

Press Release: Enable-6G Project Launched to unlock the potential of Future 6G Networks.

Madrid, Spain -

The IMDEA Networks Institute, in collaboration with Telefónica, NEC Corporation and BluSpecs, is proud to announce the launch of the ENABLE-6G project. This ambitious initiative aims to address the challenges that will be faced by future 6G networks, such as increased connectivity, higher performance demands, and advanced object and environment detection and communication. This project is funded by the European Union-NextGenerationEU and the Ministry of Economic Affairs and Digital Transformation, in the framework of the Recovery, Transformation and Resilience Plan (PRTR).

As 5G technology continues to be the driving force behind edge computing and autonomous vehicles, researchers and industry experts are already looking towards the future and the development of 6G technology. With challenges in capacity, energy efficiency, latency, and data security and privacy, the development of the ENABLE-6G project has become crucial. It's necessary for 6G networks to become more adaptable and intelligent to enable the realization of a future vision that will contend with greater levels of complexity, contextualization, and data traffic while consuming less energy and offering stronger security and privacy measures. Such advancements are crucial to instil the necessary level of trust required for widespread implementation of next-generation devices and nodes.

One of the main objectives is to ensure advanced privacy protections are built into the architecture, as precise mapping and sensing, data privacy and security have become major concerns, and has also become a major benefit for new use cases. Another strategic objective is the design and implementation of software-defined networks that can operationalise optimized edge-to-cloud processing to facilitate time-critical and geo-distributed network orchestration (e.g., via the application of control-task algorithms). The ENABLE-6G project represents a major step forward in the new technologies into 6G to improve wireless communications, provide environmental sensing and significantly reduce the energy footprint per device to avoid a large overall increase in network power consumption. We are excited about the potential impact of this project and look forward to collaborating with our partners to bring it to fruition.

Telefónica is one of the leading private R&D centers in Spain, aiming to explore and develop new technologies and solutions that can improve the company's existing products and services, as well as identify and create new business opportunities in the telecommunications and technology sectors. One of the big companies joining this project is NEC Corporation, with a great capacity has a strong commitment to research and development and invests heavily in new technologies and innovative solutions. ENABLE-6G counts on the excellent IMDEA Networks scientists, one of the best innovation and development centres in Spain, with a variety of experts from all over the world. Finally, this project will count on the consultancy of BluSpecs, facilitating the digital transformation of private and public organisations through the application of knowledge, data, and methodologies in the field of strategy, implementation of new technologies and innovation.

For more information about the ENABLE-6G project, please go to:

www.enable6g.eu

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