

Solutions providers for ever better Active and Passive Safety

Where do we come from and what is still in the pipeline?



What is CLEPA?

CLEPA - the European Association of Automotive Suppliers - brings together over **120 global suppliers** of **car parts**, **systems** and **modules** and more than **20 national trade associations** and European **sector associations**.

What does CLEPA do?

CLEPA is the voice of the EU automotive supplier industry, linking the sector to policy makers.



Key past and future road safety technologies Brake assist Child restraint systems ACC adaptive cruise control Collapsible steering column Adaptive front lights Cruise control Airbags Crumple zone/frame Energy absorption Antilock braking systems Drowsiness alert Anti-skid traction control Electronic stability control Automatic parking Forward collision warning/assist Autonomous valet parking Frontal/lateral/pole impact protection Blind spot detection

What is Active and Passive safety?



Active safety - refers to safety systems that help avoid accidents, such as good steering and braking but has the last years been expanded with many new systems such as forward collision warning system and autonomous emergency braking. Passive safety - refers to components of the vehicle (primarily airbags, seatbelts and the physical structure of the vehicle) that help to protect during and after a crash.



General Safety Regulation (GSR)

- Every 3 years the European Commission must make a report to the European Parliament and Council concerning news safety measures, if appropriate.
- New measures should meet the objectives of CARS 2020 and the EU policy Orientations on Road Safety.
- A legislative proposal for the new safety requirements is expected in early 2018.
- Main topics:
 - New measures for active safety, for example: Lane Keep Assistance extension to Light Duty Vehicles, Monitoring Driver Drowsiness and Distraction, Intelligent Speed Adaptation and Emergency Braking Display, Tyre Pressure Monitoring System TPMS (for Vans and Heavy Duty Vehicles), Vulnerable Road Users visibility and detection
- New measures for passive safety, including Frontal Crash Full Width (only Light Duty Vehicles),
 Side Impact elimination of exemptions (only Light Duty Vehicles),
 Pole Impact (only Light Duty Vehicles) and Rear tank protection (only Light Duty Vehicles)



CLEPA position

The European automotive suppliers are fully supportive of the European Commission's **ambitious target of halving by 2020 the number of annual fatalities** in the EU compared to 2010, not exceeding 15.000. CLEPA is actively involved in the regulatory process and welcomes real-life innovations placed on the market in Europe, aimed at increasing **safety**.



CLEPA however also highlights the fact that an **integrated approach** including vehicles, infrastructure and road users is the only way forward to make drastic progress in road safety.

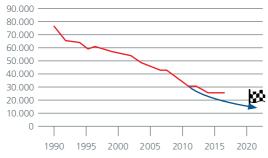
Great **progress** has been made in the past, thanks to the implementation of seat belts, airbags, ESC stability control and other important safety technologies.





In terms of **passive safety**, CLEPA would welcome more attention focused on children, the increasingly **ageing population** but also cyclists which are still very vulnerable. Increasingly popular vehicles such as **2-wheelers**, **electrical scooters** should also be a part of the equation.

Road safety evolution in the EU



Fatalities
Target

Source: CARE (EU road accidents adtabase) or national publications. European Commission/Directorate General Mobility and Transport

Which intiatives from CLEPA members are already on the market, and what's in the pipeline?

Together with EU policy makers, CLEPA members have actively introduced various systems and technologies into the market over the last 15 years, which have drastically reduced the number of fatalities and casualties in EU traffic. Examples are:

- passenger car frontal or lateral crash safety
- pedestrian protection provisions
- electronic stability control systems on all vehicles
- tyre pressure monitoring system for passenger cars
- advanced emergency braking systems and lane departure warning systems, on trucks and buses
- · driver safety belt reminder
- ISOFIX connectors to safely install child seats
- daytime running lamps
- Intelligent Speed Adaptation
- Driver Drowsiness and Distraction
- Vulnerable Road Users Visibility and Detection

When it comes to passive safety, a lot of new systems have recently entered or will soon enter the market, showing very promising results.



warning): monitors Support): track the the vehicle's position vehicle and brings it in the lane



LDW (Lane departure LKS (Lane Keeping back to the center of crashes (15% of the lane



AEB (automatic emergency braking): addresses rear end all accidents with casualties)



Driver aid systems: night vision, adaptive based active cruise lighting, TPMS, safety control: measures belt warning for rear gap/distance seats



Radar and video

