



Piloting Automated Driving on European Roads

The European research project L3Pilot tests the viability of automated driving as a safe and efficient means of transportation. The focus will be on large-scale piloting of SAE Level 3 functions, with additional assessment of some Level 4 functions. The functionality of the systems will be exposed to variable conditions on public roads, including cross-border routes.

The technologies being tested cover a wide range of driving situations, including parking, overtaking on motorways, and driving through urban intersections. The tests will provide valuable data for evaluating technical aspects, user acceptance, driving and travel behaviour, as well as impact on traffic efficiency and safety.



1,000
drivers

100
cars

10
countries

| Partner | Country | Region |
|------------|------------|-------------------------|
| Volkswagen | DE | Hamburg, Wolfsburg |
| Aptiv | DE, LU, FR | cross-border activities |
| AUDI | DE | Ingolstadt, Neckarsulm |
| BMW | DE | Munich |
| CRF | IT | Turin |
| FEV | DE | Aachen, Cologne |
| Ford | DE, BE, UK | cross-border activities |
| Honda | DE | Frankfurt am Main |
| Ika | DE | Aachen |
| JLR | UK | Coventry |
| PSA | FR, DE | cross-border activities |
| Renault | FR | Paris and other regions |
| Toyota | BE | Brussels |
| Volvo Cars | SE | Gothenburg |

Facts

4 years of duration

September 1, 2017 – August 31, 2021



Coordinated by Aria Etemad,
Volkswagen Group Innovation



Consortium counting 34 partners from 12 countries – Austria, Belgium, France, Finland, Germany, Greece, Italy, Netherlands, Norway, Sweden, Switzerland, UK; including 13 OEMs, 3 suppliers, 12 research institutes and universities, 2 insurers, 1 authority, 1 user group, and 2 SMEs



Research budget of €68 million, thereof €36 million co-funded by the European Commission

L3Pilot Applications



TRAFFIC JAM



MOTORWAY



PARKING



URBAN

L3Pilot Factsheet 29.03.2021



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 723051.



Supported by the European Council for Automotive R&D.



Automated driving technology has matured to a level motivating a final phase of road tests which can answer key questions before market introduction of the systems. L3Pilot tests will expose SAE Level 3 and Level 4 functions to different users, mixed traffic environments, including conventional vehicles and vulnerable road users.

L3Pilot addresses four major technical and scientific objectives:

1 Pilot, test and evaluate automated driving functions.

- Study different phenomena ranging from driver reactions to societal level impacts.
- Perform detailed data analysis to show the performance and effects of automated driving functions.
- Provide conclusions and make recommendations for the deployment of automated driving applications.

2 Coordinate activities across the piloting community to acquire the required data for evaluation.

- Create a coordination procedure to ensure effective operation of the tests.
- Implement the methodology to investigate the impacts of automated driving functions in variable traffic conditions, and study technical robustness and cyber-security of the system.
- Focus on the user by taking into account gender and demographic aspects in the evaluation of automated driving systems.

3 Create a harmonised Europe-wide piloting environment for automated driving.

- Create a European test community for carrying out extensive large-scale piloting on automated driving.
- Harmonise the selected test sites in terms of compliance with the needs of automated driving testing.
- Define a common testing methodology.

4 Innovate and promote automated driving for wider awareness and market introduction.

- Study the deployment potential for the introduction of automated driving applications.
- Implement an innovation management strategy to enhance the innovation potential with a push to market.
- Validate the testing methodology for automated driving systems for common use.

L3Pilot Overview

1,000 drivers 100 cars 10 European countries Piloting Automated Driving on European Roads.



Contact

Project Coordinator

Aria Etamad

Volkswagen Group Innovation
aria.etamad@volkswagen.de

Dissemination Manager

Sarah Metzner

EICT GmbH

sarah.metzner@eict.de

By extensively testing automated driving in test cars on public roads in Europe, L3Pilot is paving the way for large-scale field tests of automated in-vehicle functions in series cars.

Consortium

