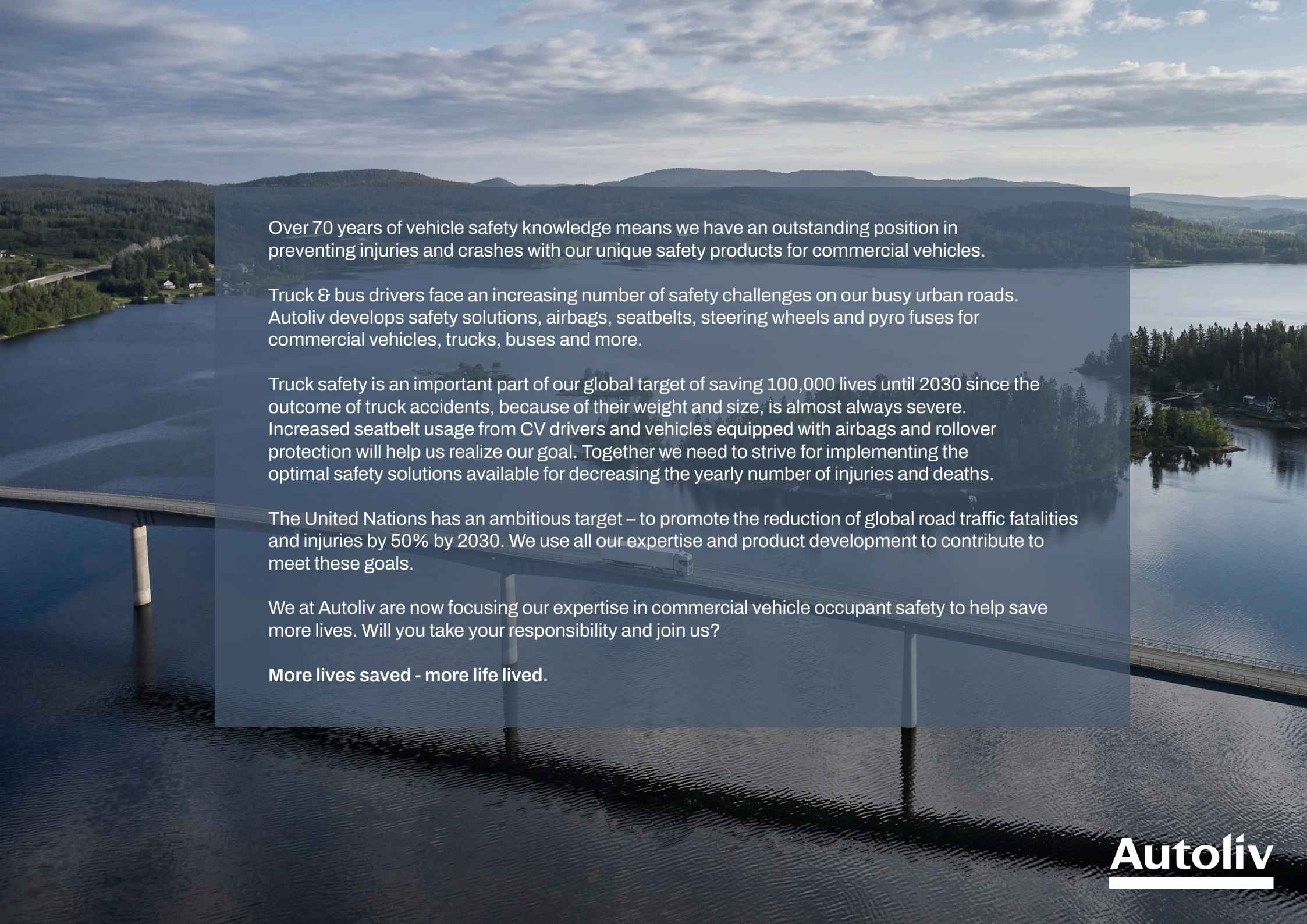


Commercial Vehicle Safety



An aerial photograph of a long concrete bridge spanning a large, calm lake. The bridge has several support pillars. In the background, there are rolling green hills and mountains under a blue sky with scattered white clouds. The water reflects the sky and the surrounding landscape.

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 until 2030 since the outcome of truck accidents, because of their weight and size, is almost always severe. Increased seatbelt usage from CV drivers and vehicles equipped with airbags and rollover protection will help us realize our goal. Together we need to strive for implementing the optimal safety solutions available for decreasing the yearly number of injuries and deaths.

The United Nations 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 meet these goals.

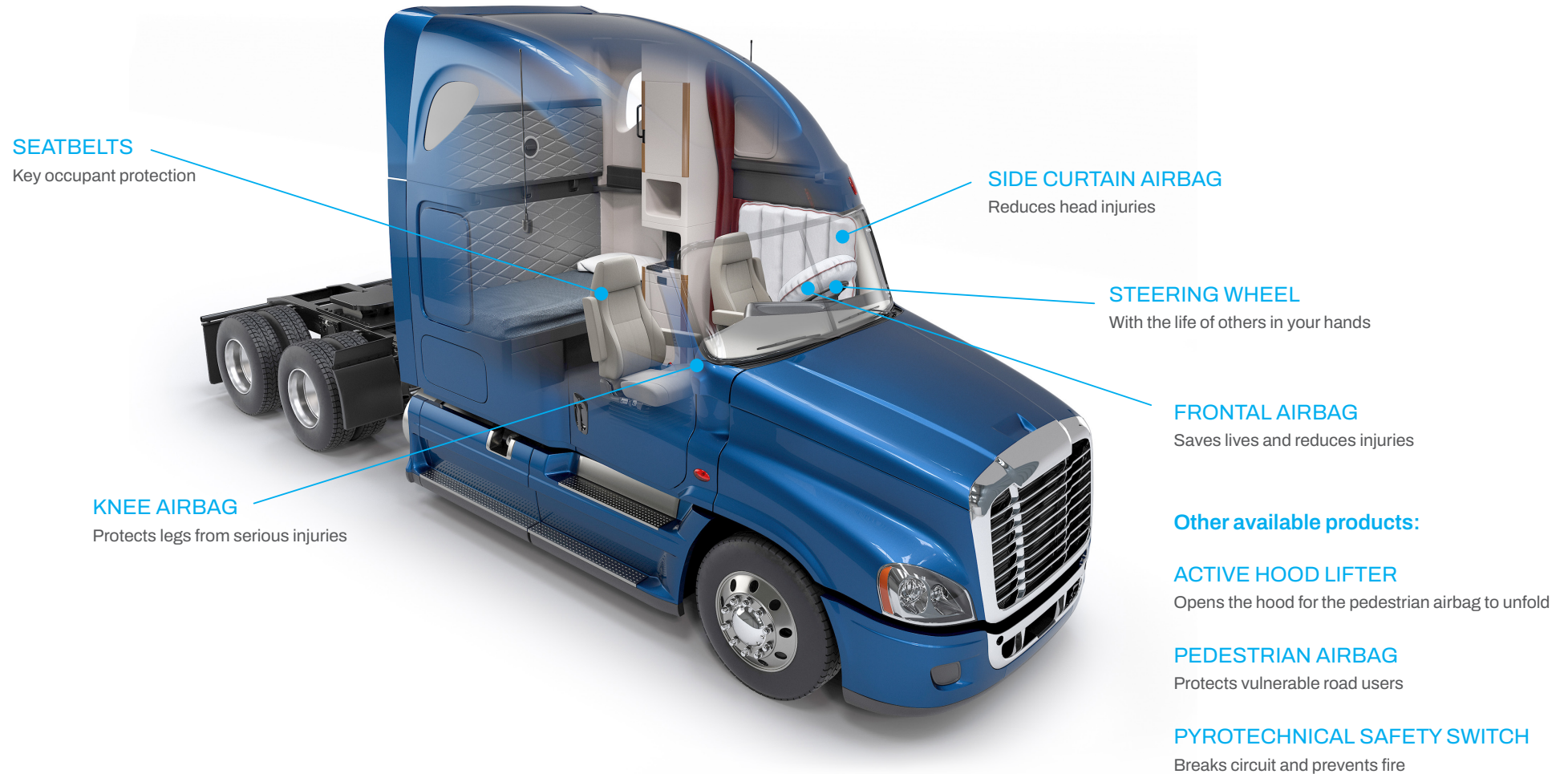
We at Autoliv are now focusing our expertise in commercial vehicle occupant safety to help save more lives. Will you take your responsibility and join us?

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



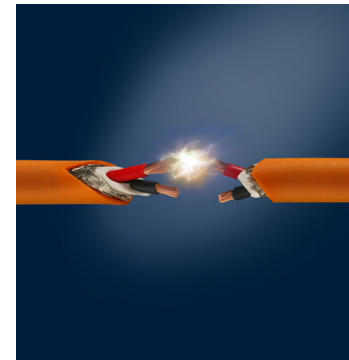
STEERING WHEELS

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.

Injuries and crashes in North America needs to decrease

Statistics

In the US in 2020, 439 206 heavy goods vehicles were involved in crashes, and of those crashes, a total of 17% (1008 people) were fatal. Of all crashes in the US in 2020 8% had an involvement of a heavy goods vehicle.

In the US in 2021, 5,700 large trucks were involved in a fatal crash, an 18% increase from 2020 and a 49% increase in the last 10 years. Large trucks are defined as any medium or heavy truck, not including buses and motor homes. Both commercial and non-commercial vehicles are included.

Large trucks accounted for:

- 9% of all vehicles involved in fatal crashes
- 5% of all registered vehicles
- 10% of total vehicle miles traveled

Statistics 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.

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 by 2030. Increased seatbelt usage from commercial vehicle drivers and vehicles equipped with both airbags and rollover protection will help us realize our goal.

Learn more on [autoliv.com](https://www.autoliv.com)

Sources: National Safety Council (NSC) analysis of NHTSA's CRSS and Fatality Analysis Reporting System (FARS) data files.
US national statistics: National Highway Traffic Safety Administration

Contact us today to take your step towards safer solutions

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