

ACTIVE SAFETY SIMULATION

LETS SAVE VIRTUAL LIVES



**YOUR GLOBAL MOBILITY
ENGINEERING EXPERTS**

Advanced driver assistance systems (ADAS) are becoming increasingly important when it comes to legal requirements and consumer protection standards, as Euro NCAP. Active safety functions are essential for ensuring market approval, competitiveness and customer acceptance.

As requirements become more complex, virtual simulation is the ideal way of guaranteeing the performance of the functions. It allows advanced driver assistance systems to be tested and adjusted during the vehicle development phase. It is also a way of gaining knowledge and optimisation potential relating to other areas, such as the chassis, at an early stage.

The advantages of simulating ADAS functions are reflected in the diversity and flexibility of possible scenarios, and also in the time and expense it saves. Using the appropriate simulation tools whatever test constellation is required can be set up very quickly, parameters adjusted as needed, and the scenarios virtually validated in a short period of time. Without any call for either hardware components or the use of a test site.

Range of services:

- Creation of the virtual vehicle type with individual parameters
- Simulation of relevant load cases and consumer protection scenarios
- Creating and carrying out customer-specific simulation scenarios
- Customer-specific evaluation of results
- Working out optimization potential
- Recommendation of adjustments to vehicle parameters
- Validation by means of vehicle testing

Complementary portfolio:

- Global requirements management
- ADAS system and component development
- Vehicle testing from preliminary development through to validation (incl. consumer protection)

Tools used:

- IPG Carmaker incl. MATLAB/Simulink and C

Who to contact

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