

PEDESTRIAN PROTECTION

FUNCTION DEVELOPMENT FROM A SINGLE SOURCE



**YOUR GLOBAL MOBILITY
ENGINEERING EXPERTS**

From virtual analysis to validation in real tests: We ensure that the streets become safer for pedestrians!

Cars stimulate emotions in us according to different aspects. Sometimes it is color, sometimes it is shape, sometimes it is performance and sometimes it is security.

As an experienced and independent engineering service provider in the global automotive industry, we know that vehicle safety is an important part of vehicle development. In pedestrian protection development, we offer all relevant services from **project management** to **simulation** and **testing**.



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**An overview of our services –
flexible and interdisciplinary!**

Project management and development

- Development of active and passive systems as well as sensor design
- Project and supplier management, development planning
- Strategy and target definition
- Component localization, support for type approval and certification

Simulation and validation

- Assessment of geometry and styling
- Test field determination in software Simulation and validation
- (Radioss, PAM-Crash, LS-Dyna, Abaqus)

Test validation in our test laboratories

- Coordination and execution of development and homologation tests
- 6 electromechanically driven test systems with movable portals
- Testing under climatic conditions in complete vehicle climatic chambers
- All pedestrian protection impactors (including aPLI) as well as fire and no-fire impactors for sensor protection available
- Individual test design for pre-development topics