

MULTIPLY 6G

New European Consortium Launches MULTIPLY-6G to Cut Energy Demands in Next-Generation Wireless Networks

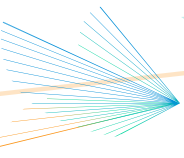


A 14-partner consortium spanning global telecom operators, technology developers, industrial manufacturers, and research institutions gathered at Trinity College Dublin on the 24 and 25 June to officially launch MULTIPLY-6G. The three-year Horizon Europe initiative aims to address one of telecommunications' most pressing challenges: the sharp surge in energy and hardware demands accompanying future wireless networks.

Hosted by project coordinator Trinity College Dublin, the kick-off meeting established the technical roadmap and working relationships across the seven European nations represented. Over two days of sessions, the consortium aligned on the core architecture and work packages designed to bring physical-layer radio breakthroughs out of the lab and into real-world networks.

Initial discussions focused on baseline alignment and backward compatibility, specifically how to deploy advanced multi-dimensional waveforms on top of legacy frameworks without disrupting standard protocols. The team also set out the criteria for defining realistic 6G use cases and established a phased approach to channel modelling.





MULTIPLY 6G

The summit featured a keynote address from the assigned Project Officer representing the Smart Networks and Services Joint Undertaking (SNS JU) under the European Commission. The address mapped MULTIPLY-6G's strategic role within Europe's broader technological sovereignty and strategic autonomy goals.

Technical streams detailed upcoming work on multi-dimensional MAC layers, AI-driven resource management, and early planning for hardware-in-the-loop testbed validation. To ensure rapid progress, the consortium agreed to immediate technical launches across work packages and a regular cadence of cross-collaboration.

Looking ahead, the consortium established a shared impact strategy aimed at submitting at least 25 technical contributions directly to international standardisation bodies, including 3GPP and ETSI. Over the next three years, the partners will focus on translating complex wireless physics into tangible, energy-efficient network performance.

About MULTIPLY-6G

MULTIPLY-6G is a pan-European research and innovation action funded under the European Union's Horizon Europe programme. The project brings together 14 partners across industry and academia to co-design multi-dimensional waveforms, near-field channel estimation, and extra-large MIMO systems within an Open RAN framework, aiming to deliver a step-change improvement in network energy performance.

The consortium is composed of the following 14 partners: Trinity College Dublin, Istanbul Medipol Universitesi, Technische Universität Berlin, Amerikaniko Kollegio Ellados – Kentro Erevnas, Kungliga Tekniska Hogskolan, Universidad Carlos III de Madrid, Aalborg Universitet, The Queen's University of Belfast, Vodafone Intelligent Solutions España S.L., Massive Beams GmbH, InterDigital Europe Ltd, Software Radio Systems Limited, F6S, and Ericsson AB.

Follow **MULTIPLY-6G's LinkedIn** for more updates.



Contact:

into@multiply-6g.eu



MULTIDIMENSIONAL WAVE AND SPACE-LEVEL
OPTIMIZATION FOR ENERGY EFFICIENT
COMMUNICATIONS AND SENSING

 **Funded by
the European Union**

Funded by the European Union under the Grant Agreement No 101293106. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or Smart Networks and Services Joint Undertaking. Neither the European Union nor the granting authority can be held responsible for them.