

## TERAhertz integrated systems enabling 6G Terabit-per-second ultra-massive MIMO wireless networks

### Deliverable D1.2: TERA6G announcement

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Dissemination level		
PU	Public	X
PP	Restricted to other programme participants (including the Commission Services)	
RE	Restricted to a group specified by the consortium (including the Commission Services)	
CO	Confidential, only for members of the consortium (including the Commission Services)	



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## Document updates

Version	Date	Author	Organisation	Changes
0.0	04/03/2023	G. Carpintero	UC3M	First draft. Sent to partners
0.1	07/03/2023	G. Carpintero	UC3M	Included info from partners

## Abbreviations

<b>mmW</b>	Millimetre wave frequency (30 GHz–300 GHz)	<b>Rx</b>	Receiver
<b>PIC</b>	Photonic integrated circuit	<b>Tx</b>	Transmitter
<b>PCA</b>	Photoconductive antenna	<b>THz</b>	Terahertz wave frequency (300 GHz–3 THz)

## Statement of independence

The work described in this document is genuinely a result of efforts pertaining to the TERAmeasure project. Any external source is properly referenced.

Confirmation by Authors:

Guillermo Carpintero, Universidad Carlos III de Madrid

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## **Executive Summary**

This deliverable will report the different means through which the project start is disseminated to reach a variety of stakeholders.

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## 1. Introduction

This deliverable reports the different means that the TERA6G consortium has identified at the present stage to report the project start and reach a variety of stakeholders maximizing the impact.

We have started a website, which hosted in the coordinating partner, a public University in Spain, will remain active after the project ends (This will give perdurability to the contents published). A news of the project start has been already included, and disseminated through the personal linkedIn accounts. In addition, for the news to be published in the website, a template is provided, for all partners to use this common information channel and increasing the interest of the information on the project website .

This deliverable reports as well the different means that we have identified to reach the audiences, and defined effectiveness metrics. These means will be used throughout the life of the project, and the metrics will allow us to evaluate the impact.

This document also includes the contact points for the different channels, to provide a quick guide to the dissemination channels.

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## 2. Electronic media

### 2.1 Website

The TERA6G project website main purpose is for the dissemination towards the broad public. For this purpose, we have decided to host it within Universidad Carlos III de Madrid web pages which ensures that the information contained will be accessible from now on since there are no costs associate with the maintenance of the page or the web address. This address, which will be disseminated and referenced in journal papers, will remain accessible after the project is ended.

The website address is <https://www.uc3m.es/investigacion/tera6g>

An image of the website is shown in **Figure 1**.

The screenshot shows the home page of the TERA6G project website. At the top, there is a navigation bar with the UC3M logo and the text "Universidad Carlos III de Madrid". To the right, there are links for "Sede electrónica", "Intranet PDI/PAS", "Aula Global", and a language selector for "EN". Below the navigation bar, there is a horizontal menu with categories: "CONÓCENOS", "ESTUDIOS", "ADMISIÓN", "INVESTIGACIÓN", and "VIDA UNIVERSITARIA". The main content area is titled "TERA6G HOME" and includes a breadcrumb trail: "Inicio / Investigación y transferencia / Proyectos de investigación / TERA6G / TERA6G Home". On the left, there is a sidebar menu with links: "> Home", "> TERA6G About", "> TERA6G Consortium", "> TERA6G Dissemination", and "> TERA6G NEWS". The main content area features a large banner with the text "TERA6G" and "TERAHERTZ FOR 6G" alongside the 6G SNS logo. Below the banner, there is a text block describing the project: "TERAhertz integrated systems enabling 6G Terabit-per-second ultra-massive MIMO wireless networks. TERA6G is a HORIZON EUROPE project funded by the European Union whose objective is to develop a new generation and State-of-the-Art THz transceivers employing massive MIMO for beyond-5G networks enabling the Fiber-over-the-air Concept. See About the project". Below this, there is a "News" section with a thumbnail image of a video conference and the text "> Project Launch - Kick-Off Meeting January 2023". On the right side, there is a "Contacto" section with the text "Project Coordinator Prof. Guillermo Carpintero guiller@ing.uc3m.es" and a "Compartir" (Share) button. At the bottom of the page, there is a footer with links for "Contacta", "Ayúdanos a mejorar", "Accesibilidad", "Perfil del Contratante", and "Información Legal", along with the UC3M logo and the text "© Universidad Carlos III de Madrid".

Figure 1. Home page of TERA6G project website hosted at UC3M web pages.

Concerned with dissemination, the website has two main sections:

- **TERA6G dissemination:** The dissemination section incorporated key subsections, offering a one-stop-shop for all the public information of the project. These sections are shown in **Figure 2**.



Figure 2. Dissemination section in TERA6G project website.

- **TERA6G news:** The news section, shown in **Figure 3**, stores all the news published in the website. The most recent, are shown as well in the home page as shown in **Figure 1**, showing the first new of the project is the celebration of its kick-off meeting.

In order to publish news in the TERA6G website, we have created the NEWS template shown in **Annex I**, which can be filled by any partner and sent to the project coordinator to include a news in the project website.

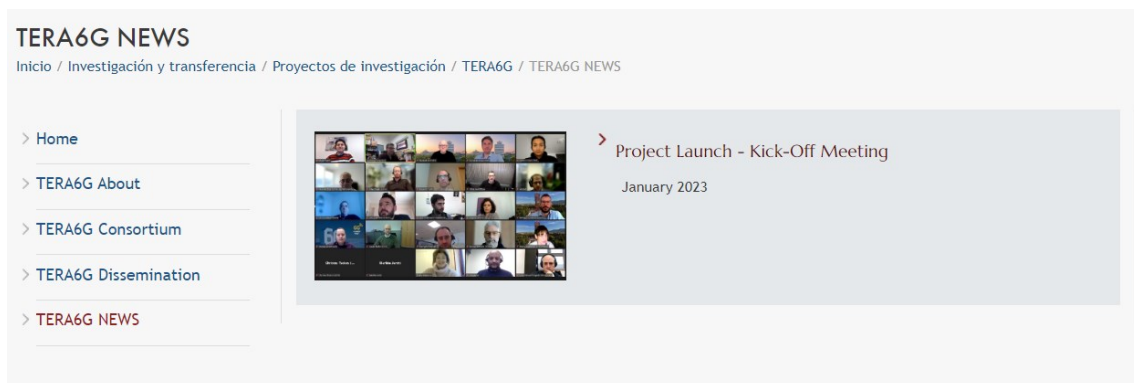


Figure 3. Home page of TERA6G project website hosted at UC3M web pages.

**Effectiveness index:** We are requesting the university to add a visits counter, which we have been told will be added. This request is not new, and we foresee difficult to achieve measures.

## 2.2 Social media

The dissemination through social media is done at two levels, the personal accounts of the researchers involved in the project, and the creation of accounts for the project itself.

**Professional social media profiles of involved researchers:** In the initial phase of the project, TERA6G activities will be disseminated in social media through the professional profiles of the researchers involved in the project. These have a large number of followers, and allow to reach a large audience in the initial phase, in which the project has just started. As shown in **Figure 4**, the news of the project Kick-Off through the LinkedIn profile of the coordinator has reached close to 2000 people.

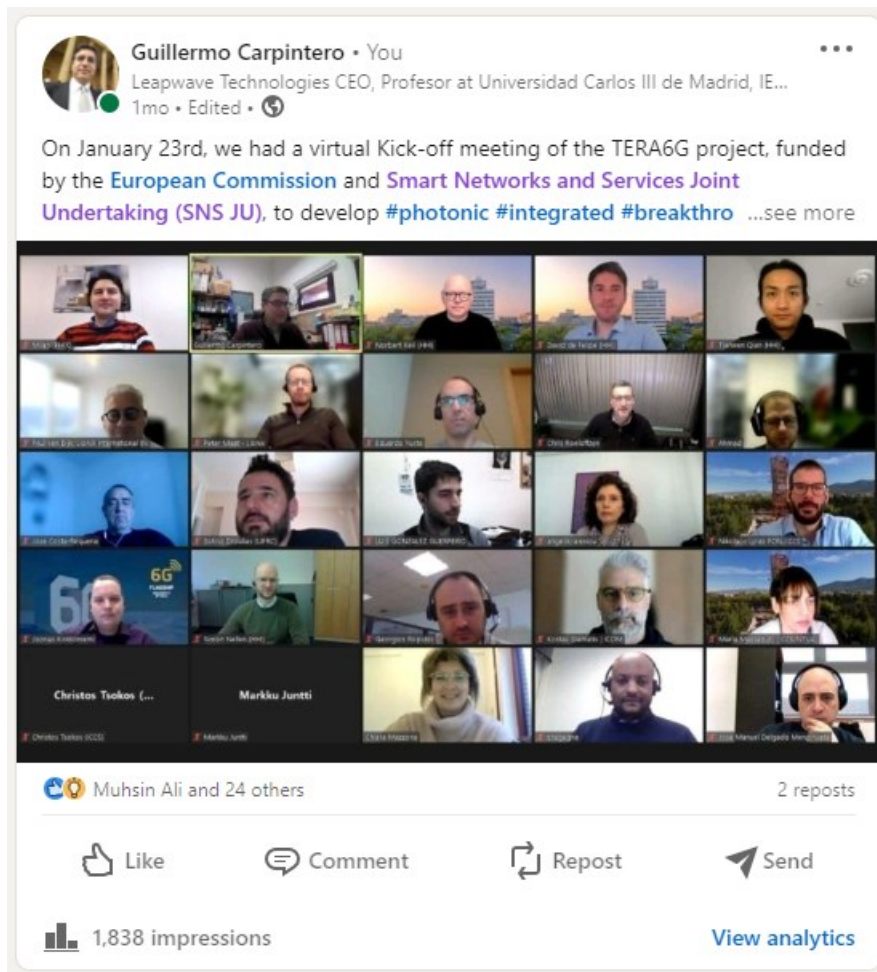


Figure 4. TERA6G project coordinator LinkedIn post of the project Kick-Off.

**Project profile of the researchers:** During the first months of the project, social media accounts for the project will be created, and disseminated through the professional social media profiles of involved researchers. We aim to create accounts in:

- **Instagram** (to disseminate images of the project advances, as well as live broadcasts). **Figure 5** shows the Instagram page of the project.

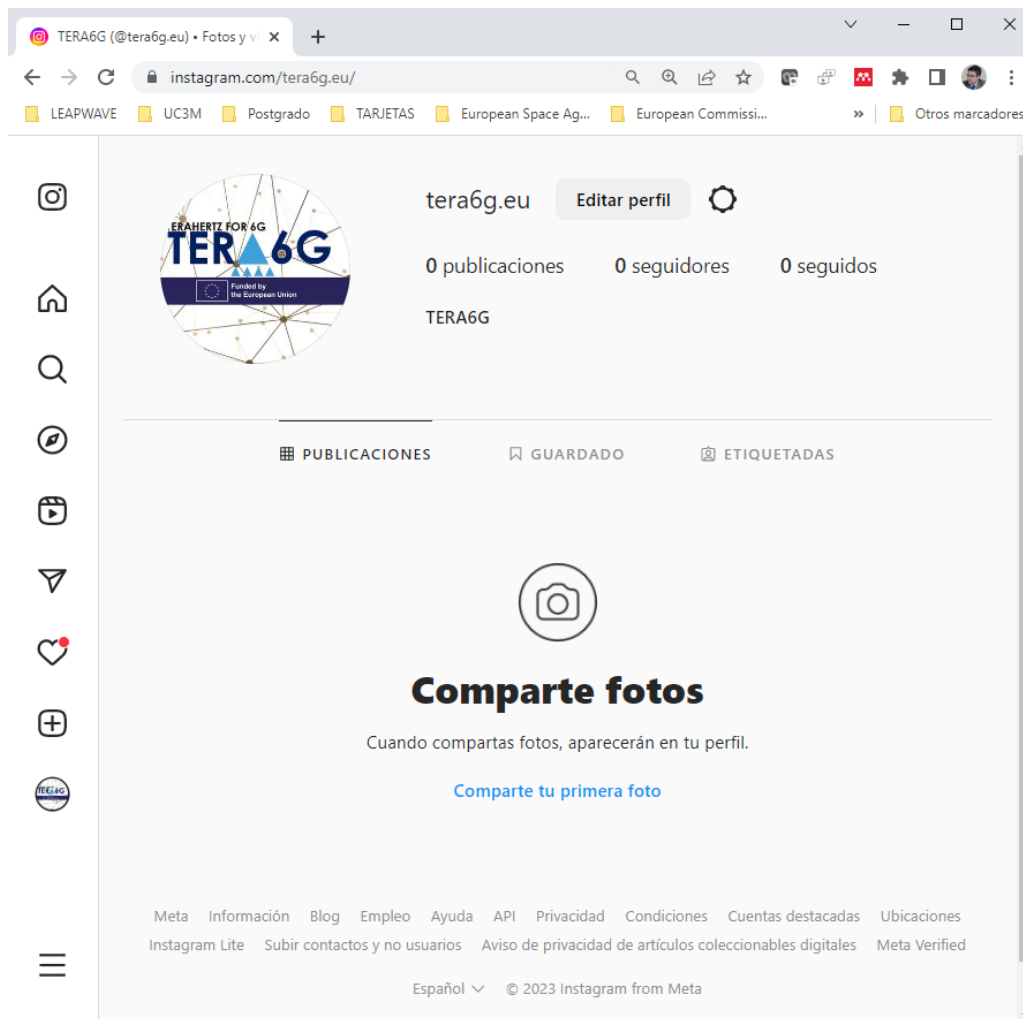


Figure 5. TERA6G project Instagram account.

- **LinkedIn** (to post the news in the website): in progress.

**Effectiveness index:**

**(Instagram)** Number of likes to the publications

**(LinkedIn)** Number of impressions on the news

### 3. Other communication channels

#### 2.1 Partners institutional communication tools and channels

Different partners have institutional communication units, which are being contacted to contribute in the project dissemination.

The contact detail of the coordinator unit is:

<p>UC3M Communication contact</p>	<p>Fco. Javier Alonso Flores Head of the Scientific Information Office (UCC+i) of the Vice-president for Communication and Culture Head of the Media Area of the Institutional Communication Service. Universidad Carlos III of Madrid (UC3M) Telephone: +34 91 624 90 35 / 639 906 177 E-mail: <a href="mailto:fcojavier.alonso@uc3m.es">fcojavier.alonso@uc3m.es</a> Twitter: @ciencia_uc3m</p>
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The preparation of the official news is in preparation.

Also, project partners have already included the project in their websites.

Figure 6. TERA6G project included in consortium partners websites.

## 2.2 6G SNS dissemination

The European [Smart Network and Services Joint Undertaking](#) (SNS JU) is a Public-Private Partnership that aims to facilitate and develop industrial leadership in Europe in 5G and 6G networks and services. In January 2023 (SNS JU) launched the first phase of its 6G projects, which are critical in establishing a solid research and innovation (R&I) foundation for Europe, defining the next generation networks by engaging a critical mass of European stakeholders and facilitating international cooperation on various 6G initiatives.

TERA6G is benefiting from the dissemination efforts of the SNS-JU office and the 6G-IA office and are participating in the dissemination activities they organize. To date, we have contributed to:

- **LUNCHTIME WEBINARS TO INTRODUCE THE NEW SNS PROJECTS:** This is a series of 4 lunchtime webinars to introduce the SNS JU Phase 1 projects, where we get a chance to introduce to the world TERA6G project focus, main objectives, activities and goals and to provide additional useful information and insights (e.g., project social media channels, websites, etc.).

TERA6G participates in the fourth of the series (See the program here: <https://smart-networks.europa.eu/event/sns-lunchtime-webinar-4-introducing-the-sns-projects-part-4-of-4/>)

Contact points: [kostas.trichias@6g-ia.eu](mailto:kostas.trichias@6g-ia.eu)

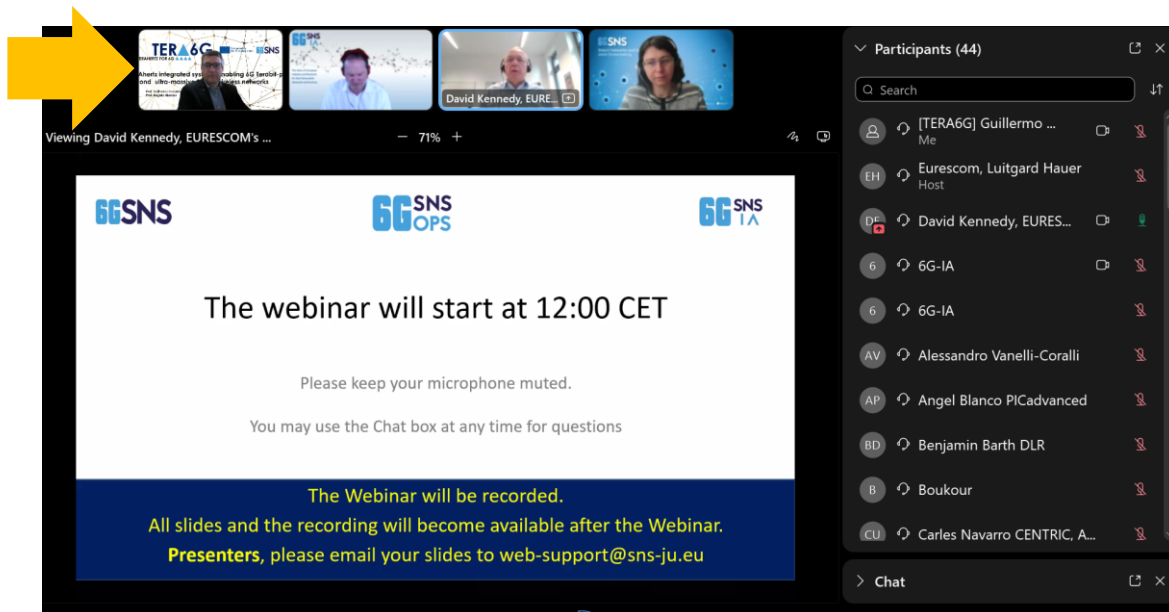


Figure 7. TERA6G project in 6G SNS lunchtime webinar.

- **SNS OPS PROJECT Annual Journal:** The SNS OPS project (<https://smart-networks.europa.eu/>) supports the Smart Networks Services Joint Undertaking (SNS JU) operations to facilitate the activities of the European SNS Initiative, as outlined in the SNS contractual EU Partnership. This includes:
  - Support for the European Partnership for SNS and the related organisation through cross-SNS projects coordination.
  - Organisation of the SNS as a coherent programme with clear links to the 6G Infrastructure Association and the EC via the partnership board and the JU Office and their strategic policies.
  - Maximised output and exploitation of SNS projects results in key domains (e.g., standardisation, spectrum) through managed cooperation between projects on horizontal issues.
  - Inter-JU coordination and joint actions.

SNS OPS also orchestrates and organises strategic activities to capture and promote the European view on 6G, the achievements of the 6G SNS and will start the process of monitoring the development and impact of these results on the evolution of 6G in Europe over the period of life of the 6G SNS initiative.

TERA6G has participated to SNS OPS project providing inputs for the first edition of its European 6G Annual Journal by June 2023. This 6G Annual Journal by SNS OPS represents a significant opportunity to present the project, providing between 1 and 2 pages with:

- Please add your logo, website address.
- Figures can be included but should be in a high-quality format and should be kept as simple as possible (to facilitate edition and publication).
- There is no need to describe the consortium.
- Your contribution should include the following:
  - Goals and objectives of the project
  - Project description including details on what you intend to achieve, how...what demos and trials intended and/or planned, steps, technologies involved

**Contact points:** [c.manero@idate.fr](mailto:c.manero@idate.fr), [e.bwson@idate.fr](mailto:e.bwson@idate.fr)

**Effectiveness index:** Number of attendants to the webinars, and email contacts from the attendants

### 2.3 Journals

In this section we have identified the journals in which different partners publish regularly.

Journal
IEEE/OSA Journal of Lightwave Technology
IEEE Photonics Technology Letters
IEEE Trans. On Terahertz Science and Technology

**Effectiveness index:** Number of cites.

### 2.2 Conferences

In this section we have identified the conferences to which different partners attend regularly, which can serve to disseminate the results or used to organize consortium meetings reducing the amount of travel.

Conference	Location	Time period
Mobile World Conference (MWC)	Barcelona (Spain)	February
IEEE/OSA Optical Fiber Communications	San Diego (USA)	March
European Conference on Antenna and Propagation (EUCAP)	Itinerant in Europe	March
European Conference on Integrated Optics	Itinerant in Europe	April
Joint EuCNC & 6G Summit	Itinerant in Europe	June
IEEE Microwave Week	Itinerant in USA	June
IEEE International Symposium on Industrial Electronics (ISIE)	Itinerant in Europe	June
International Conference on Infrared, Millimeter and Terahertz Waves (IRMMW-THz)	Alternates in Europe, America, Asia	September
European Conference on Optical Communication (ECOC)	Itinerant in Europe	October

**Effectiveness index:** Number of new contacts realized (though number of business cards collected)



## 4. Conclusions

This document collects the different means through which the project start has been announced, establishing the dissemination channels that will be used by the consortium.

It will be updated as additional channels are identified and exploited.

We have currently defined effectiveness indices to guide on the importance of the dissemination channels that we use, to evaluate their effectiveness. We aim to report on these indicators periodically.

## **Annex I. TERA6G website News communication template**

**News have to be sent to the project coordinator, in a word file, with high quality images inserted on it.**

The word file will contain two sections, providing the following information:

### **1. News short entry for the announcement**

<b>Insert image for the news announcement</b>	<b>One-line heading for the new to be displayed in the news entry</b> Event Date
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### **2. Main body of the new**

#### **One-line heading for the news announcement**

Event Date: xx-xx-xxxx

Insert Image accompanying the text of announcement
--

Text of announcement

Example of news for the Lunchtime webinar event

## 1. News short entry for the announcement



## 2. Main body of the new

**TERA6G participates in SNS Lunchtime Webinar 4 – Introducing the SNS projects**

Event Date: **6 March 2023**



Text of announcement

Want to know how [#Europe](#) is developing the [#technology](#) to be prepared for [#6G](#)?

Register for this [Smart Networks and Services Joint Undertaking \(SNS JU\)](#) lunchtime [#webinar](#) where I will be presenting [European Commission SNS JU #TERA6G](#), Terahertz for 6G which will take place on March 6th, from 12:00 to 15:15

Registration for the event at <https://smart-networks.europa.eu/event/sns-lunchtime-webinar-4-introducing-the-sns-projects-part-4-of-4/>

**Agenda**