

# Collision Awareness

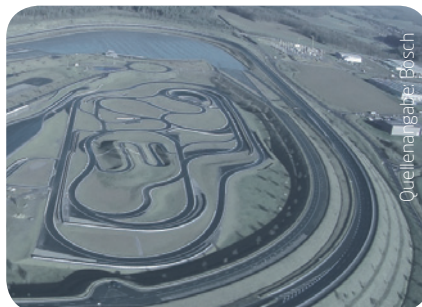
CAVE! makes your proving ground a safer place!

mm-lab

**Collision Awareness CAVE!**



CAVE! supports  
drivers in anticipating critical situations



CAVE! provides  
highest reliability



CAVE! minimizes  
driver distraction

# Because safety is paramount.

## mm-lab | **Collision Awareness CAVE!**



### What are the benefits?

- CAVE! supports the driver in avoiding collisions
- CAVE! assists during limited visibility, fatigue, distraction,...
- CAVE! substantially improves driver awareness
- CAVE! warns or alerts the driver only when hazard is determined
- CAVE! offers fully configurable warning levels (speed, distance,...) for each test module



### How does CAVE! work?

- high accuracy vehicle positioning with lane detection and vehicle maneuver prediction enabling very low false alarm rates
- real time situational analysis on basis of exactly captured reality
- audio visual warning and alerting of drivers depending on severity
- automatic quality monitoring detecting when CAVE! is not operational at the required precision



### What does CAVE! need?

- minimum set of PGMS functions and CAVE! software license
- public or private wireless networks which guarantee fast, reliable and secure communication with the Telematics server
- specially designed and optimized On-Board Units integrating communication, high accuracy positioning and alarm generation



### How does CAVE! fit into mm-lab's PGMS?

- CAVE! can be integrated into the PGMS like any other application
- CAVE! extends the PGMS safety capabilities particularly dedicated to collision awareness
- CAVE! is managed and monitored by PGMS as soon as it is part of PGMS
- CAVE! can also be operated as a standalone solution representing an entry-level PGMS scenario

Supported by:



on the basis of a decision  
by the German Bundestag