TUKE 5G Smart Communities

5G Private network for industrial use cases









Slovakia You Know...

Mountains and Nature: "The Tatras and Wilderness"



Slovakia You Know...

Culture and Folklore: "Folklore & Traditions"



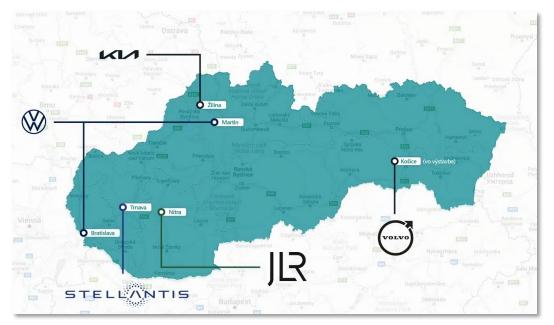
Slovakia You Know...

Historic Cities: "Charming Historic Cities"



Slovakia You Don't Know

Automotive Powerhouse





- #1 in Cars per Capita:
- 44% of Exports:
- Global Brands:
- Expanding Supplier Ecosystem:
- Electromobility Opportunities:

182 cars per 1,000 people

Automotive-driven economy

VW, Kia, Stellantis, Jaguar Land Rover

High-tech parts & materials

EV production, battery factories, R&D projects

Slovakia You Don't Know

Pioneers in Technology

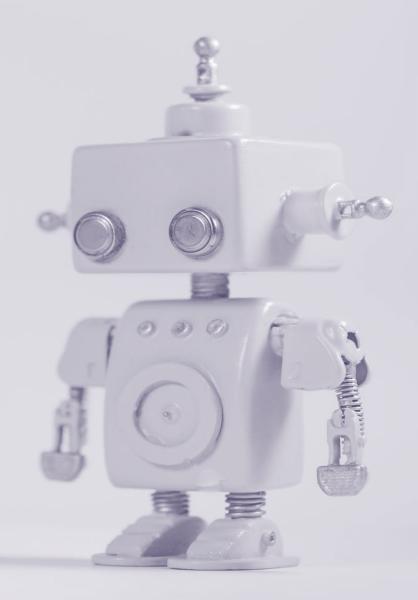






our project - TUKE 5G Smart Communities





Technical university in Košice - You Don't Know...













Our Project Overview (TUKE 5G Smart Communities)

Empowering Education, Industry, and Sustainability through 5G Technology

Project Key Points & Goals:

- Deploy a 5G private network on a Slovak university campus to advance teaching and research.
- Use Cases:
 - Logistics Optimization: Testing efficient processes to enhance productivity.
 - Smart Energy Metering: Real-time energy management for sustainable usage.
- Impact:
 - Blueprinting for replication across Europe, boosting innovation and resource efficiency.

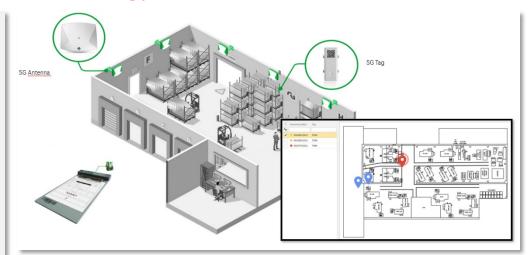
Consortium Partners:

- Slovak Telekom (Coordinator): Driving the network deployment and project oversight.
- TUKE: Providing campus and research support.
- SOVA Digital: Technical partner focusing on digital and industry solutions











TUKE 5G Campus: Unmatched Performance & Reach

Delivering high-speed, reliable 5G connectivity to support thousands of students, faculty, and smart campus innovations.

Key Metrics:

- Slovakia's 1st CEF 5G University Project
- 2 Campuses | 9 Buildings | 25 Access Points
- Ultra-Low Latency: <10 ms | Reliability: 99.9%
- High-Speed Connectivity: Up to 1,000 Mbps
- Massive Scale: Supports up to 1 million devices/km²

Who Benefits?

- **11,200 Students** (4,000 international) & 765 Faculty
- Use Cases with Industry Input: Smart Logistics & Smart
 Metering built for future commercial applications
- Major Departments Involved:
 - ✓ Electrical Engineering
 - ✓ Mechanical Engineering
 - ✓ UVP Technicom

Fun Fact: Handles user speeds up to 500 km/h!



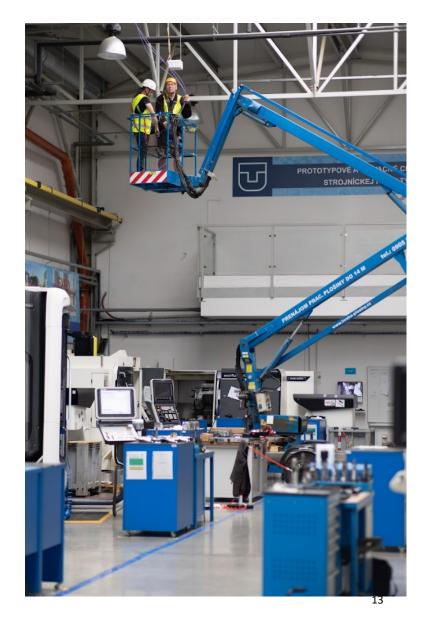




Deployment time – May 2024







Thank you for your atention!



