

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 Level3functions, 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 100 cars

		Partr	ner	Co	untry	Region	
	V	olksv	/agen	DE		Hamburg,	Wolfsburg
	Ap	tiv	/	DE, LU	J, FR	cross-borde	er activities
	AUD	ı	/ I	DE		Ingolstadt, N	eckarsulm
	BMW		D	E	M	lunich	
	CRF		IT		Tur		
F	EV		DE		Aact	nen, Cologne	
For			DE, BE	, UK	cross-	-border activ	ities
Hon	da	1	DE		Frankfu	urt am Main	
ika		DI		A	achen		
JLR		UK		Co	ventry		
PSA FR, DE		E	cros	s-bord			
enault	ault / FR		Paris and other regions		ner regions	h	
oyota	BE		/'	Brusse	ls		
vo Cars	SE		G	othenb	ourg		

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,

l authority, l 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

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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:

- 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.

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.

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.

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.

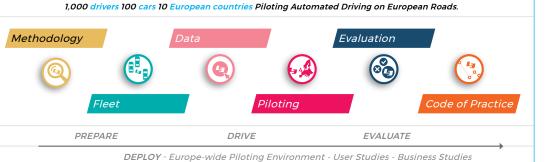
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By extensively testing automated driving in test cars on public roads in Europe, L3Pilot is paving the way for large-scale field tests of automated in-vehicle functions in series cars.

L3Pilot Overview



Consortium









































































