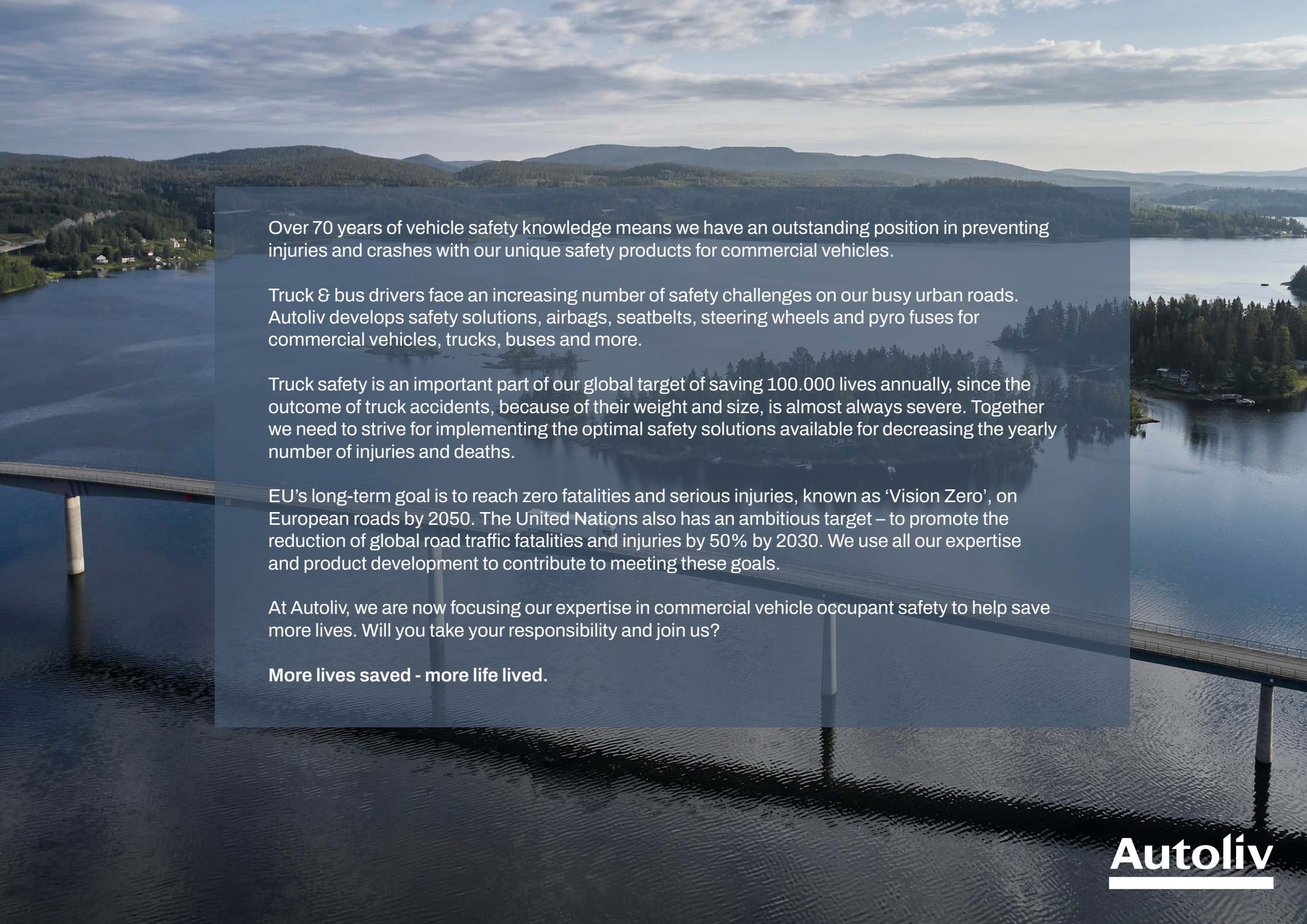


Commercial Vehicle Safety



Over 70 years of vehicle safety knowledge means we have an outstanding position in preventing injuries and crashes with our unique safety products for commercial vehicles.

Truck & bus drivers face an increasing number of safety challenges on our busy urban roads. Autoliv develops safety solutions, airbags, seatbelts, steering wheels and pyro fuses for commercial vehicles, trucks, buses and more.

Truck safety is an important part of our global target of saving 100.000 lives annually, since the outcome of truck accidents, because of their weight and size, is almost always severe. Together we need to strive for implementing the optimal safety solutions available for decreasing the yearly number of injuries and deaths.

EU's long-term goal is to reach zero fatalities and serious injuries, known as 'Vision Zero', on European roads by 2050. The United Nations also has an ambitious target – to promote the reduction of global road traffic fatalities and injuries by 50% by 2030. We use all our expertise and product development to contribute to meeting these goals.

At Autoliv, we are now focusing our expertise in commercial vehicle occupant safety to help save more lives. Will you take your responsibility and join us?

More lives saved - more life lived.

Autoliv

Optimal Commercial Vehicle Safety

- an overview

We offer a wide range of safety products for commercial vehicles based on our extensive research into real-life accidents. The way we continuously innovate solutions is a key differentiator that grants us with the trust to be primary supplier to the worlds biggest commercial vehicle manufacturers.



Optimal Commercial Vehicle Safety

- our product portfolio in detail

This is the current range of safety products for commercial vehicles but we constantly develop new and improved solutions adapted for market needs. We often work directly with the research and development departments at vehicle manufacturers to create optimized solutions together.



AIRBAGS

Airbag function:

Driver and passenger
Knee
Side and curtain
Far-Side
Pedestrian protection

Inflators & initiators:

Pyrotechnic
Stored gas
Hybrid
Initiators & micro gas generators

One-piece-woven cushions



SEATBELTS

For optimal driver protection

Buckles & Webbing
Height adjusters
Pillar loops & Tongues
Retractors & Pre-tensioners

Advanced seatbelts
Pre-pretensioner



STEERING WHEELS

Leather wrap and polyurethane wheels
Magnesium & aluminum die cast structures

Heated rim, horn and touch switches
Gesture controls
Steering wheel ECUs (HOD, heat and alert)

Human Machine Interface (HMI) platform:

Enabling ADAS features
Optical sensors
Hands on/ off detection (HOD)
Driver alert (optical and haptic)



PYRO SAFETY SWITCHES

Prevents electrical fires and vehicle systems short circuits.

We offer low voltage, high voltage & combination of the two.

In addition we have both normally open and normally closed units.

Statistics

- together we can decrease these numbers

At Autoliv, our goal is to save lives. We currently estimate 35,000 lives saved but want to take it to 100,000 lives saved annually. Increased seatbelt usage from commercial vehicle drivers and vehicles equipped with both airbags and rollover protection will help us realize our goal.

Our internal research at Autoliv shows that heavy goods vehicles are overrepresented in crashes with serious injuries and fatalities. Those crashes typically occur under good weather conditions (during daylight, sunny weather on dry roads).

The crashes tend to occur in rural areas, higher severity crashes have a higher share of rural locations. Crash scenarios are most commonly in longitudinal traffic, followed by crossing and turning scenarios. Heavy goods vehicle occupants are most often injured in crashes with other heavy goods vehicles, followed by single vehicle crashes and collisions with passenger cars and objects.

Severe injuries are mainly located at the head, neck, thorax and spine, most often caused by ground impact or parts of the vehicle interior.

Statistics for Germany from 2021*

Number of all crashes

258 987

Number of Heavy good vehicles involved crashes

5 739

Number of heavy goods vehicles involved fatalities

204

*Source: German National statistics database: Destatis



New regulations for truck and road safety in 2024

The new EU General Safety Regulation (GSR)

To halve the number of fatal and serious injuries caused by traffic accidents in the EU by 2030, the EU is redrawing its regulations on vehicle safety.

The GSR proposes new, mandatory, active safety features in European vehicles to protect occupants of the vehicle, vulnerable road users and mitigate human error.

The EU estimates its new vehicle regulations will save more than 25,000 lives and avoid at least 140,000 serious injuries by 2038.

This regulation is part of a broader focus to improve road safety, including better risk-mapping and updated rules on road infrastructure, especially for the most vulnerable road users in urban areas.

Key dates - requirements for trucks

11 active safety systems will be required and eight of them will be mandatory for new trucks from July 2024. Advanced distraction recognition & prevention will become mandatory in 2026. The direct vision requirements and event data recorder will follow in early 2029.

**Contact us today to take your step
towards safer solutions**

SALES REGION EUROPE

Alexander Supthut
Senior Sales Manager
alexander.supthut@autoliv.com

SALES NORTH AMERICA

Christina Nagy
Senior Sales Manager
christina.nagy@autoliv.com

TECHNICAL SALES

Ralf Baar
Head of application engineering
ralf.baar@autoliv.com

