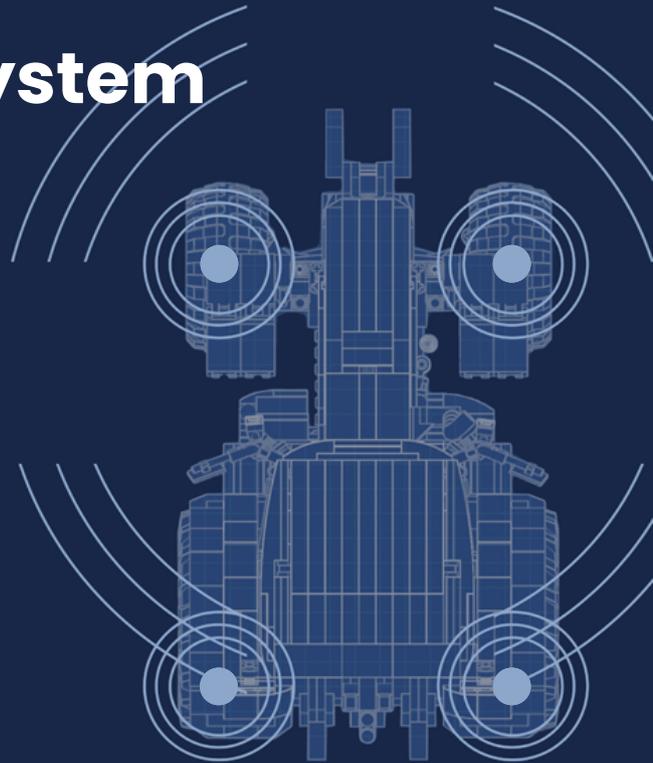


# Prevent damage with Collision Avoidance System

Roboauto Collision Avoidance System (CAS) is an ready-to-implement solution for OEMs and machine integrators, which prevents vehicle collision and protects workers and property.

It can be used independently or as a part of the RoboVerse platform with teleoperation or autonomy.



## Roboauto solution

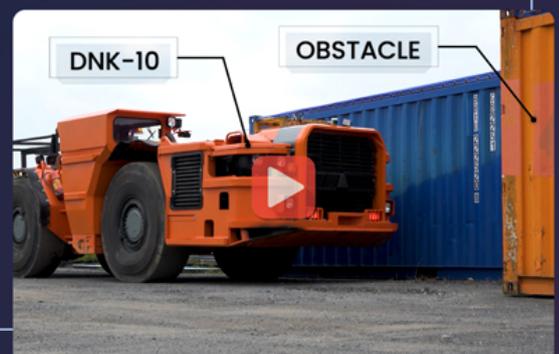
- Tried & tested hardware and software package
- Versatile solution (adjustable combination of sensors)
- Full integration with our Teleoperation, DBW and Autonomy solution
- Compliance with industry standards
- Universal solution – can be used on different types of vehicles and fits various use cases

### Reverse driving damage elimination

The DNK-10 loader is designed for loading and moving bulk materials over short distances to designated areas. This vehicle is equipped with Roboauto CAS. This system automatically detects a possible forward collision and notifies the driver to stop the vehicle.

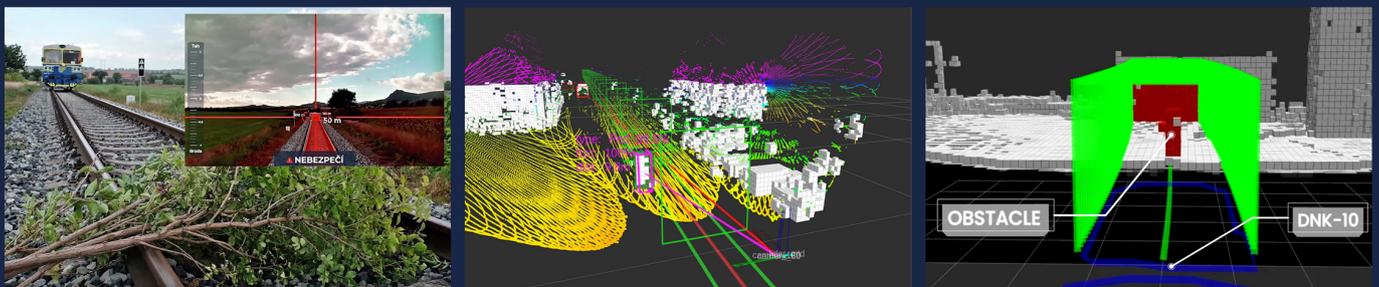
- Gauge calculation according to 2 axles steering
- Noise cancellation (exhaust gases)
- First step to autonomy

### Ferrit case study



# Features

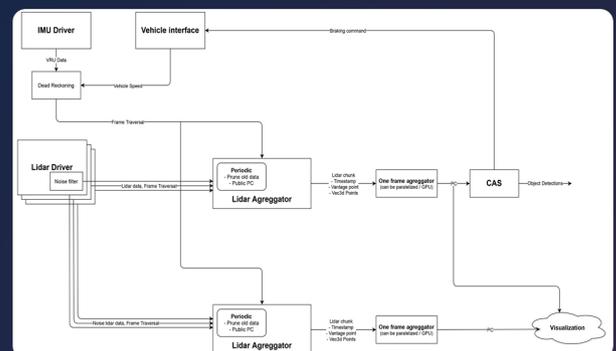
- **Noise cancellation** (CAS does not perceive smoke, fumes etc. as an obstacle)
- **Two-way communication** (awareness of current state of the vehicle in the real time)
- **Space traversability calculation** (provide detailed information about the surface considering properties like slope, stair, roughness)
- **Switching between TTC and distance braking** (possibility to alter approach to vehicle braking according to use case)
- **Gauge calculation** (anticipation of a risk of an obstacle collision according to the vehicle's gauge)
- **Emergency STOP** in case of a signal loss (teleoperation)
- Can be configured to prevent start-up in case of obstacle proximity



# Solution

Roboauto CAS provides a vehicle independent system that works independently, but is compatible with a comprehensive robotic vehicle solution by Roboauto. The system is modular, can be used on different types of vehicles and fits various use cases.

Roboauto CAS is a complex package of hardware (HD cameras, lidars, IMU and more) and software. The data from the sensors are processed in a dedicated computing unit designed specially for CAS. This unit is interfaced with the onboard unit.



Do you need to know more about CAS possibilities for your vehicle?

**BOOK A DEMO**