


Basic information	
<b>2018/2089(INI)</b> INI - Own-initiative procedure Autonomous driving in European transport <b>Subject</b> 3.20.05 Road transport: passengers and freight 3.30.06 Information and communication technologies, digital technologies 3.40.06 Electronics, electrotechnical industries, ICT, robotics	Procedure completed

Key players					
European Parliament	<b>Committee responsible</b>		<b>Rapporteur</b>	<b>Appointed</b>	
	<b>TRAN</b>	Transport and Tourism	VAN DE CAMP Wim (PPE)	28/03/2018	
			Shadow rapporteur UJHELYI István (S&D) ZOTOWSKI Kosma (ECR) DELLI Karima (Verts/ALE)		
	<b>Committee for opinion</b>		<b>Rapporteur for opinion</b>	<b>Appointed</b>	
	<b>EMPL</b>	Employment and Social Affairs	The committee decided not to give an opinion.		
	<b>ITRE</b>	Industry, Research and Energy	HENKEL Hans-Olaf (ECR)	27/06/2018	
	<b>IMCO</b>	Internal Market and Consumer Protection (Associated committee)	KOHN Arndt (S&D)	23/04/2018	
	<b>JURI</b>	Legal Affairs (Associated committee)	RADEV Emil (PPE)	15/05/2018	
	European Commission	<b>Commission DG</b>		<b>Commissioner</b>	
		Mobility and Transport		BULC Violeta	

Key events			
Date	Event	Reference	Summary
14/06/2018	Committee referral announced in Parliament		

14/06/2018	Referral to associated committees announced in Parliament		
22/11/2018	Vote in committee		
05/12/2018	Committee report tabled for plenary	<a href="#">A8-0425/2018</a>	<a href="#">Summary</a>
14/01/2019	Debate in Parliament	<a href="#">CRE link</a>	
15/01/2019	Decision by Parliament	<a href="#">T8-0005/2019</a>	<a href="#">Summary</a>
15/01/2019	Results of vote in Parliament		
15/01/2019	End of procedure in Parliament		

Technical information	
<b>Procedure reference</b>	2018/2089(INI)
<b>Procedure type</b>	INI - Own-initiative procedure
<b>Procedure subtype</b>	Initiative
<b>Legal basis</b>	Rules of Procedure EP 55
<b>Other legal basis</b>	Rules of Procedure EP 165
<b>Stage reached in procedure</b>	Procedure completed
<b>Committee dossier</b>	TRAN/8/13335

Documentation gateway				
<b>European Parliament</b>				
Document type	Committee	Reference	Date	Summary
Committee draft report		<a href="#">PE623.787</a>	20/07/2018	
Amendments tabled in committee		<a href="#">PE627.595</a>	06/09/2018	
Amendments tabled in committee		<a href="#">PE627.642</a>	06/09/2018	
Amendments tabled in committee		<a href="#">PE627.821</a>	13/09/2018	
Amendments tabled in committee		<a href="#">PE628.355</a>	26/09/2018	
Committee opinion	<a href="#">IMCO</a>	<a href="#">PE625.299</a>	15/10/2018	
Committee opinion	<a href="#">JURI</a>	<a href="#">PE623.863</a>	16/10/2018	
Committee opinion	<a href="#">ITRE</a>	<a href="#">PE623.925</a>	21/11/2018	
Committee report tabled for plenary, single reading		<a href="#">A8-0425/2018</a>	05/12/2018	<a href="#">Summary</a>
Text adopted by Parliament, single reading		<a href="#">T8-0005/2019</a>	15/01/2019	<a href="#">Summary</a>
<b>European Commission</b>				
Document type	Reference	Date	Summary	
Commission response to text adopted in plenary	<a href="#">SP(2019)355</a>	28/05/2019		

## Autonomous driving in European transport

2018/2089(INI) - 15/01/2019 - Text adopted by Parliament, single reading

The European Parliament adopted by 585 votes to 85, with 26 abstentions, a resolution on autonomous driving in European transport.

### **General principles**

Parliament welcomed the Commission's [communication](#) "On the road to automated mobility" but stressed that European actors must join forces to take on a role as world leaders in autonomous transport.

While several countries around the world (including the United States, Australia, Japan, Korea and China) are in the process of marketing connected mobility, Europe should **react much more proactively** to the rapid evolution of this sector, encourage initiatives and promote strict safety requirements for users.

Members called for the development of a new legislative framework to regulate autonomous mobility. They invited the Commission to:

- present a strategy, in particular on data, data access and cybersecurity, in accordance with its resolution of [13 March 2018](#), to ensure a technology-neutral, market-ready approach;
- ensure that obstacles to the use of such data are dismantled and a robust regulatory system in this respect is put in place before 1 January 2020.

Members also proposed clarifying the current regulatory framework, in particular as regards liability in the event of an accident caused by a completely autonomous vehicle, insurance, and the registration and protection of personal data.

### **Road transport**

Parliament underlined the importance of adopting an ambitious new General Safety Regulation for motor vehicles. It called for clear legislation, that is regularly reviewed, updated where necessary, and harmonised, obligating the installation of event data recorders in line with the revised General Safety Regulation in order to improve accident investigations and to clarify and enable the tackling, as soon as possible, of issues of liability. It underlined the need to incorporate safeguard systems right from the transition phase, during which automated vehicles will coexist with vehicles with zero connectivity and zero automation.

The Commission is called on to:

- reach a common position, with the Member States, and to cooperate in order for the EU to take and maintain a leading role in the international technical harmonisation of automated vehicles within the framework of the UNECE and the Vienna Convention;
- ensure that all systems that include digitally communicated road traffic information are interoperable;
- pay particular attention to data protection, vehicle and route data use, and cyber security;
- lay down clear ethical guidelines for artificial intelligence.

### **Air transport**

Members urged the Commission to present without delay detailed rules for automated aircraft given that a single unmanned aerial vehicle (UAV), and operational approach is not appropriate to ensure the safe integration of automated aircraft into airspace shared with manned aircraft. UAVs will need safe, and where appropriate, certified intelligence systems, as well as a specific air space management environment.

Suitable test areas for autonomous aircraft technologies, including drones, should be created in order to provide safe conditions for simulating new technological solutions before their final implementation.

### **Waterborne transport**

The resolution called on the Commission to:

- define the levels of automation for both inland and sea navigation and common standards, including for ports, in order to harmonise and stimulate the uptake of autonomous vessels in interaction with automated and non-automated users and infrastructure;
- develop a comprehensive strategy with the aim of stimulating further automation in inland shipping, its infrastructure, fairways and traffic management and the development of automated ports.

### **Rail transport**

The Commission is called on to continue the Shift2Rail programme with a view to providing for further developments towards a digital rail network and fully automated train operation, including the development of cybersecurity.

### **Research and educational needs**

Members stressed the need to develop key autonomous technologies in the EU to keep up with global competition and create new jobs.

The Commission is urged to:

- propose initiatives promoting the skills, education and training needed to keep the EU at the forefront of the autonomous transport sector. They recommended that research and innovation programmes be continued and extended for all modes of transport in the next multiannual financial period for 2021-2027 (Horizon Europe);
- establish a Joint Undertaking along the same lines as Shift2Rail for rail transport and CleanSky for the aeronautics industry, so as to create an industry-driven strategic initiative on autonomous transport.

# **Autonomous driving in European transport**

The Committee on Transport and Tourism adopted the own-initiative report by Wim van de CAMP (EPP, NL) on autonomous driving in European transport.

The Committee on the Internal Market and Consumer Protection, exercising its prerogative as an associated committee in accordance with [Article 54 of the Rules of Procedure](#), also gave its opinion on the report.

The EU strategy on connected and automated mobility is closely linked to the Commission's political priorities. The report stressed that the EU should encourage and further develop digital technologies for automated mobility to offset human error and reduce traffic incidents and road fatalities.

Automation levels exist, levels 1 and 2 already being on the market, but the conditional, high and full automation levels (when a vehicle becomes self-driving - level 3) are expected to become available only in 2020-2030.

It is key for Europe to stay at the forefront of this field, in order to reap the benefits of automated road transport and to successfully compete with the enormous thrust of efforts elsewhere in the US, China or Japan.

### ***Road transport***

Members underlined the importance of adopting an ambitious new General Safety Regulation for motor vehicles. They called for clear legislation that is regularly reviewed, updated and harmonised, obligating the installation of event data recorders in line with the revised General Safety Regulation in order to improve accident investigations and to clarify and enable the tackling, as soon as possible, of issues of liability.

Members called on the Commission to:

- reach a common position, with the Member States, and to cooperate in order for the EU to take and maintain a leading role in the international technical harmonisation of automated vehicles within the framework of the UNECE and the Vienna Convention;
- ensure that all systems that include digitally communicated road traffic information are interoperable;
- pay particular attention to data protection, vehicle and route data use, and cyber security;
- lay down clear ethical guidelines for artificial intelligence.

### ***Air transport***

Members urged the Commission to present without delay detailed rules for automated aircraft given that a single unmanned aerial vehicle (UAV), and operational approach is not appropriate to ensure the safe integration of automated aircraft into airspace shared with manned aircraft. UAVs will need safe, and where appropriate, certified intelligence systems, as well as a specific air space management environment.

Suitable test areas for autonomous aircraft technologies, including drones, should be created in order to provide safe conditions for simulating new technological solutions before their final implementation.

### ***Waterborne transport***

The report called on the Commission to:

- define the levels of automation for both inland and sea navigation and common standards, including for ports, in order to harmonise and stimulate the uptake of autonomous vessels in interaction with automated and non-automated users and infrastructure;
- develop a comprehensive strategy with the aim of stimulating further automation in inland shipping, its infrastructure, fairways and traffic management and the development of automated ports.

### ***Rail transport***

The Commission is called on to continue the Shift2Rail programme with a view to providing for further developments towards a digital rail network and fully automated train operation, including the development of cybersecurity.

### ***Research and educational needs***

Members stressed the need to develop key autonomous technologies in the EU to keep up with global competition and create new jobs.

Members urged the Commission to:

- propose initiatives promoting the skills, education and training needed to keep the EU at the forefront of the autonomous transport sector. They recommended that research and innovation programmes be continued and extended for all modes of transport in the next multiannual financial period for 2021-2027 (Horizon Europe);
- establish a Joint Undertaking along the same lines as Shift2Rail for rail transport and CleanSky for the aeronautics industry, so as to create an industry-driven strategic initiative on autonomous transport.