Brainport Pilot Site

Providing real-time car sharing with automated driving functionalities

AUTOPILOT targets users between two cities (Helmond and Eindhoven) in the region of Brainport that are requesting car transport through different IoT enabled services. The user can select ride-sharing or car-sharing options, and can opt for different levels of automated driving.

Driving Modes
- Urban Driving
- Valet Parking
- Highway Pilot
- Platooning

Driving Services
- Real-time Car Sharing
- Driverless Car Rebalancing

Pilot Leaders
- TNO Innovation for Life
- IBM
- DLR
- TU/e
- Valeo

Key Performance Indicators

<table>
<thead>
<tr>
<th>Driving Mode</th>
<th>KPI</th>
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<tr>
<td>Urban Driving</td>
<td>Large community vulnerable road user detection (&gt; 1000 persons)</td>
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<tr>
<td>Valet Parking</td>
<td>Three different vehicle types, variety of routes</td>
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<td>Highway Pilot</td>
<td>Detection of five different road incidents</td>
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<tr>
<td>Platooning</td>
<td>Uninterrupted crossing of intersections</td>
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<tr>
<td>Car sharing</td>
<td>Waiting time less than one minute from reservation</td>
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Integrated services:
The Brainport site will provide various options for car travel. Road and traffic situations are assessed, resulting in route options for automated driving. Different automated driving vehicles can be on-route or be obtained from storage or through rebalancing.

Extensive IoT utilisation:
A great variety of IoT sources are involved such as road-side cameras (e.g. from A270 test site), traffic lights, drones, smartphones (VRU and legacy vehicles), automated vehicles and more.

Pilot Partners

ABOUT AUTOPilot
Our mission is to bring together relevant knowledge and technology from the automotive and the IoT value chains in order to develop IoT architectures and platforms, which will bring Automated Driving to a new dimension.

Project Duration: 01/01/2017 – 31/12/2019
Consortium: 45 beneficiaries, coordinated by ERTICO
Project Cost: €25,425,252
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