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 <p><b>terapod</b></p> <p>Terahertz based Ultra High Bandwidth Wireless Access Networks</p>		Milestone: Final	
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<b>PU</b>	Public	X	
<b>CO</b>	Confidential, only for members of the consortium (including Commission Services)		

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<b>Final</b>	15-Nov-2018	Bruce Napier	Vivid	Final version for review Including communications section



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<h2>Executive summary</h2>
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The TERAPOD website was put online in October 2018 at [www.terapod-project.eu](http://www.terapod-project.eu)

The website includes pages on the consortium, background to the project, contact info and public documents. It has been kept updated throughout the project, and this will continue until the project end.

The site was constructed by Jason Buckley, Andrea Napier and Bruce Napier, all of Vivid Components, with technical input and material from the consortium.



# 1 Website overview

## 1.1 Website structure

The TERAPOD website was put online in October 2018 at [www.terapod-project.eu](http://www.terapod-project.eu)

The website includes pages on the consortium, background to the project, contact info and public documents. It has been kept updated throughout the project, and this will continue until the project end. All public deliverables and material will be posted on the site.

The website includes the following pages:

- Homepage Overview of the project objectives and background
- Consortium Listing the project partners
- Technology Summary of the technical objectives and context
- Results Library of all public outputs from the project
  - Separate pages for newsletters, journal papers and conference publications
- News Detailing news items on the project (with RSS feed)
- Links Hyperlinks to and info on related projects
  - Separate page added for the ICT-09-2017 Cluster
- Events List of relevant TERAPOD events, detailing partner participation
  - Separate page added for the EC THz Comms workshop 07-Mar-2019
- Contact Contact info.

## 1.2 Communication strategy

These pages will be maintained throughout the course of the project.

The purpose of the website is to raise awareness of project activities, act as a means of dissemination of TERAPOD results, and act as a method of promoting the exploitation of outputs from the work. This includes the following methods:

- The events page is updated regularly, and emphasises those events where TERAPOD will be presented. Past events are filed below the upcoming events, to act as a record of activity.
- Public deliverables which have been approved by the EC will be added to the site.
- Project results which may be made public are summarised, with links to scientific papers where appropriate
- An RSS feed is active, which alerts members to news on the project. This is linked to the Twitter feed to maximise impact.
- Newsletters are added regularly on the dedicated page (these are also sent to the Community by email).

## 2 Screenshots

A few screenshots are shown to illustrate the style and format of the site.

### 2.1 Homepage



The screenshot shows the homepage of the TERAPOD project website. At the top, there is a navigation menu with links for Home, Consortium, Technology, Results, Links, Events, News, and Contact. The main content area is divided into two columns. The left column features a 'Home' section with a welcome message, a project start date, and a video overview. The right column contains a 'Horizon 2020' section with funding information, a search bar, and a newsletter subscription form. Below the main content, there is a 'Project objective' section and a group photo of the consortium members.

**terapod**  
Terahertz based Ultra High Bandwidth Wireless Access Networks

Home Consortium Technology Results Links Events News Contact

### Home

TERAPOD is a Horizon 2020 project (761579) supported by the European Union.

The project started on 01-Sep-2017 and this website will be updated throughout with news and information on the project activities.

Second newsletter released Nov-2018!

The following video gives a short overview of the project.

**Terapod Project Overview Video**

Watch later Share

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Demonstrating high bandwidth wireless access in the Terahertz band

Partners: ICL, University of Glasgow, ACST, NPL, DELL'EMC, INESCIT, VLG, etc.

### Horizon 2020

This project has received funding from Horizon 2020, the European Union's Framework Programme for Research and Innovation, under grant agreement No. 761579

Search ..

### Subscribe for Terapod News Emails

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### Project objective

The saturation of wireless spectrum access is leading to innovations in areas such as spectrum resource usage. It is widely thought however that the low hanging fruits of innovation for wireless communication are all but exploited with only marginal gains possible. For a real step change towards the coveted 1 Tbps wireless transmission, new areas of the spectrum must be utilized. Recent breakthroughs in terahertz systems are overturning the "Terahertz gap" stigma associated with the previously difficult to access spectrum. With the emergence of viable THz communications systems on the horizon, it is crucial to develop a technology roadmap for THz communication for beyond the 5G timeframe.

The aim of TERAPOD is to investigate and demonstrate the feasibility of ultra high bandwidth wireless access networks operating in the Terahertz band. The project will focus on end to end demonstration of the THz wireless link within a Data Centre Proof of Concept deployment, while also investigating other use cases applicable to beyond 5G such as wireless personal area networks, wireless local area networks and high bandwidth broadcasting. The project seeks to bring THz communication a leap closer to industry uptake through leveraging recent advances in THz components, a thorough measurement and characterization study of components and devices, coupled with specification and validation of higher layer communication protocol specification.

In the meantime if you have questions on the project, please contact:  
Bruce Napier: [bruce@vividcomponents.co.uk](mailto:bruce@vividcomponents.co.uk)


The TERAPOD consortium at the kick-off meeting (WIT, Sep-2017)

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## 2.2 Events



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### Events

#### Upcoming events


**GLOBECOM**  
IEEE Global Communications Conference  
09-13 Dec-2018, Abu Dhabi, UAE  
Themed "Gateway to a Connected World" the conference will offer five full days of original paper presentations, tutorials, workshops, keynotes, demonstrations, industry sessions and social events designed to further career opportunities and the in-depth understanding of the latest communications advancements worldwide.




**EuMCE 2019**  
European Microwave Conference in Central Europe  
13-15 May-2019, Prague, Czech Republic  
The European Microwave Association (EuMA) is launching the European Microwave Conference in Central Europe, with associated Workshops and an Exhibition. EuMCE is a new series of events, modelled on European Microwave Week that will be held every two years, visiting the major cities of Central Europe. The aim of EuMCE is to better serve the microwave community in the Central Europe region and promote related microwave activities. Thanks to the associated Exhibition, which will attract companies not only from Central Europe but also from the rest of the world, the microwave industry will be an essential part of this new event, alongside academia and research centres.



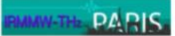
**IMS 2019**  
International Microwave Symposium  
02-07 Jun-2019, Boston, USA  
The International Microwave Symposium (IMS) is the centerpiece of the Microwave Week technical program, which includes the Radio Frequency Integrated Circuits Symposium (RFIC) and the Automatic Radio-Frequency Techniques Group Conference (ARFTG). With over 10,000 participants and 1000 industrial exhibits of state-of-the-art microwave products, IMS Microwave Week is the world's largest gathering of Radio Frequency (RF) and microwave professionals and the most important forum for the latest research advances and practices in the field.



**EUCNC 2019**  
European Conference on Networks and Communications  
18-21 Jun-2019, Valencia, Spain  
EuCNC 2019 is the 28th edition of a successful series of a conference in the field of telecommunications, sponsored by the IEEE Communications Society and the European Association for Signal Processing, and supported by the European Commission. This conference is one of the most prominent communications and networking conferences in Europe, which efficiently brings together cutting-edge research and world-renown industries and businesses. EuCNC attracts more than 600 delegates each year and an exhibition space of more than 1500 sq m. The conference focuses on various aspects of 5G communications systems and networks, including cloud and virtualisation solutions, management technologies, and vertical application areas. It targets to bring together researchers from all over the world to present the latest research results, and it is one of the main venues for demonstrating the results of research projects, especially from successive European R&D programmes co-financed by the European Commission.



**IRMMW-THz 2019**  
44th International Conference on Infrared, Millimeter, and Terahertz Waves  
01-06 Sep-2019, Paris, France  
Since 2000, the IRMMW-THz conference series has alternated between Asia, Europe and America on a continuous three year cycle. In 2019, the conference returns to the European leg, and will be held in Paris, France, for the first time, from September 1 to 6, at the Maison de la Chimie Conference Center, Paris. Topics include: sources, detectors, and receivers; modeling and analysis techniques; mm and sub-mm-wave systems, radar and communications.




**EuMW 2019**  
European Microwave Week 2019  
29-Sep to 04-Oct-2019, Paris, France  
European Microwave Week 2019 is a six day event, including three conferences and a trade and technology exhibition featuring leading players from across the globe. EuMW 2019 provides access to the very latest products, research and initiatives in the microwave sector. It also offers the opportunity for face-to-face interaction with those driving the future of microwave technology. The 22nd European Microwave Week combines, in addition, Exhibitor Workshops and Seminars will be provided by several top organisations with superior expertise in Microwave, RF, Wireless or Radar.




#### Past events


**POP2-2018**  
2nd International Conference on Photonics and Opto Packaging  
23-Oct-2018, Paignton, UK  
This conference relates to those involved with the design of systems and development of components as well as end users and will address issues of placement of die and components, die and component packaging for emerging optoelectronic technology applications. Interconnection technologies will be a key feature of the presentations and the event will offer the opportunity to learn about emerging photonics and opto-technology, process tools and flows, materials and equipment selection/options as well as design/industrialisation aspects.  
*Bay Photonics will present at this event on some of the challenges in TERAPOD.*




**TWEETHER final workshop**  
28-Sep-2018, Valencia, Spain  
The objective of the TWEETHER project is to set a milestone in mm-wave technology by the realization of the first W-band (92-95 GHz) point to multi-point (PmP) wireless system for distribution of high capacity everywhere. The field trial of the TWEETHER system will demonstrate the state-of-the-art performance of the PmP at W-band by one transmission hub linked to three terminals allocated at different distances. The field trial will be performed in the campus of the Universidad Politecnica de Valencia.



**ECOC 2018**



## 2.3 Consortium














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### Consortium

 Waterford Institute of Technology	<b>Coordinator</b> Waterford Institute of Technology Ireland
 UCL	University College London United Kingdom
 University of Glasgow	University Of Glasgow United Kingdom
 Technische Universität Braunschweig	Technische Universität Braunschweig Germany
 NPL National Physical Laboratory	NPL Management United Kingdom
 DELL EMC	EMC Information Systems International Ireland
 Vivid Components	Vivid Components Germany
 INESC TEC	INESC TEC Portugal
 ACST Technology Solutions For Terahertz Electronics	ACST Germany
 VLC PHOTONICS	VLC Photonics Spain
 bay photonics	Bay Photonics United Kingdom <a href="#">Company profile</a>

