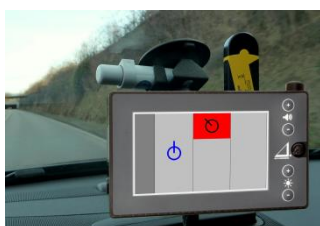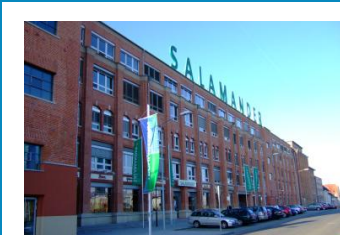# mm-lab

Collision Awareness

CAVE makes your proving ground a safer place !

■ **CAVE supports drivers in anticipating critical situations**
by looking around the corner

■ **CAVE provides highest reliability**
by applying lane detection and vehicle maneuver prediction

■ **CAVE minimizes driver distraction**
by using an On-Board Unit with audio-visual warning

■ **CAVE increases proving ground safety**
by virtually providing a clear picture even during limited visibility

Because safety is paramount

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 alarms the driver only when hazard is determined
- ✓ CAVE has fully configurable warning levels (speed, distance,…) for each test module

How does it 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 alarming of drivers depending on severity
- ✓ automatic quality monitoring detecting when it can not work correctly

What does it need?

- ✓ CAVE software license
- ✓ private wireless network with Telematics server for fast, reliable and secure communication
- ✓ specifically designed and optimized On-Board Units integrating communication, positioning and alarming

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

- ✓ CAVE is the safety watchdog of the proving ground
- ✓ PGMS manages the proving ground and monitors the safety
- ✓ CAVE can be operated standalone or fully integrated into PGMS

Supported by:

Federal Ministry
of Economics
and Technology

on the basis of a decision
by the German Bundestag