5G BECOME

5g enaBled Edge Computing fOr sMart Education

Boosting Smart Education and Research through 5G Technology

Funded by the European Union



What is 5G-BECOME?

5G-BECOME is funded by the European Union under the Connecting Europe Facility (CEF) - Digital programme (Topic: CEF-DIG-2023-5GSMARTCOM-EDGE-WORKS) project.

The project aims to show how next-generation connectivity can support more immersive, interactive and connected experiences, particularly in education.

At its core, the project demonstrates how a cutting-edge 5G Standalone Network (SA) and edge computing infrastructure deployed across both indoor and outdoor areas of the National Technical University of Athens (NTUA), can support demanding applications such as XR-assisted lectures and advanced automotive use cases. It leverages key network technologies, including network slicing and programmability features enabled through Network Exposure Functions (NEF).

XR Hybrid Learning Platform

A 5G-enabled, immersive, and collaborative educational environment at NTUA that integrates Extended Reality (XR) technology into the university's diverse curricula, enhancing experiential learning through interactive experiences for students, educators, and researchers.

Automotive Open Platform & Digital Twins Environment:

An advanced digital platform enabled by5G and edge computing with local breakout, leveraging network exposure and DigitalTwin technologies to support cutting-edge research and innovation in the automotive sectorand Connected, Cooperative, and Automated Mobility (CCAM) applications.

Goals

Enhancing Student Engagement

Creating interactive and immersive learning environments fully aligned with NTUA's curriculum.

Hands-on 5G Training & Advanced Technologies

Providing students with practical experience in 5G networks, CCAM applications, and digital infrastructure.

Driving Innovation with Open-Source Tools

Promoting collaborative research and innovation using state-of-the-art open-source technologies.

Creating a Connected Digital Ecosystem

Expanding access to next-generation educational resources, bridging academia, research, and industry.



Discover more about the project

Project Partners

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