

Press release



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Central system to support the testing and operation of automated vehicles

Consortium cooperation for road safety

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. In the 2020-1.2.3-EUREKA-2021-00001 project Bosch developers will strongly cooperate with Budapesti University of Technology and Economics as a 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.

The „Central System” project is 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. Within the framework of the project, the primary task is the development and implementation of a central system corresponding to the above, which is primarily used to support the validation of various tests and functions in close connection with the automated vehicles connected to the network. The aim of the consortium partners in long term is the cloud based support of operation and direction of mobility.

The planned total budget of 2020-2.1.1-ED-2020-00062 is 673,160,141 forints of which 495,538,602 forints is non-reimbursable grant. The project will be implemented with funding from the Hungarian National Research, Development and Innovation Fund.

Engineering Center Budapest was established in 2005 as part of Robert Bosch Kft., and with around 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

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of automated and electromobility and is one of the Bosch Group's most important research, development and test centers for automotive electronics.

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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 eight subsidiaries. In fiscal 2021 it had total net sales of 1,711 billion forints and consolidated sales to third parties on the Hungarian market of 273 billion forints. The Bosch Group in Hungary employs more than 17,000 associates (as of December 31, 2021). Figures of fiscal 2022 for the Bosch Group in Hungary will be available from May 25, 2023. 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 420,000 associates worldwide (as of December 31, 2022). According to preliminary figures, the company generated sales of 88.4 billion euros in 2022. Its operations are divided into four business sectors: Mobility Solutions, Industrial Technology, Consumer Goods, and Energy and Building Technology. As a leading IoT provider, Bosch offers innovative solutions for smart homes, Industry 4.0, and connected mobility. Bosch is pursuing a vision of mobility that is sustainable, safe, and exciting. It uses its expertise in sensor technology, software, and services, as well as its own IoT cloud, to offer its customers connected, cross-domain solutions from a single source. The Bosch Group's strategic objective is to facilitate connected living with products and solutions that either contain artificial intelligence (AI) or have been developed or manufactured with its help. Bosch improves quality of life worldwide with products and services that are innovative and spark enthusiasm. In short, Bosch creates technology that is "Invented for life." The Bosch Group comprises Robert Bosch GmbH and its roughly 440 subsidiary and regional companies in some 60 countries. Including sales and service partners, Bosch's global manufacturing, engineering, and sales network covers nearly every country in the world. With its more than 400 locations worldwide, the Bosch Group has been carbon neutral since the first quarter of 2020. The basis for the company's future growth is its innovative strength. At 128 locations across the globe, Bosch employs some 85,000 associates in research and development, of which more than 44,000 are software engineers.

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