



VDT Technology participates in Bavarian-Czech research project "Traffic Talk"

Prague, 18 July 2023 - VDT Technology, together with academic partners at the Faculty of Transportation of the Czech Technical University in Prague and the Technical University of Ingolstadt (THI) in Bavaria, has joined the project "Traffic Talk" - 5G Applications in V2X Sensor Networks within the 5G Corridor Munich-Prague initiative, which aims to develop and test 5G technologies.

"Traffic Talk" is a collaborative cross-border research project focusing on the use of 5G in traffic sensor networks for vehicle-to-infrastructure (V2X-Vehicle-to-Everything) communication. The project has received financial support under the eighth TREND call from the Ministry of Industry and Trade of the Czech Republic. The TREND programme has provided approximately €555,000 to support the project, which has a total budget of approximately €800,000.

The aim of the project is to implement a system that will enable the commercial deployment of technologies for cooperative driving and autonomous operation in transport. The project aims to achieve this goal earlier than would be possible using the ITS-G5 standard, even in areas with limited power supply. The new system takes advantage of the specific characteristics of 5G networks such as reliability, low power consumption and the ability of large numbers of Internet of Things (IoT) sensors to communicate with each other.

The "Traffic Talk" system consists of sensor points outside the network, a server infrastructure for data processing using artificial intelligence algorithms, and a database of mobile applications that display relevant information to drivers. The First Mile Ingolstadt test field for automated vehicles near Ingolstadt in Bavaria will be used to test the system. An automated vehicle from the Technical University of Ingolstadt (THI) will be used as part of the testing.

Lubomir Šembera, Director of Telematics at VDT Technology, comments: "With mobile communications systems set to play a key role in the future transport ecosystem, multi-functional 5G networks provide, enable and support a wide range of digital services in and around vehicles, including services related to safety, transport efficiency and more. Connected vehicles across all modes of transport will gain access to critical real-time information, helping to improve road safety, reduce carbon footprint, and provide a wide range of digital services for drivers and passengers."

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