

## TELECOMMUNICATIONS TESTING AND SIMULATION SERVICES

This competency provides advanced capabilities for the analysis, testing, and simulation of telecommunication networks and communication systems. Building on the expertise and infrastructure of the National Media and Infocommunications Authority (NMHH) Telecommunications Laboratory operating at Óbuda University, it enables evaluation of network devices, protocols, and architectures under real and simulated conditions. The activity supports research, regulatory validation, and industrial development by improving network reliability, interoperability, and performance. It contributes to RDI by bridging academic research with practical testing needs in modern electronic communications.



### ACHIEVEMENTS

- Long-term collaboration with the National Media and Infocommunications Authority (NMHH) in telecommunication network validation and protocol testing
- Successful testing and technical evaluation of communication devices for regulatory and industrial stakeholders
- Contribution to national telecommunications education and applied RDI activities through laboratory-based research and testing services



### INFRASTRUCTURE

- Telecommunications testing laboratory operated in cooperation with NMHH
- Protocol analysis and network performance testing equipment
- Spectrum analysers and IP traffic monitoring and sniffing systems
- Network simulation and emulation platforms supporting real-environment and scenario-based testing



### REFERENCES

- Annual joint RDI and educational projects conducted with the National Media and Infocommunications Authority (NMHH), focusing on telecommunication network simulation, performance analysis, and protocol validation