



Automated Driving

CLEPA Position Paper

CLEPA companies are dedicated to transport sustainability by improving air quality, energy efficiency and road safety. The automation of the driving tasks is one of the emerging technical evolutions which will help in meeting these challenges while contributing to maintaining the technological leadership of the European Automotive Industry.

From a technological point of view, automated vehicles represent the evolution of advanced driver assistance systems, which we already have today. Research results reflect the feasibility of higher levels of automation as well as the beneficial effect on road safety, emissions reduction, fuel consumption and traffic congestion reduction. With regard to road safety, around 90 % of all accidents are caused by human errors. A zero-accident approach must address the driver as main root cause.

Setting up an effective global regulatory framework is one of the vital pre-conditions for successful developments and market introduction.

The 1968 Vienna Convention on Road Traffic needs to be amended to allow automated driving. CLEPA welcomes the decision of the UN Working Party on Road Traffic Safety (WP1) taken in March 2014 and hopes national traffic laws will soon be amended accordingly. The necessity of further legislative amendments should be assessed to allow full implementation of automated driving systems in particular with respect to driver attention.

In parallel, the technical prescriptions of some UN Regulations under the 1958 Agreement also need some adaptations. In particular UN Regulations on steering, braking and lighting and light signaling need to be analyzed and CLEPA will prepare with the industry stakeholders the relevant draft amendments.

Another issue for a successful deployment of automated driving is user and societal acceptance. Therefore, it is essential to raise awareness and involve all stakeholders in an open communication on benefits and challenges of a higher level of driver assistance to reach a wide market acceptance.

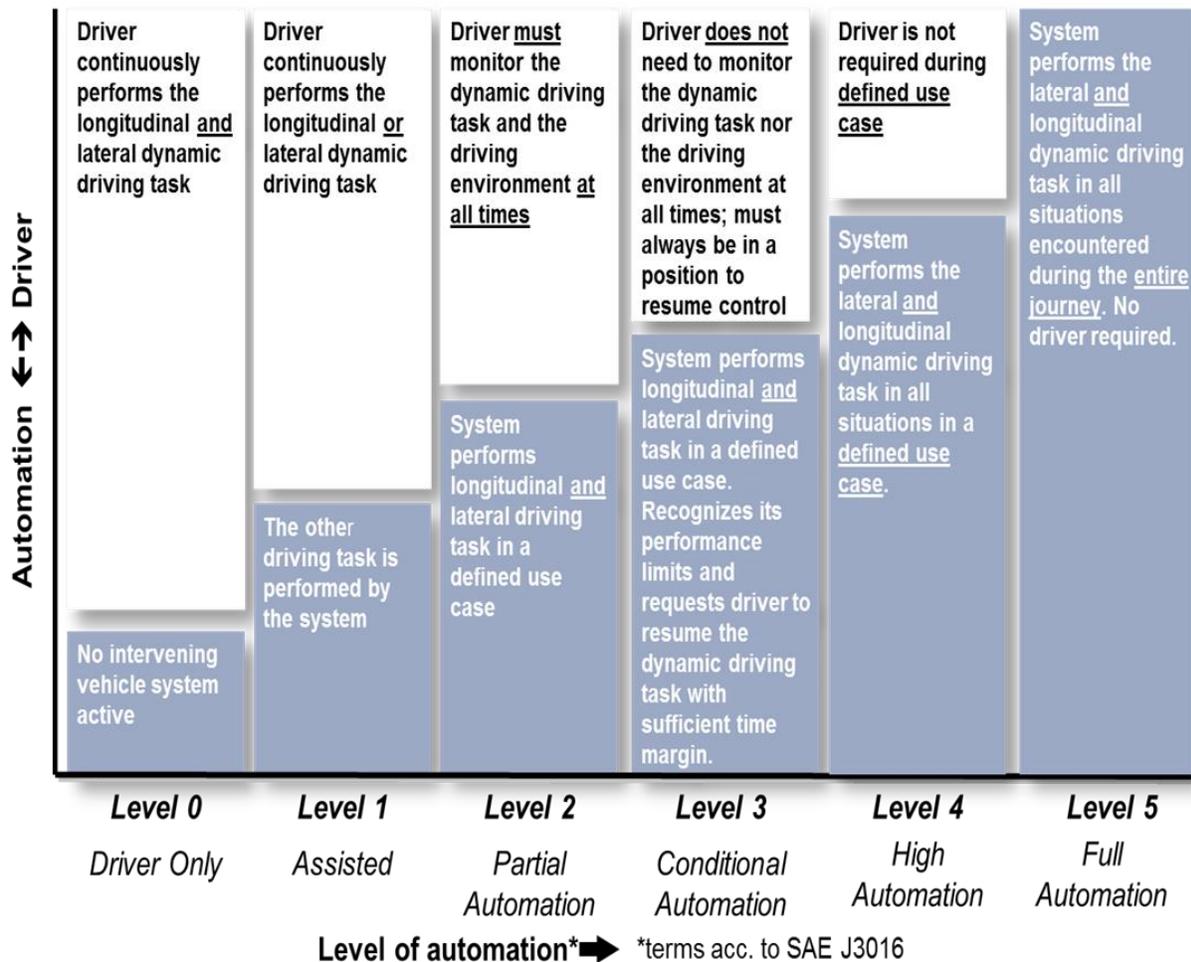
This acceptance would need to be assessed and monitored. CLEPA is willing to contribute to this process.

CLEPA will support a stepwise approach towards higher levels of automated driving. CLEPA R&I roadmaps support this development with technological advancements in key innovation areas (i.e. safety and ITS). These include necessary progress and implementation of advanced safety technologies, communication, data handling, highly precise dynamic positioning, environmental recognition, human factors and human machine interaction, etc. Regarding communication CLEPA supports activities accelerating deployment of vehicle to vehicle (V2V) and vehicle to



infrastructure (V2I) communication such as the development of an interoperable, open access, secured and standardized telematics platform. Further, it is critical to allocate sufficient radio frequency bandwidth for V2V and V2I communication. Regarding the environmental recognition, improved standards for road traffic signs and road markings and their durability will support better performance of Traffic Sign Recognition.

For the development of both technical and regulatory aspects, a classification of those new automated systems with a sufficient level of detail is needed. CLEPA supports the OICA proposal identifying the various levels of automated driving (see below), using the terminology in accordance with SAE standard J3016. If harmonized worldwide, the definitions of the levels of automation create a common understanding for governmental institutions, regulatory bodies, OEMs, suppliers and other stakeholders.



(source: OICA)

About CLEPA

CLEPA is the European Association of Automotive Suppliers. 113 of the world's most prominent suppliers for car parts, systems and modules and 25 National trade associations and European sector associations are members of CLEPA, representing more than 3 thousand companies, employing more than 5 million people and covering all products and services within the automotive supply chain. Based in Brussels, Belgium, CLEPA is recognized as the natural discussion partner by the European Institutions, United Nations and fellow associations (ACEA, JAMA, MEMA, etc).

Our **vision** is for the European Automotive Suppliers to be the leading provider of highly efficient and sustainable mobility worldwide.

Our **mission** is to increase the competitiveness of the European automotive suppliers' industry and drive its sustainable growth while enhancing wealth and employment in Europe.

Facts about the European automotive industry

- More than **12 million** people are employed in the European automotive industry
- European automotive suppliers directly employ around **5 million** people
- European automotive suppliers invest **€18bn** in RDI per year. They are one of the biggest private investors into research and innovation
- Per year, **16 million** vehicles are manufactured in Europe, contributing to the stability and growth of the European economy