

Press release

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Road system innovation project concluded successfully

New perspectives in the development and testing of autonomous transportation

- Central system to support the testing and operation of automated vehicles
- The joint research was carried out in consortium cooperation
- The 20-year-old Engineering Center Budapest plays an important role in the development of automated and electric mobility.

During the development of autonomous vehicles, experts face a number of challenges related to traffic safety and the reliability of the systems responsible for sensing the vehicle's environment. The project titled "Central system for supporting the testing and operation of automated vehicles" sought solutions for these. The „Central System” R&D project was focusing on realizing a transport system using the highest-level state of the art technology, to develop and demonstrate a holistic solution to support and operate autonomous vehicles, especially their environment perception and control in cooperation with infrastructure elements. During their collaboration, the researchers developed functions that show serious development potential for both vehicle system developers and infrastructure operators. One example of these provides a solution for avoiding typical accident-prone situations occurring on motorways by utilizing infrastructure data within the vehicle. A proposal was also developed to provide alerts to infrastructure operators about critical traffic situations by monitoring vehicle dynamic characteristics. As part of the project, participants also conducted a cybersecurity assessment, in which they determined what security requirements an intelligent transportation system must meet.

In the 2020-1.2.3-EUREKA-2021-00001 project Bosch developers were in close cooperation with Budapesti University of Technology and Economics as a

Robert Bosch Kft.
1103 Budapest,
Gyömrői út 104.
www.bosch.hu/en

Press information:
Mónika Hack
PR Manager
Bosch Group in Hungary

E-mail: monika.hack3@hu.bosch.com
Phone: +36 70 510 5516
www.boschmediaservice.hu/en

consortium leader and with other members of the consortium, such as Bimfra Kft., Budapest Közút Zrt., Magyar Közút Nonprofit Zrt., and Magyar Telekom Távközlési Nyrt. through the work between September 2021 and end of August 2025. In the project, Bosch was responsible for developing the requirements system, drone-based validation of the tested smart road, and integrating higher-level driver assistance functions into the central system.

Engineering Center Budapest was established in 2005 as part of Robert Bosch Kft., and with more than 3,000 development engineers, it is now the largest automotive development center in Europe – after Germany – within the Bosch Group. Engineering Center Budapest is an increasingly important location for Bosch's global development activities, plays an important role in the development of automated and electromobility and is one of the Bosch Group's most important research, development and test centers for automotive electronics.

More information:

Mónika Hack

+36 70 510 5516

Basic information:

Bosch has been present in Hungary since 1898 with its products. After its re-establishment as a regional trading company in 1991, Bosch has grown into one of Hungary's largest foreign industrial employers with currently nine subsidiaries. In fiscal 2024 it had total net sales of 2058 billion forints and consolidated sales to third parties on the Hungarian market of 313 billion forints. The Bosch Group in Hungary employs more than 17,400 associates (as of December 31, 2024). In addition to its manufacturing, commercial and development business, Bosch has a network of sales and service operations that covers the entire country.

The Bosch Group is a leading global supplier of technology and services. It employs roughly 418,000 associates worldwide (as of December 31, 2024). The company generated sales of 90.3 billion euros in 2024. Its operations are divided into four business sectors: Mobility, Industrial Technology, Consumer Goods, and Energy and Building Technology. With its business activities, the company aims to use technology to help shape universal trends such as automation, electrification, digitalization, connectivity, and an orientation to sustainability. In this context, Bosch's broad diversification across regions and industries strengthens its innovativeness and robustness. Bosch uses its proven expertise in sensor technology, software, and services to offer customers cross-domain solutions from a single source. It also applies its expertise in connectivity and artificial intelligence in order to develop and manufacture user-friendly, sustainable products. With technology that is "Invented for life," Bosch wants to help improve quality of life and conserve natural resources. The Bosch Group comprises Robert Bosch GmbH and its roughly 490 subsidiary and regional companies in over 60 countries. Including sales and service partners, Bosch's global manufacturing, engineering, and sales network covers nearly every country in the world. Bosch's innovative strength is key to the company's further development. At 136 locations across the globe, Bosch employs some 87,000 associates in research and development

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