

## **URBAN AUTOMATED DRIVING (AD)**

**Research platform for AD integrating V2V technology to be used on public roads in Europe**

Toyota is working to advance the development of mobility software that brings value to our customers and society including AD.

Toyota Motor Europe (TME) is part of the Hi-Drive project (July 2021-June 2025), which is funded by the European Commission and part of EU's Horizon 2020 programme. The Hi-Drive project aims to push AD further towards High Automation by addressing a number of key challenges that are hindering the progress of AD development. The project strives to extend and defragment the Operational Design Domains (ODD) by implementing selected technology enablers so that the driver needs to take over less often.

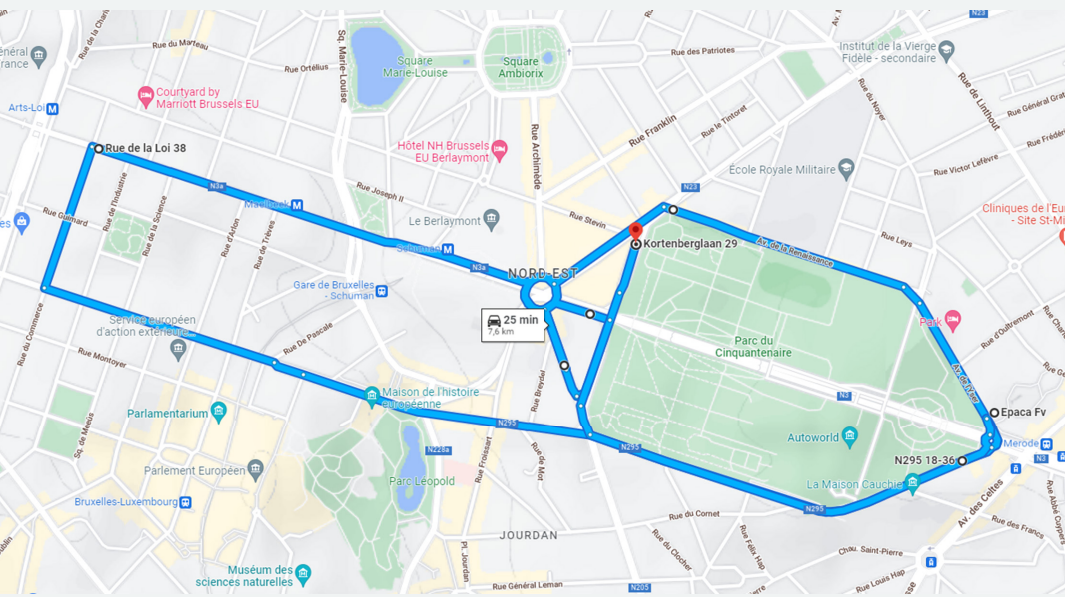
In this project, TME will adapt Toyota's AD research Platform 4 (P4) for European public roads and integrate vehicle-to-vehicle (V2V) technology, which will enable direct information exchange

between vehicles via dedicated short-range communication (DSRC) and/or via cellular networks. V2V communication can extend the vehicle's sight lines, relaying information that is beyond the vehicle or driver's perception range. The information obtained by V2V technology complements the data from on-board sensors, enabling the vehicle to better anticipate – and, thereby, navigate through – complex traffic patterns, road construction and other such unexpected, ephemeral changes in the roadscape.

## **Toyota's Automated Driving research platform**



### Pre-selected route in Brussels



For the Hi-Drive project we plan to drive the P4 in pre-selected parts of public roads in Brussels. The P4 has already safely operated on test tracks and on public roads in Japan and in the U.S.A. Ensuring safety even in a complex driving environment is always our first priority. This will be achieved by a safety driver and an operator who will always be present on board.

## CONTACT

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## PROJECT FACTS

Budget € 60 million | Funding € 30 million | Consortium 53 partners | Involvement 13 countries | Timeline July 2021 – June 2025 | Project coordinator Aria Etemad, Volkswagen Group Innovation, aria.etemad@volkswagen.de | LinkedIn company/hi-drive | Twitter @\_HiDrive\_ | www.hi-drive.eu



## PARTNERS



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