical Committee on Homeland Security and IEEE Italy section.

The event attracted >150 highly qualified researchers from all over the world from both academia and industries. The event has been also supported by journals as IEEE Transaction on Emerging Topics in Computing (TETC), Sensors and Cybersecurity and Privacy (JCP).

LOGOS, as a main organiser, was present also with a virtual Booth where the materials related to TERMINET have been disseminated through online links. Moreover, since the virtual platform (provided by Colletivibe) included a live chat feature at the virtual booth to allow a direct interaction with the attendees, a dedicated person from LOGOS remained connected for the 3 days of the event (26-28/7/2021) to provide relevant information on the TERMINET projects with a live interaction.

**Keynote Talk in GCAIA 2021**

Associate Prof. Panagiotis Sarigiannidis was invited to present a keynote talk in the 2nd Global Conference on Artificial Intelligence and Applications (GCAIA 2021). The topic of the lecture was Next Generation Internet of Things: Requirements, Applications & Paradigms, where multiple applied topics in NG-IoT were demonstrated, based on national and European projects.

**3.3 Workshops and clustering**
During the first year, TERMINET partners have participated in three workshops and clustering activities. Table 2 presents an overview of these events, where a short description for each of them is provided in the next section.

Table 2: Workshops

<table>
<thead>
<tr>
<th>Title</th>
<th>Activity type</th>
<th>Date</th>
<th>Location</th>
<th>Presenter</th>
</tr>
</thead>
<tbody>
<tr>
<td>IoT Week 2021 – EU-IoT Open Calls Session</td>
<td>Workshop / Clustering activity</td>
<td>30/08/2021</td>
<td>Online</td>
<td>Panagiotis Sarigiannidis (UOWM) &amp; Jean-Baptiste Milon (MARTEL)</td>
</tr>
<tr>
<td>IoT Week 2021 – AIOTI Tutorial on Semantic Interoperability</td>
<td>Tutorial</td>
<td>02/09/2021</td>
<td>Online</td>
<td>Dave Raggett (W3C/ERCIM)</td>
</tr>
<tr>
<td>IoT Week 2021 – IoT Data Interoperability</td>
<td>Panel session</td>
<td>03/09/2021</td>
<td>Online</td>
<td>Dave Raggett (W3C/ERCIM)</td>
</tr>
</tbody>
</table>

**IoT Week 2021 – EU-IoT Open Calls Session**

The IoT Week 2021 conference was a virtual event organised from August 30, 2021 to September 3, 2021. The conference invited industry leaders, lead researchers and public service representatives not only from Europe but from around the world to share their views on how the technology can serve society better and identify what are the technological and societal challenges today.
TERMINET Project Coordinator, Prof. Panagiotis Sarigiannidis, Associate Professor at the University of Western Macedonia, and Mr. Jean-Baptiste Milon, Senior Project manager at MARTEL INNOVATE participated in the ‘Join the Next Generation IoT; upcoming Open Calls’ session, a discussion round the different opportunities for funding from across six Next Generation IoT projects, namely TERMINET, IoT-NGIN, iNGENIOUS, IntellIot, VEDLIoT and ASSIST-IOT participating in EU-IoT.

EU-IoT is a H2020 Coordination and Support Action project designed to support the Next Generation IoT initiative (NGIoT). The EU-IoT consortium consists of committed and expert organizations within the European IoT arena, such as IntraSoft, BluSpecs, Fortiss and Aarhus University that, under the lead of Martel Innovate (the EU-IoT Project Coordinator) will assist stakeholders to engage and create value, as well as set up a self-sustaining European IoT community. In particular, EU-IoT provides a collaborative framework, including standardization / open-source mapping, business analysis / modelling tools, as well as online courses and skill development means, to engage EU researchers, developers, integrators, and users.

During the specific IoT Week session, including around 100 participants, Prof. Panagiotis Sarigiannidis presented the basic objectives and use cases of the TERMINET project, while Mr. Jean-Baptiste Milon gave an overview of TERMINET’s open call directions.

**IoT Week 2021 – AIOTI Tutorial on Semantic Interoperability**

This was organised by members of the AIOTI WG Standardisation Expert Group on Semantics, as a tutorial on tooling and practices for semantic interoperability. Dr. Raggett presented a web-based demo for a smart home using a cognitive agent for reasoning about preferences, defaults and precedences, in respect to heating and lighting.

**IoT Week 2021 – IoT Data Interoperability**
This was a panel session focusing on data interoperability in the context of the IoT, including the large volume of data, the numerous data models and the high speed of collection. Different dimensions of IoT data interoperability exist like semantic interoperability, syntactical interoperability and the object abstraction interoperability. Basically, the semantic interoperability concerns the development of common data models and the related ontologies. The data formats are defined in the frame of syntactic interoperability. Finally, the vocabulary and the metadata descriptions are elaborated in the object abstraction interoperability. Dr. Raggett talked about the need for sticky metadata for data sovereignty and data integration, scaling challenges across multiple communities with different needs and perspectives, and the potential for the IoT to mimic human perception, reasoning, learning and actuation.

3.4 Blog posts

Blog posts have been published in the project’s website according to the plan described in D10.2: “Plans for Publicity, Dissemination and Exploitation”. Until the end of October seven blog posts has been published:

- TERMINET Integrated Platform: One Platform to Rule them All
- TERMINET’s Pathway of Personalised Healthcare: A technical perspective
- Using TERMINET to accelerate medical training
- TERMINET’s Edge-based Federated Learning Approach
- TERMINET’s Mixed Reality and machine learning in the maintenance procedures
- Use of blockchain technologies in IoT ecosystems
- Design of a Novel Orchestration Framework for TERMINET MEC-based Platform

3.5 Newsletter

Two issues of the TERMINET newsletter have been published, the first one presented some quick facts about the project and the challenges, while the second was an overview of the events where TERMINET was presented during the first year of the project. The number of subscribers to the newsletter is 61.

- 1st issue of the newsletter
- 2nd issue of the newsletter
Editorial

Welcome to the first newsletter of the TERMINET project, an EU Funded H2020 Project. This first edition provides you an introduction of the project. We hope you will find the content of this newsletter interesting, your comments and suggestions are always appreciated.

Introduction to TERMINET

TERMINET is a H2020 Project that aims to provide a novel next generation reference architecture based on cutting-edge technologies such as SDN, multiple-access edge computing, and virtualisation for next generation IoT, while introducing new, intelligent IoT devices for low-latency, market-oriented use cases. The project brings together 27 partners from 12 EU countries.

Figure 8: First Issue of the newsletter
3.6 Press releases

The following press releases have been published:

UOWM released a press release about TERMINET, see [https://ithaca.ece.uowm.gr/terminet-project/](https://ithaca.ece.uowm.gr/terminet-project/)

INC released a press release about TERMINET (https://www.incites.eu/project-and-studies/terminet)
4. Updated Dissemination plans

This section provides the updated dissemination plans of all partners.

4.1.1 UOWM

In the context of the TERMINET dissemination activities, UOWM will provide high-quality research papers in scientific journals, such as IEEE Communication Survey’s and Tutorials, IEEE Internet of Things Journal, ACM Computing Surveys, IEEE Transactions on Wireless Communications, IEEE Transactions of Industrial Informatics, Computer Networks and Sensors. Similarly, relevant book chapters and technical reports will be generated. Moreover, UOWM will participate in international scientific conferences like IEEE ICC, IEEE Globecom, IEEE Netsoft, ARES and IoTI4 Workshop. UOWM will also disseminate the TERMINET outcomes through its communication channels, including the ITHACA website and its social media: LinkedIn, Twitter, Facebook and YouTube. Therefore, blog posts, relevant videos and TERMINET newsletters will be generated. Finally, taking into account the COVID-19 pandemic, UOWM will organise and participate in social events and competitions, comprising summer schools, webinars/seminars, workshops and technical hackathons.

4.1.2 CERTH

CERTH/ITI is a leading European Research Institute in the ICT domain and regarding TERMINET’s dissemination activities, its contribution will revolve around academia and research. More precisely, CERTH’s activities will include presentations in major conferences, workshops and exhibitions, such as IEEE ICC, IEEE Globecom, IEEE Netsoft, ARES and IoTI4 Workshop, as well as further dissemination through its extensive network of European Research & Technology Organisations and its business network of technological companies in Europe. Moreover, CERTH will provide widespread and popular scientific journals, such as Springer, IEEE, Elsevier and ACM, papers with research results and technical reports. Last but not least, blog posts and articles will be created to further illustrate the importance of the results in a manner that is easy to capture by people who are not technologically adept and further participation in events, competitions, webinars/seminars and workshops/hackathons will be ensured to strengthen the understanding of the basic project aspects.

4.1.3 KI

In the TERMINET project, Karolinska Institutet (KI) participates via the Health Informatics Centre (HIC) as a use case partner, together with the Swedish SME Alteruna. Being a medical university, KI will pursue the open dissemination of project results in order to maximize the project’s impact and to promote the overall interest on its findings. In particular, KI will focus on the dissemination of two main research activities in the context of the use case. Firstly, to the adapting of a federated learning framework to the context of gesture recognition to support the VR for surgical training, and secondly to the use of edge node computing. KI aims to participate to specialized conferences in the field of health informatics, medical education and eHealth such as for example MIE, MEDINFO, and AMEE. In addition to conferences, the production of scientific articles for publication in impact factor journals in the fields of health informatics and medical education is also planned. KI has been already disseminating the TERMINET project and the role that the KI team has in the website of the institution: https://ki.se/en/lime/research-and-projects-at-
hic-0 and the KI team plans to contribute further to the project dissemination through social media and via KI’s communication channels.

4.1.4 PPC

PPC will leverage its industrial contacts and partnerships as well as the established public channels to promote TERMINET to the public and stakeholders. In particular, as leader of Use Case 6 (UC6), PPC will utilize the progress of the demonstrator preparation in order to produce lightweight dissemination material that communicates the TERMINET progress as well as explaining the industry use cases that TERMINET addresses. Moreover, PPC aims to communicate TERMINET’s results to practitioners via joint publications in conferences and international journals and participations in seminars, fairs and workshops related to big data analytics, IoT architectures, software-defined networking and artificial intelligence. Indicatively, as a power company, PPC can participate and represent the consortium at the Enlit Europe event, which brings together stakeholders and project in the domains of energy and new technologies.

4.1.5 AUTH

AUTH aims at the scientific dissemination of the project’s results through the publication of research articles in high-quality international journals (such as IEEE Access, IEEE Transactions on Wireless Communications, IEEE Transactions on Communications, IEEE Transactions on Sustainable Computing, IEEE IoT Journal (IoT-J), IEEE Communications Letters and IEEE Transactions on Antennas and Propagation), book chapters (Springer, IGI Global, IET), international conferences (IEEE Global Communications (Globecom), IEEE International Conference on Communications (ICC), IEEE Infocom, European Conference on Antennas and Propagation (EuCAP), IEEE International Workshop on Signal Processing Advances in Wireless Communications (SAPWC), International Workshop on Antenna Technology (iWAT), International Conference on Modern Circuits and Systems Technologies (MOCAST) on Electronics and Communications), patents and the website. The most important scientific results will be published in scientific journals, with the open access option. The planned activities include the participation at international conferences, workshops and technology/market exhibition events, as well as the organization of workshops related to NGIoT. Moreover, special sessions will be organized in IEEE sponsored international conferences and special issues with the project topic will be planned in high-quality international journals.

4.1.6 SCHN

Schneider Electric aims to contribute on the dissemination of TERMINET project participating in UC6 field relevant conferences, workshops and other relevant dissemination events, as well as collaborating with other UC6 involved partners on the publication of research articles for international journals or conferences. In addition, Schneider Electric will make use of the international presence of the company and its leadership in the sector to disseminate the results of the project to internal and external customers of the energy supply chain by means of their own internal communication channels.

4.1.7 FINT

The commercial solutions that FINT is currently offering lies in the domains of Smart Infrastructures, Smart Cities and Smart Agriculture. As the company is heavily involved in various projects in these domains,
working with the related stakeholders, FINT is planning through targeted dissemination activities to contact these target groups and the wider audience behind them and disseminate TERMINET’s advancements and possible solutions. Moreover, FINT has serious interest to disseminate the project results in order to increase its client’s awareness and portfolio. Additionally, as a high innovative company FINT will disseminate project results to create awareness in the scientific community.

4.1.8 TEI

The dissemination activity of project results is instrumental for the TEI purposes to incorporate in TEI portfolio of products and solutions the development experience of TERMINET experimentations. The strengthening of the position in Corporate market is main target, for the focus area of product and service offerings in network security, for provisioning of new security functions in NFVI and NFV Orchestration and Management solution that can improve trustworthiness in edge platforms and IoT networks, in both virtualized network functions and network infrastructures.

TEI dissemination activities can be mapped over different perspectives. There is the industrial research perspective in which can be involved technical experts from industry and research, academic researchers, ICT open-source communities. The business targets are also in focus, mainly referring to contacts with customers and internal corporate stakeholders. Finally, the Standardization participation can provide actions in the community working on ETSI NFV ISG for the aspects related to IoT applications applied to 5G transport.

The dissemination plan will be addressing multiple channels, where to showcase research and innovation results at various scientific and industrial events, conferences, workshops.

Specifically, the addressed venues will include:

- Webinars at Industry associations about 5G and IoT security for the security and IoT-applied transport capabilities experimented in TERMINET
- Presentations and demos at Ericsson R&D Italy Innovation Day, where customers can touch the latest research and developments innovations by listening the voice of Ericsson employees
- Webinars to the national Universities, closest to the TEI R&D territorial locations, on security by design themes as applied in the development of new generation edge and IoT network solutions
- Scientific seminars and research publications at academic conferences and journals, around security and trustworthiness in 5G and next generation telecommunication services, like CSA for the security aspects and IEEE Services for IoT transport application cases.

4.1.9 iSPRINT

Innovation Sprint ‘s dissemination aim in TERMINET is to raise awareness to stakeholders around Good Clinical Practice (GCP). This will be achieved by their participation in conferences and events from the Pharmaceutical industry. Also, Innovation Sprint is actively disseminating TERMINET in press releases, their web site (https://innovationsprint.eu/portfolio/terminet/), their social media channels (Twitter and LinkedIn) and is contributing blog posts to the project’s web site.
4.1.10 AFS

The main goal of dissemination for AFS is the introduction of high technology to the producers and other Agrifood stakeholders in order to familiarise them with it. The main target groups are Xanthi and Kilkis animal breeders will know how to utilize the technologies and will adopt new technologies and integrate them into daily productive routine. The aforementioned activities will be achieved through presentation and on-site trainings of project’s stakeholders. TERMINET outcomes will be presented in the two International agriculture fairs (Agrotica and Zootechnia). Both events are with considerable local and regional impact in the agricultural sector. Results will be disseminated to all stakeholders of the Internet of Food Alliance innovation cluster (InoFA) which is being coordinated by AFS. The cluster is an effort to connect all the links of the agri-food chain and those who provide materials and services to it under a common umbrella based on high technology and the Internet of Things. As the purpose of the cluster is to create synergies between the participants and civil society in order to develop new digital products and services, TERMINET will be presented to real economy.

4.1.11 INTRASOFT

INTRASOFT will reach potential stakeholders through its existing portfolio of hundreds of customers in several countries worldwide via its marketing tools and in the company’s website, social media accounts and newsletters. Dissemination of project’s results in several national, European outlets and participation to workshops, symposia, related events, conferences, exhibitions, trade fairs, workshops, fora, start-up meetups, etc. such as Blockchain Expo, FIWARE summit, IoT week, AI and Big Data Expo, etc.

4.1.12 SID

SID intends to enhance TERMINET dissemination plans in a) publishing scientific articles in international journals such as IEEE Internet of Things Journal and IEEE Global Conference on Internet of Things. Moreover, SID will prepare public material on TERMINET’s scope and updates and will promote them through SID’s website and social media profiles.

4.1.13 UBITECH

UBITECH has a well-established portfolio in the area of cloud computing offering an innovative framework for vertical application orchestration (VAO) atop leading container-based cloud technologies (i.e., Kubernetes) and infrastructure as a service (i.e., OpenStack). As the VAO was initially designed for cloud-only workloads, TERMINET was a unique opportunity for UBITECH to expand their activities towards the IoT ecosystem, especially focusing on the emerging Industry4.0 and robotics vertical sectors. UBITECH takes advantage of their role as leader of TERMINET’s SDN-enabled vMEC scheme to extend the VAO’s orchestration capabilities towards network resources. This synergistic orchestration of compute and network resources will result in an end-to-end cloud-native VAO, providing cross-layer (i.e., application and network layer) elasticity empowered by TERMINET’s programmable data plane.

UBITECH aims to strengthen their market impact and current business by (i) promoting the enhanced VAO features to their existing customers, supporting additional IoT and Industry4.0 application workloads and (ii) increase their market share with new customers stemming more from the networking world, which was quite far-fetched given the initial market position of the VAO. To do so, UBITECH will participate in
relevant industry-oriented technology events and exhibition booths, while at the same time leverage social media and web channels to disseminate the TERMINET outcomes to a broader audience. With respect to scientific dissemination activities, UBITECH will focus on systems-oriented venues/workshops, where new features of the VAO could be potentially presented from a research perspective.

4.1.14 INC

INC is leading the communication and dissemination activities of TERMINET. INC will disseminate TERMINET achievements through workshops, conferences such as the CTTE conference and own publications (INC newsletter). In addition, INC will actively contribute to the creation of scientific papers and publications in international Journals (e.g. Telecommunications Policy, Telematics, and Informatics) and Magazines (e.g. IEEE Communications Magazine). Finally, INC is willing to announce the main results of the project through its personal website as well as its accounts on social media (Facebook, Twitter, and LinkedIn).

4.1.15 8BL

8BL will communicate project results through its social network pages (LinkedIn, Twitter) as well as on its website. Through its implication in the development of the AR/VR framework, 8BELLS will disseminate the results from the relevant activities during the second year of the project regarding AR/VR implementations in the context of NG-IoT. 8BL will actively contribute to the creation of scientific papers and publications in international Journals and Magazines, while knowledge will be widely disseminated through the participation in conferences, events, workshops and demonstrations. Below is a list of foreseen, targeted events.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Month</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>IoT World 2021</td>
<td>M13</td>
<td>September 2021</td>
</tr>
<tr>
<td>24th edition of Laval Virtual (AR/VR)</td>
<td>M18</td>
<td>April 2022</td>
</tr>
<tr>
<td>IOT Solutions World congress (Industry IoT Consortium)</td>
<td>M19</td>
<td>May 2022</td>
</tr>
<tr>
<td>IOT Week 22 (IoT Forum)</td>
<td>M20</td>
<td>June 2022</td>
</tr>
<tr>
<td>International Conference on Cognitive Computing and Internet of Things (WASET)</td>
<td>M22</td>
<td>August 2022</td>
</tr>
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</table>

4.1.16 MEVGAL

MEVGAL intends contribute to TERMINET’s dissemination plan through publishing information about the project and MEVGAL’s role to it on a part of the upcoming new website which will be dedicated to projects.
Emails about the progress and the results of UC4 are also going to be sent to company executives in order for them to have a better understanding of the benefits of TERMINET.

4.1.17 UNIBO

One of the targets of UNIBO in TERMINET is to consolidate its current know-how and enforce its position in fog/edge computing for quality-aware distributed applications, in particular in the Industry 4.0 domain, as well as to position the Mobile Middleware group at UNIBO at the top 5% level in Italy as far as research and technology transfer is concerned.

These developments will be 1 year from commercial/scientific use at the end of the project and will initially address the Italian market (short-term), going at the EU level in the medium-, long-term. The sectors of potential application are easily extensible to any quality-sensitive process for Industry 4.0 that take advantage of edge and data availability, e.g., online reconfiguration of manufacturing lines and optimized manufacturing parameter tuning based on locality considerations.

UNIBO has already started to (i) use the TERMINET stack in the “Computer Science and Engineering” MSc in 1 course (Mobile Systems M) and planning to further extend the contents to employ the TERMINET horizontal services in, at least, 2 BSc Mini-Theses (6ECTS) and 4 MSc graduation works (24ECTS), and to (iii) organize at least 2 consultancy/training activities to industry beyond the consortium (probably within the consortium of the BI-REX competence centre) etc.

Regarding the scientific dissemination activity, UNIBO plans to publish high quality research in relevant international journals (such as IEEE Transactions on Network and Service Management, IEEE IoT Journal (IoT-J), IEEE Transactions of Industrial Informatics, Computer Networks etc.), and in international conferences (IEEE Global Communications (Globecom), IEEE International Conference on Communications (ICC), IEEE Infocom etc). The most important scientific results will be published in scientific journals, with the open access option. The planned activities include the participation at international conferences, workshops and technology/market exhibition events, as well as the organization of workshops related to NGIoT. Moreover, special sessions will be organized in IEEE sponsored international conferences and special issues with the project topic will be planned in high-quality international journals.

4.1.18 LOGOS

In the context of the TERMINET dissemination activities, LOGOS will produce high-quality research papers in scientific conferences and journals. In particular will be targeted Future Generation Computer Systems (FGCS), IEEE Communication Survey’s and Tutorials, IEEE Internet of Things Journal, ACM Computing Surveys, IEEE Transactions of Industrial Informatics, Sensors, Cybersecurity and Privacy, IEEE Transaction in Emerging Topics in Computing (TETC), IEEE Access. Similarly, relevant book chapters and technical reports will be generated (an IEEE Book chapter in under production).

Moreover, LOGOS will organize or participate in international scientific conferences and workshops like IEEE Int. Conf on Cyber Security and Resilience (IEEE CSR), IEEE SERVICE, IEEE SMC, IEEE Netsoft. LOGOS will also disseminate the TERMINET outcomes through its communication channels, including the organization website, and social media (LinkedIn, Twitter, Facebook – forthcoming). Therefore, periodical
posts, will be generated or messages coming from the TERMINET account will be re-posted/forwarded to increase their visibility. Finally, LOGOS will continue to disseminate TERMINET results in the F2F Innovation Café meetings periodically organized with the relevant partners.

4.1.19 TECN

TECN proposes to improve TERMINET's dissemination plans by publishing at least one article scientist in an international journal, such as IEEE Communication Survey’s & Tutorials, IEEE Internet of Things Journal, ACM Computing Surveys, or IEEE Transactions of Industrial Informatics. Similarly, relevant book chapters and technical reports could be generated. Moreover, TECN will also disseminate the TERMINET outcomes through its communication channels, including the blogs (http://blogs.tecnalia.com/inspiring-blog/) and its social media: LinkedIn, Twitter.

4.1.20 ERCIM

W3C/ERCIM is expecting to attend IoT Week 2022 in Dublin on June 20th to June 23rd to promote the work being done in TERMINET, along with our involvement in the AIOTI WG Standardisation.

4.1.21 NEC

NEC's main focus within the TERMINET project is in system monitoring, in particular, the real-time verification of interactions between system components and the processing of sensitive data against system and security policies. The research results within TERMINET will be used to enhance NEC products for securing IT infrastructure, including networking and information processing. NEC Labs Europe (NLE) works in collaboration with NEC’s business units and shares the research results. The research results will drive the building of prototypes by NLE and these will be presented and discussed with NEC’s business units. The prototypes will be further enhanced by the business units including the development and implementation of new features and maturing the platforms for commercial readiness. NEC will further use the TERMINET project results to enhance its security and IT infrastructure products and services. NEC expects the research results from the TERMINET project to make its products more innovative and competitive.

4.1.22 MARTEL

In the context of the open call dissemination and communication, Martel, as Coordinator of EU-IoT CSA is driving Ecosystem Expansion and Empowerment (WP9) and is closely aligned with the EU-IoT projects communications and dissemination of open calls.

In the initial 12 months’ reporting period of TERMINET, Martel is laying the groundwork to ensure a successful and impactful open call in order to select the top four proposals, to be showcased on the TERMINET platform.

Initial impact creation activities include participation in the EU-IoT Open Calls event at IoTWeek21 as outlined above; as well as participation at the monthly EU-IoT Regular Open Calls Group Meeting. These meetings are an opportunity to share lessons learned and best practices in terms of conducting open calls. TERMINET is also a regular participant in the monthly EU-IoT Communications Task Force meeting where communications focal points give updates to promote awareness of upcoming and ongoing open calls.
In the next reporting period of the TERMINET project, it is foreseen that impact creation shall support the open call process along the following timeline:

<table>
<thead>
<tr>
<th>Activity</th>
<th>Month</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Participation in EU-IoT open calls Monthly Calls and Communications Task Force meetings for knowledge management of best practices and lessons learned of impact creation</td>
<td>Ongoing</td>
<td>Ongoing</td>
</tr>
<tr>
<td>Pre-announcement of the Call in the project website, and via social media</td>
<td>M19</td>
<td>May 2022</td>
</tr>
<tr>
<td>Call opening announcement on the project website, on the NGIoT website and via social media as well as TERMINET newsflash and NGIoT newsletter</td>
<td>M21</td>
<td>July 2022</td>
</tr>
<tr>
<td>Deadline for submission of proposals, communicated via social media.</td>
<td>M23</td>
<td>September 2022</td>
</tr>
<tr>
<td>Notification of selected applicants on the TERMINET website and the NGIoT website as well as social media.</td>
<td>M24</td>
<td>October 2022</td>
</tr>
<tr>
<td>Projects start communicated on the project website.</td>
<td>M26</td>
<td>December 2022</td>
</tr>
<tr>
<td>Projects results communicated via all dissemination channels.</td>
<td>M30–36</td>
<td>April–September 2023</td>
</tr>
</tbody>
</table>

4.1.23 OPTINVENT

Optinvent aims to disseminate project’s results after having a material for scenario execution to show the benefits of developed solutions and to rise interest with potential customers. Optinvent target to attend international conferences and exhibitions like Augmented World Expo (https://www.awexr.com/) that usually held in USA and Europe, as well as Laval Virtual (www.laval-virtual.com) conference and expo in Laval France in April next year.

4.1.24 I2CAT

Projects’ results will be disseminated in academic and industry conferences, as well as publishing articles in relevant peer-reviewed journals in the field of IoT.

Presentation of papers at relevant international conferences in the field:

I2CAT will show results of applying RINA based solution in relevant conferences such as IEEE World Forum on the Internet of Things (WF-IoT), EUCNC 6G Summit, IEEE GLOBECOM and IEEE ICC. These conferences are held annually in major European cities. The results will trigger new debates and technological
strategies in the field of research, impacting new perspectives and approaches to overcome the limitations of IoT enablers’ technology.

**Publishing articles in relevant peer-reviewed journals:**

I2CAT is considering to publishing articles in relevant journals such as IEEE Internet of Things Journal, Elsevier Computer Communications, IEEE Communication Magazine, and MDPI Sensors. Two articles will present the results of applying the RINA-based solution developed in TERMINET UC3. These articles will emphasize disseminating system implementations details, experiments, results, and analyzing the benefits of using RINA-based solution.

**Presence at Events:**

The UC3 solution will be presented in the IoT Solutions World Congress 2023.

4.1.25 FPG

Fondazione Policlinico Gemelli aims are still to promote the TERMINET EU project through both academy- and general public-oriented dissemination activities. FPG is actively sharing TERMINET progress and results with the general public through its official LinkedIn profile and website (www.gemelligenerator.it). FPG will also be committed to sharing TERMINET outcomes with researchers from the medical and hospital management field by publishing high-quality review and experimental papers.

4.1.26 ALT

Alteruna participates in the TERMINET project with Karolinska Institutet (KI), via the Health Informatics Centre (HIC), as use case partners for use case 5, training in virtual reality of surgical teams.

We will focus on research activities for the scenarios 1 and 3, adaptation of edge node computing and a federated learning framework.

The Alteruna/KI training concept relies on real-time communication between system components. The integration within the TERMINET platform of the edge computing capabilities and the Federated learning Framework will be an essential outcome of the TERMINET project. The performance of The TERMINET IoT over 5G will be in focus of evaluation.

Alteruna will disseminate its participation in the TERMINET project, and the result of the project, in various ways. There is information our web site (http://www.alteruna.com), where we market ourselves as a TERMINET consortium member, we communicate Terminet-related information via our Linkedin profiles, and we market our presence within TERMINET at our co-working space H2 in Stockholm.
5. Dissemination KPIs

The monitoring of the dissemination and communication activities of the project is an essential process that is used to evaluate the success and the efficiency of the dissemination and communication plan that was drafted at the beginning of the project and presented at D10.2 “Plans for Publicity, Dissemination and Exploitation”. The KPIs were also introduced in same deliverable, their description and the current values are presented in Table 5.

Table 5: KPIs

<table>
<thead>
<tr>
<th>KPI</th>
<th>Description</th>
<th>Objective</th>
<th>Current value (first year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>KPI1</td>
<td>Workshops co-located with major conferences</td>
<td>Number of workshops organised (1-2 per year) Number of participants in each workshop (~50)</td>
<td>Participated in 3 workshops</td>
</tr>
<tr>
<td>KPI2</td>
<td>On-site demonstrations</td>
<td>≥ 2 demonstrations</td>
<td>This activity will take place in the third year of the project</td>
</tr>
<tr>
<td>KPI3</td>
<td>Scientific papers</td>
<td>Number of workshop papers published (1-3 per-year) Number of conference papers published (1-2 per-year) Number of journal papers published (1-2 per-year)</td>
<td>8 papers in Journals 5 papers in Conferences</td>
</tr>
<tr>
<td>KPI4</td>
<td>Social networks posts</td>
<td>Number of TERMINET posts (≥10) Number of contacts (≥100) Number of likes (≥ 50 likes / share) Number of comments (≥2 com. / share)</td>
<td>Posts: 24 (14 Twitter and 10 LinkedIn) Twitter followers: 62 LinkedIn followers: 136 Likes: 105 Shares: 20</td>
</tr>
<tr>
<td>KPI5</td>
<td>Participation and/or Attendance to exhibitions</td>
<td>Number of project brochure copies delivered (≥20)</td>
<td>This activity will take place in the second and third year of the project</td>
</tr>
<tr>
<td>KPI6</td>
<td>Open events with free access, where visitors will realize in a lively way the TERMINET benefits</td>
<td>Number of summer schools (≥1) Number of attendees (≥50) Number of open events (≥1)</td>
<td>This activity will take place in the third year of the project</td>
</tr>
</tbody>
</table>
## Initial Impact Creation Report

### KPI Overview

<table>
<thead>
<tr>
<th>KPI</th>
<th>Description</th>
<th>Objective</th>
<th>Current value (first year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>KPI7</td>
<td>Online publishing (online magazines, newspapers, blogs)</td>
<td>≥ 5 publications / year</td>
<td>Number of blog publications: 7</td>
</tr>
<tr>
<td></td>
<td></td>
<td>≥ 500 views</td>
<td></td>
</tr>
<tr>
<td>KPI8</td>
<td>Inclusion of light content for non-specialized audience in the project website, blog, social media, as well as publishing “lighter” versions of project newsletters, leaflets, flyers, etc</td>
<td>Number of non-specialized material ≥5</td>
<td>2 issues of the newsletter have been published</td>
</tr>
<tr>
<td>KPI9</td>
<td>Participation in media (TV, newspapers, radio) events in order to communicate TERMINET results of the project and explain its benefits to EU citizens, industry, etc</td>
<td>Number of media appearances ≥5</td>
<td>No media appearances during the first year</td>
</tr>
<tr>
<td>KPI10</td>
<td>TERMINET news will appear in blogs and websites targeting nonspecialized audience, especially the youngest one, focusing on technology news and trends</td>
<td>Number of reads ≥100</td>
<td>121 views of the published blog posts on the website</td>
</tr>
</tbody>
</table>

The section that follows provides information for each of the communication and dissemination KPIs along with the plan to meet them.

**KPI1: Workshops co-located with major conferences**

Participated in three workshops during the IoT week. We plan to organize workshops the next year.

**KPI2: On-site demonstrations**

This activity is planned to take place during the final year of the project.
KPI3: Scientific papers
There were five papers published in conferences and workshops and eight Journal publications during the first year of the project. The achieved value for this KPI has been higher than the minimum expected.

KPI4: Social Network Posts
The KPI is on track for the first year. More specifically, the LinkedIn account of TERMINET has 135 followers in total and the Twitter account 62. A total of 24 posts have been made exceeding the target KP. The target for likes and shares has been met since 105 likes and 20 shares have been gathered.

KPI5: Participation and/or attendance to exhibitions
This event is planned to take place in the last year of the project.

KPI6: Open events with free access
This event will take place in the last year of the project.

KPI7: Online publishing (magazines, newspapers, blogs)
There have been seven blog posts during the first year of the project, the KPI is on track.

KPI8: Inclusion of light content for non-specialized audience in the project website
Two issues of the newsletters have been published until now.

KPI9: Participation in media (TV, newspapers, radio) events
No media appearances took place during the first year of the project these are expected to happen in the next two years when there are more results coming out of the project.

KPI10: Views of blog publications
Until now the blog publications had 121 page views.
6. Conclusions

This deliverable presents the dissemination activities that have been conducted in the first year of the project. It presents an overview of the main communication channels, the website and the social media and the content that were disseminated through these. It provides a list with all publications and all the events that partners from TERMINET participated. Following the first year of project activities, the partners have processed and adjusted their dissemination plans.