



Safety Systems, Solutions and Requirements

Introduction to the EU General Safety Regulation

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EU General Safety Regulation

- Context

The GSR introduces

- new systems to AVOID accidents
- improved active and passive safety measures,

both for PROTECTION of occupants as all active road users

for ALL ROAD VEHICLES*

(*Cars, vans, buses and trucks)

EU General Safety Regulation

- Context

The GSR concerns:

ALL ROAD VEHICLES

- Cars

- Vans

- Trucks

- Buses

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- Context

Despite high level of safety that offer all vehicles today

25 000 people die

135 000 people get seriously injured

every year on EU roads

(EU Press Release 06 July 2022)

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BUSWORLD
foundation

the global bus alliance

- Context

EU target

saving 25 000 lives and avoid 135 000 serious injuries

by 2038

(EU Press Release 06 July 2022)

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- Context

EU target

- by mandatory advanced driver assistant systems (**ADAS**)
- by **legal framework** for the approval of **automated** and **fully driverless vehicles** in the EU

(EU Press Release 06 July 2022)

- Context

'Today's TECHNOLOGY helps us to increase the level of safety of our cars, and enable us to safely introduce autonomous driving'

Margarethe VESTAGER, former Executive Vice-President for a Europe fit for the Digital Age

'Our vehicles are increasingly automated. With the new SAFETY LEGISLATION, Europe is making sure that technology improves our daily life and that the automotive industry has a predictable and safe framework to introduce innovative technology and maintain its global competitiveness'

Thierry BRETON, Commissioner, responsible for the Internal Market

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- Context

Time table / Key dates

2017 – public consultation by the EU Commission

‘How to improve vehicle safety measures?’

2022 – official introduction of the GSR (EU) 2019/2144 legislation
(6th of July 2022)

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- Implementation

2022 – official introduction of the GSR (EU) 2019/2144 legislation

06/07/2022 – New Vehicle Types

07/07/2024 – All New Vehicles

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- **New systems to avoid accidents and improved active and passive safety measures,** both for protection of occupants/driver and active road users (1)

System / measure	Abbr.	Regulation
Pedestrian and cyclist collision warning	MOIS	UNR 159
Blind spot information system	BSIS	UNR 151
Reversing detection	RCDS	UNR 158
Tyre pressure monitoring for heavy-duty vehicles	TPMS	UNR 141/01
Protection against cyberattacks	CS	UNR 155
Intelligent speed assistance	ISA	EUR 2021/1958
Emergency Stop Signal	ESS	UNR 048/07
Alcohol interlock installation facilitation	AIF	EUR 2021/1243
Driver drowsiness and attention warning	DDAW	EUR 2021/1341

EU General Safety Regulation

- **New systems to avoid accidents and improved active and passive safety measures,** both for protection of occupants/driver and active road users (2)

System / measure	Phase	Abbr.	Regulation
Hydrogen system material qualification		H2	EUR 2021/535-XIV
Advanced driver distraction warning		-	new
Registration plate space (front + rear)		-	EUR 2021/535-III
Statutory plate and vehicle identification number		-	EUR 2021/535-II
Heavy-duty vehicles direct vision		DV	new
Event data recorder		EDR	UNR 160

07/07/2024 – 07/01/2026 – New Vehicle Types

07/07/2026 – 07/01/2029 – All New Vehicles