



Boosting Smart Education and Research through 5G Technology: 5G-BECOME Project Launch

Athens, Greece

27/02/2025

The **5G-BECOME** project officially launched on Wednesday, February 26, 2025, at the premises of the National Technical University of Athens in the Zografou NTUA Campus. **5G-BECOME** is an innovative project, funded by [the European Union's Digital Europe Programme \(Project number: 101181225\)](#), which aims to bring the future of smart education and research to **the National Technical University of Athens (NTUA)**. Over the next 3 years, the project will deploy a private 5G network and an edge computing infrastructure, in order to create a technological learning and research program for a more dynamic, interactive and practical environment for students and teachers.

The project will be implemented by [the National Technical University of Athens \(NTUA\)](#) with the participation of the [isense research group](#), and [OTE Group](#), the largest telecommunications provider in Greece, in collaboration with the Italian company [FifthIngenium](#).

Transforming Education & Research through 5G

The project focuses on two main applications:

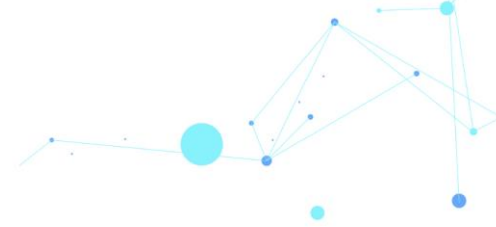
- XR Hybrid Learning Platform

An Extended Reality (XR) platform, which integrates Augmented (AR) and Virtual Reality (VR). Adapted to the NTUA curriculum, this platform aims to enhance student engagement through interactive learning. **The Italian company FifthIngenium will lead this initiative**, ensuring the adaptation of the Mixed Reality (XR) system to the NTUA curricula.

- **Automotive Open Platform & Digital Twins Environment**

NTUA will provide advanced digital infrastructure to support cutting-edge research and innovation in the automotive sector, particularly in Connected, Cooperative, and Automated Mobility (CCAM) applications. This initiative integrates Digital Twins (DTs) to simulate real vehicles and transportation systems. Students and researchers will have access to a 5G experimentation platform, allowing them to participate in collaborative projects, practical group activities and real-world testing scenarios. Within a 5G-based ecosystem, students will develop relevant skills, expand their expertise and contribute to technological progress related to mobility. As part of 5G-BECOME, this initiative fosters interdisciplinary collaboration, positioning NTUA at the forefront of automotive innovation and beyond.

OTE Group is going to install a private 5G network on the premises of the National Technical University of Athens (NTUA), in the Zografou NTUA Campus, while ensuring sustainability and the integration of emerging technologies also after the end of the project.



What is the purpose:

✓ **More Engaging & Interactive Learning** – Improved understanding and assimilation of knowledge through XR.

✓ **Practical Training with Real Applications** – Students gain immediate access to 5G and automotive technologies.

✓ **Leveraging new tools for the development of Innovation** – Using open tools and experimental 5G platforms for groundbreaking research.

✓ **Creating a Connected Academic Ecosystem** – A bridge between university, research and industry.

A vision for the future:

[Dr. Angelos Amditis](#), Scientific Director of the NTUA isense research group, states:

"I am proud to announce the launch of the 5G-BECOME project—a visionary initiative that embodies NTUA's unwavering commitment to innovation and excellence. By seamlessly integrating state-of-the-art 5G, XR, and digital twin technologies in the NTUA's educational roadmap, we are not only creating immersive, dynamic learning experiences for our students but also empowering them to tackle real-world challenges with confidence and achieve outstanding mastery in their fields."

Stay Tuned

Follow 5G-BECOME announcements on our website:

www.5g-become.eu

LinkedIn: 5G-BECOME

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