



Volvo Trucks. Driving Progress



What is the EU General Safety Regulation (GSR) and why is it being implemented?

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- **The EU is redrawing** its regulations on vehicle safety as part of its efforts to halve the number of fatal and serious injuries from traffic accidents in the EU by 2030.
 - The GSR proposes new, mandatory, active safety features in European vehicles to protect occupants of the vehicle, pedestrians and cyclists and mitigate human error, which causes about 90% of accidents on European roads.
 - The EU estimates its new vehicle regulations will save more than 25,000 lives and avoid at least 140,000 serious injuries by 2038.
 - The GSR is part of a broader effort to make traffic safer, including better risk-mapping and updated rules on road infrastructure, especially to make urban traffic safer for vulnerable road users.



Key dates

- **In 2017**, the EU Commission launched a public consultation on how to improve vehicle safety measures. After discussions between the Commission, Council and parliament, the three bodies reached provisional agreement on the new EU General Safety Regulations in May 2019.
- **Ahead of implementation**, the council and the parliament need to formally vote to greenlight the new rules, this is expected to take place before 2020.
- **As of October 2019**, the exact technical details of each feature are still being worked out. Most of these technologies will be implemented on all new vehicles coming out by 2022.
- **The direct vision** standard for trucks will be introduced for new vehicles in 2025.

The new safety feature for trucks:

According to the EU GSR proposal, the following features will be included in new trucks starting in 2022. (One proposal, the improved direct vision from driver's position will be introduced starting in 2025.)

Emergency stop signal

What is it? A flashing brake light (or similar) that signals to other road users behind the truck that the truck is quickly slowing down or braking heavily.

Intelligent speed assistance

What is it? The system will actively monitor speed and alerts the drivers if he/she is breaking the speed limit, to encourage them to slow down.

Vulnerable road user detection and warning on front and side of vehicle

What is it? Systems at the front and side of the vehicle that detect and warn of vulnerable road users, especially when making turns.

Vulnerable road user improved direct vision from driver's position (will be introduced starting in 2025)

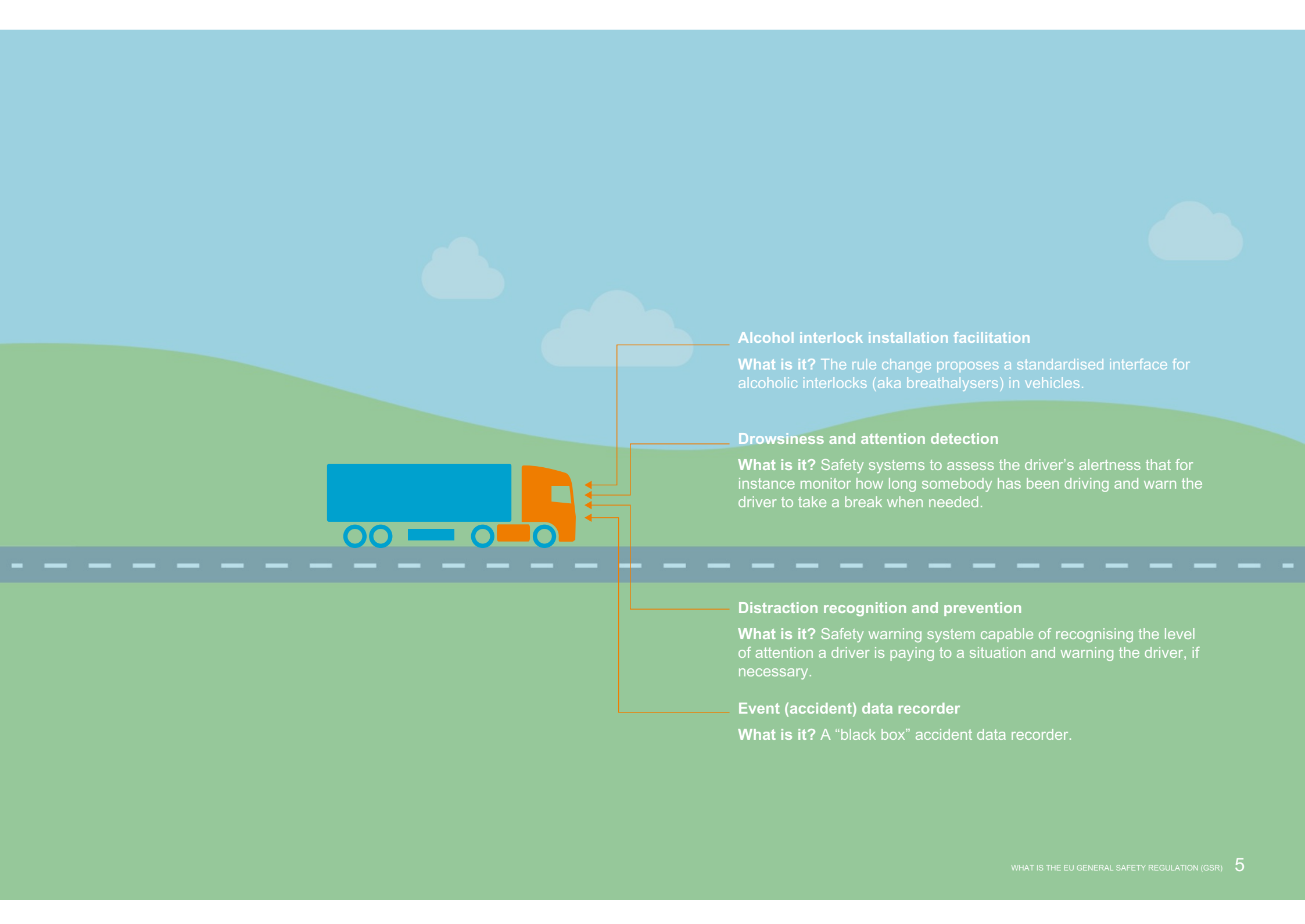
What is it? Specific requirements to improve "direct vision" (what drivers can see directly through the windows of their vehicle) and to remove blind spots. The new standards aim to allow drivers to see vulnerable road users, including cyclists and pedestrians, faster and easier.

Reversing detection

What is it? Detection technology, such as camera or sensors, to give the driver an overview of objects and people behind the truck.

Tyre pressure monitoring system

What is it? A system that monitors the tyre pressure and reports it in real time to the driver



Alcohol interlock installation facilitation

What is it? The rule change proposes a standardised interface for alcoholic interlocks (aka breathalysers) in vehicles.

Drowsiness and attention detection

What is it? Safety systems to assess the driver's alertness that for instance monitor how long somebody has been driving and warn the driver to take a break when needed.

Distraction recognition and prevention

What is it? Safety warning system capable of recognising the level of attention a driver is paying to a situation and warning the driver, if necessary.

Event (accident) data recorder

What is it? A "black box" accident data recorder.

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