L3 Pilot
Driving Automation

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.

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

1,000 drivers
100 cars
10 countries

L3Pilot Applications

TRAFFIC JAM

MOTORWAY

PARKING

URBAN

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

L3Pilot Driving Automation

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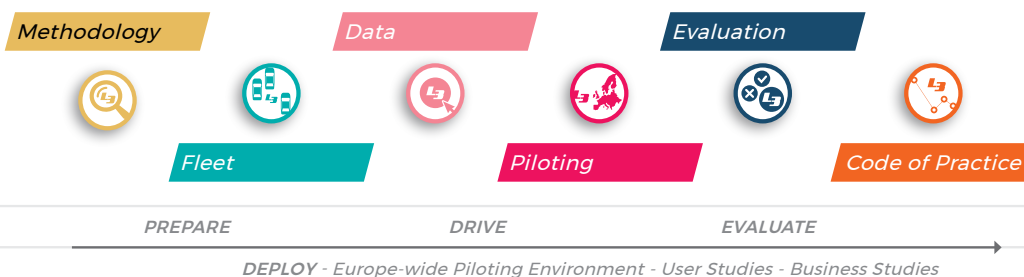- Create a European test community for carrying out extensive large-scale piloting on automated driving.
- Harmonise the selected test sites in terms of compliance with the needs of automated driving testing.
- Define a common testing methodology.

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.

Methodology — Fleet — Data — Piloting — Evaluation — Code of Practice

PREPARE   DRIVE   EVALUATE

DEPLOY - Europe-wide Piloting Environment - User Studies - Business Studies

Contact

Project Coordinator
Aria Etemad
Volkswagen Group Innovation
aria.etemad@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

VOLKSWAGEN AKTIENGESELLSCHAFT — Audi — BMW GROUP / MINI — CRF — Mercedes-Benz — Ford — STELLANTIS — Renault Group — HONDA

Jaguar — Land Rover — Opel — TOYOTA — VOLVO — APTIV — veoneer — FEV — bast — Deutsches Zentrum für Luft- und Raumfahrt German Aerospace Center — ika RWTH Aachen University

CHALMERS — SNF — TNO innovation for life — UNIVERSITÀ DEGLI STUDI DI GENOVA — UNIVERSITY OF LEEDS — VTT — wivw — WMG THE UNIVERSITY OF WARWICK — ADAS Management-Consulting Advanced Driver Assistance and Safety

eict — Allianz — Swiss Re — RDW — FIA