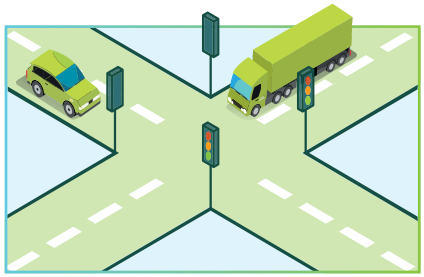
European Commission

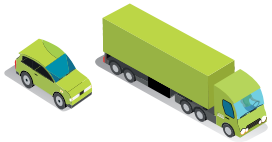
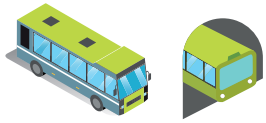
Europe on the Move

CONNECTED & AUTOMATED MOBILITY: FOR A MORE COMPETITIVE EUROPE

Road transport is at a cross-road. Cars and other vehicles are increasingly equipped with driver assistance systems and fully autonomous vehicles are just around the corner. Cooperative, automated and connected driving could shape mobility in the years to come, the way motor vehicles did in the last century. It will **make mobility safer, cleaner, more accessible and more efficient**. It will contribute to a strong and competitive industry that creates jobs and gives an innovation boost to the entire economy. The Commission supports industry and public efforts to prepare now for an optimal roll-out.

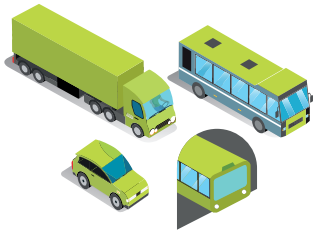


TIMELINE

	2020s		2030s
TRUCKS & CARS 	• Automated driving on motorways (e.g. truck platooning) and at low speed in cities (e.g. garbage trucks or valet parking)	→	• **Towards fully autonomous mobility.**
PUBLIC TRANSPORT 	• Automated mobility at low speed (e.g. urban shuttles, small delivery vehicles in cities)	→	• **Towards fully autonomous mobility. 25% of trips in cities covered by shared automated vehicles.**

By 2022

ALL NEW VEHICLES



- Connected to the internet

- Many of them able to communicate directly to each other and their environment as of 2019
- Supported by free services high-precision digital mapping thanks to satellite data from Galileo services as of 2019

WHAT NEEDS TO BE DONE?

Europe accounts for 23% of global motor vehicle production. Our vision is for **Europe to be a world leader for fully autonomous safe mobility**. This will lead to new jobs, economic growth, less traffic congestion and new mobility solutions for the elderly and physically impaired.

All driver assistance systems approved in the EU today require that the driver is at all times attentive and in control of the vehicle. As cars become more autonomous, we need to ensure that new vehicles are safe and that they bring the expected benefits to EU citizens.

We will invest in research and adapt the legal framework taking into account societal and ethical issues.

SAFETY

We need a real Single Market for vehicles that ensures road safety, data protection, access and cybersecurity

SOCIETY

We need to anticipate the effects of cooperative, connected and automated mobility on society, economy and environment

COMPETITIVENESS

We need to develop key technologies in Europe to keep up with competition and create jobs

COMMISSION HELPS MEMBER STATES AND INDUSTRY ON THE WAY TO CONNECTIVITY AND AUTOMATION WITH...

AN APT LEGAL FRAMEWORK

- New vehicle type-approval rules
- Proposal made today for new safety measures for driver assistance systems and autonomous driving
- Proposal made today for new safety requirements for roads to support automated vehicles
- Proposal today for mandatory black box in automated vehicles
- Upcoming guidelines on the product liability framework
- Develop a balanced and fair framework for the sharing of vehicle data
- By end 2018, adoption of rules to ensure secured communication, data protection and interoperability
- By end 2018, recommendation on the use of spectrum for 5G large scale testing

REGARD FOR SOCIETY AND ETHICS

- Assessment of the medium and long term socio-economic and environmental impacts
- Support to the reskilling of the workforce
- EU forum on ethics to address issues related driverless mobility
- By end 2018, ethical guidelines on the development of artificial intelligence

FINANCIAL SUPPORT

- €300 million for research and innovation on automated vehicles from 2014 to 2020
- Up to €450 million made available today under the Connecting Europe Facility to foster the digitalisation of transport
- Establishment of a new partnership under the 2021-2027 EU budget to ensure a consolidated approach towards research and pre-deployment