

5GENIUS Project

Transforming Connectivity at HoGent

Enabling education, research and business
through 5G

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5GENIUS

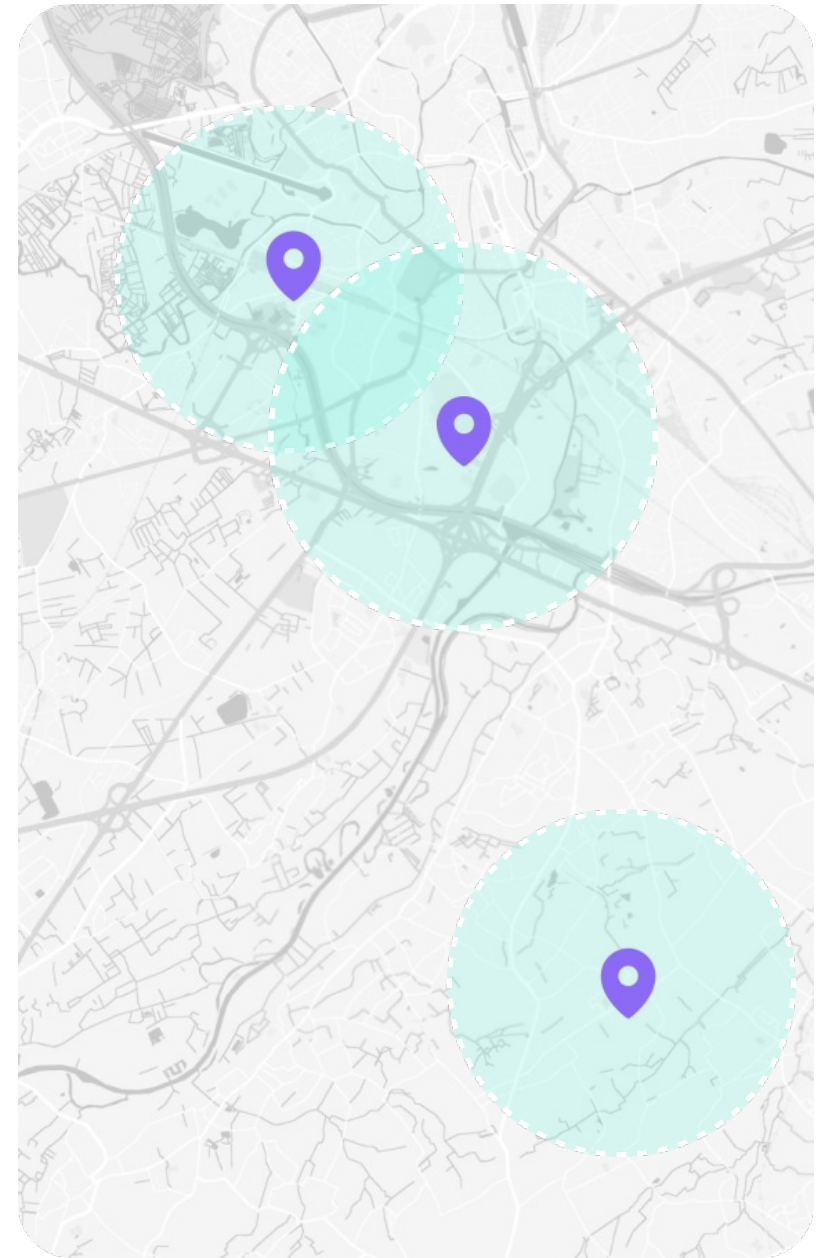
CITYMESH

HO
GENT

Funded by
the European Union



The **5GENIUS** project aims to create a high-speed, low-latency 5G network to support research, education, and innovation at **HoGent**.





**This project empowers
students to **innovate
digitally**, impacting
organizations, society,
and driving a
sustainable future for
people and the planet.**

How **5G** enhances the operational efficiency of a smart campus



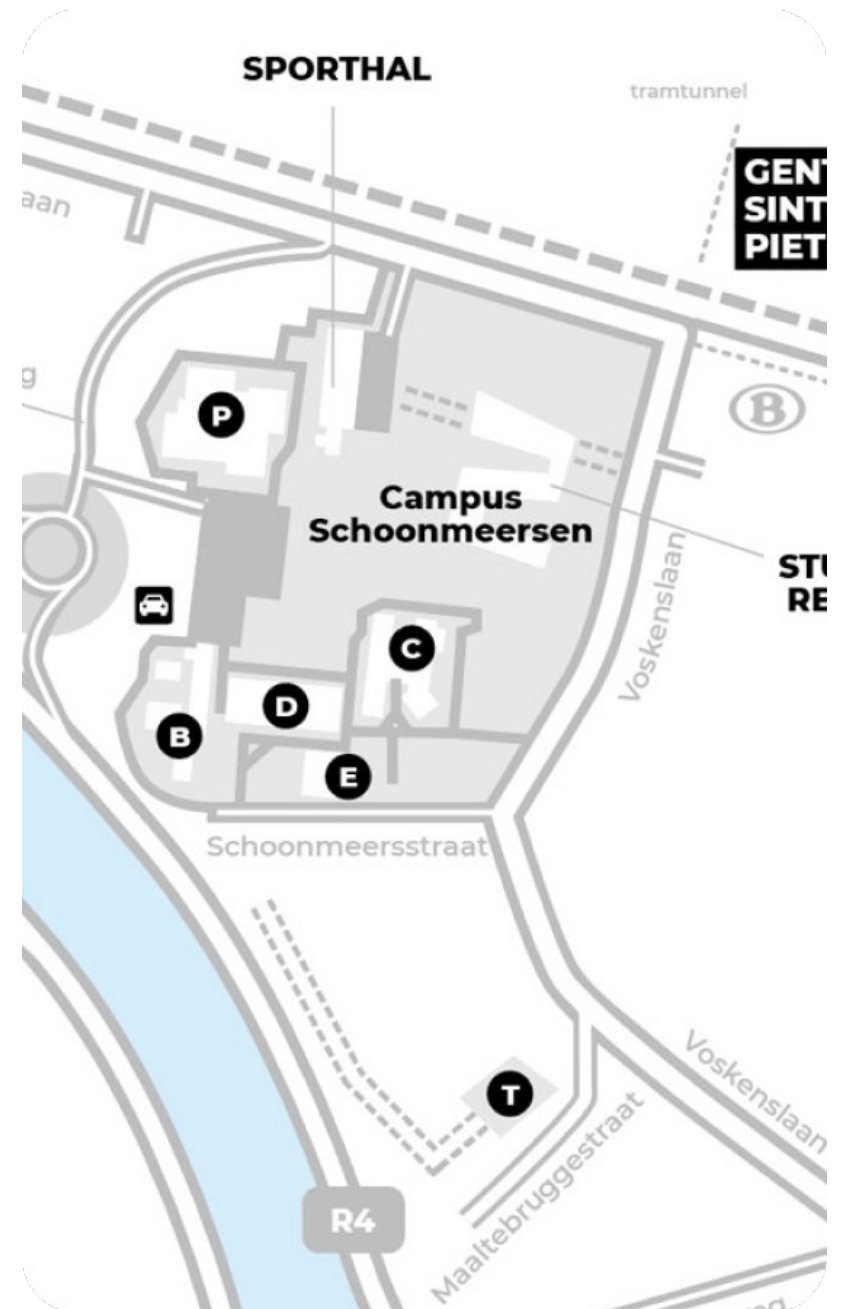
Real-time monitoring of energy use



Waste management optimization



Student movement analysis to manage overcrowding





The role of **5G** in enhancing agriculture and industrial applications



Smart farming with real-time sensor data for crop management



Autonomous vehicles and drones for efficient campus management

Leveraging **5G** for advanced healthcare research



Real-time data transmission for health monitoring



eHealth applications for hospital environments and emergencies





Revolutionizing learning experiences through immersive technology



5G enables real-time VR simulations for healthcare training



Applications in remote learning and interactive experiences

5G facilitates massive data collection and analysis



Faster data transmission for research projects



Applications in fields like sustainability and precision agriculture



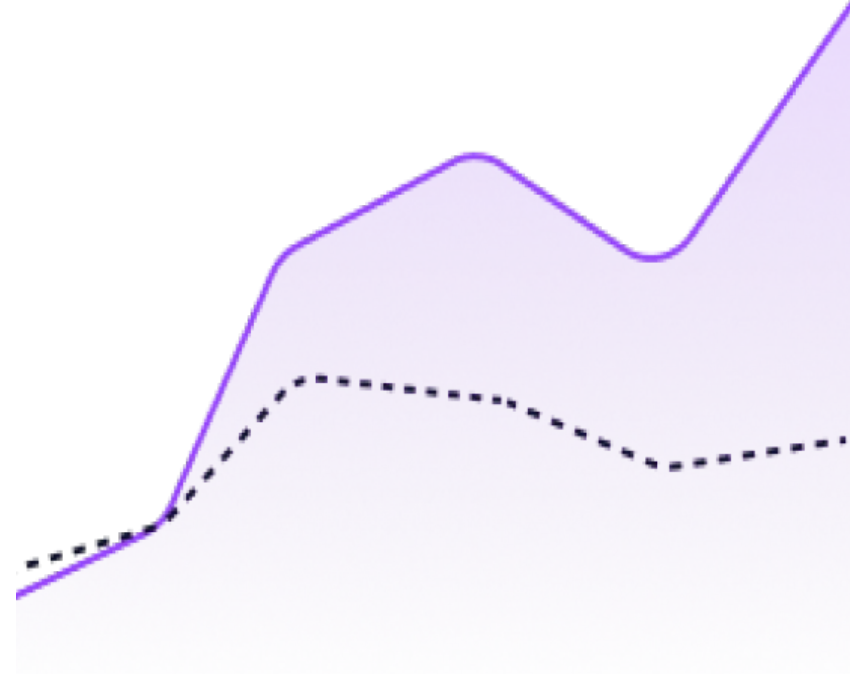
The transformative impact of 5G on research, education, and operations



Focus on critical communication



Enhanced learning opportunities





5GENIUS is a strategic investment for education, innovation, and societal impact

Summary of the key benefits: innovation, research, student engagement, and industry collaboration



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