



AZT Automotive GmbH | Allianz Center for Technology

The competence center for automotive technology

Competence center for automotive technology.

As the research institute of the Allianz, AZT Automotive GmbH studies current issues in the fields of automotive technology, repair technology and vehicle and road safety.

With our expertise, we help to ensure that road traffic is safer and that vehicle damage repairs are optimized and fairly settled for all parties involved.



Know-how – based on experience.

In 1971, Professor Max Danner founded the Institute for Motor Vehicle Technology under the umbrella of the existing Allianz Center for Technology – the forerunner of today's AZT Automotive GmbH.



Milestones of the last five decades

- Since 1973** Development of the AZT paint calculation system
- 1974** Establishment of the crash track
- 1970s/80s** The AZT makes a significant contribution to the introduction of mandatory seat belts
- 1982** Development of the crash repair test
- 1990s** Definition of the standard for the electronic immobilizer
- 2006** Development of the RCAR* bumper crash test
- 2017** Development of a RCAR test for emergency parking brake systems
- 2019** Development of an international standard for virtual vehicle keys



Innovation as a driver

"The central task of AZT is to recognize innovations in the automotive sector at an early stage and investigate their effects on road safety in general and on motor insurance. Therefore, we work together with experts from the automotive and repair industries, the scientific community and insurance to develop solutions."

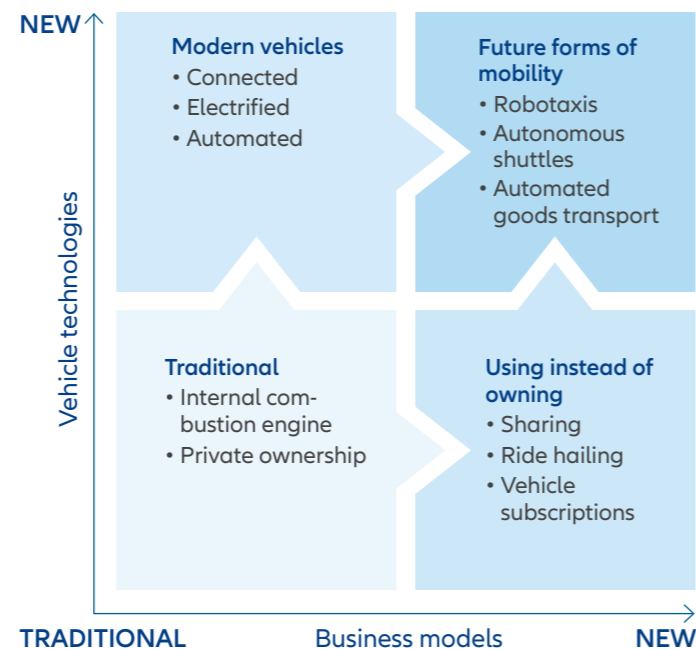
Dr. Christoph Lauterwasser
Managing Director AZT Automotive GmbH

* rcar.org

Recognizing trends. Driving innovation forward.

Automotive technology is characterized by rapid progress and dynamic developments.

The early recognition of trends and their implications for the Allianz lie at the very core of the AZT.



The AZT portfolio:



Repair & crash performance

Repair costs constitute a large portion of claims costs in motor insurance. The AZT investigates and supervises new developments in paint and bodywork repair with the aim of promoting professional, cost-effective repair solutions.

Together with automotive manufacturers, the development of crash-optimized, repair-friendly vehicles and the provision of professional and cost-reducing repair methods are promoted.



Driver assistance systems & automated driving

Driver assistance systems make a considerable contribution towards improving road safety. Based on real claims, the AZT carries out continuous prospective and retroactive evaluations of driver assistance systems and future automated driving functions.

These analyses make a significant contribution towards the inclusion of effective driver assistance systems in the calculation of insurance premiums in many countries.

The development and implementation of standardized test procedures also serve as drivers for the further development of such systems.



Vehicle data, connectivity & IT security

Modern cars have become highly complex, connected systems. Although this combination offers a diverse customer experience, it also gives rise to attacks to the internal vehicle network from the Internet.

The aim must be to guarantee IT security throughout the entire service life of the vehicle, which, from development to use, can span up to thirty years.

The AZT analyzes the implementation of security-critical networked systems, combining experience from real cases of damage with generic research approaches.



Electromobility

Global climate change also poses major challenges for the mobility sector, and alternative drives assume central

importance. Particularly in the areas of electric vehicles and electromobility, the AZT has engaged in close, cross-sector exchange for many years.

Work focuses on the technical evaluation of vehicles based on their crash performance and the analysis of insurance claims using statistical methods as part of accident research.



Road safety

Road traffic is a complex fabric of people, vehicles and the environment. The research and committee work of the AZT are geared towards this.

How can bicycle accidents be avoided? Why are older people more likely to die in road accidents? What makes trucks and goods vehicles safer when maneuvering?

The AZT confronts these challenges in research collaborations using broad-based methods. These include in-depth analyses of large claims databases, vehicle tests and survey studies. The results are also used in road safety reports and campaigns of the Allianz.

Ensuring knowledge transfer.



We share our knowledge

Right from the start, the AZT has always been dedicated to passing on its knowledge. Allianz colleagues in Germany and worldwide receive training in a wide range of formats. The AZT is also an active member of various interdisciplinary expert networks. In addition, we address the public through regular press events and road safety campaigns.



Collaboration worldwide.

We set standards

Together with local and international partners, for instance as part of RCAR, the AZT compiles research results and jointly establishes international standards, such as:





- Crash tests (RCAR* structure/bumper test/whiplash)
- Theft protection (electronic immobilizer, virtual vehicle key)
- Modern driver assistance systems (parking and maneuvering)



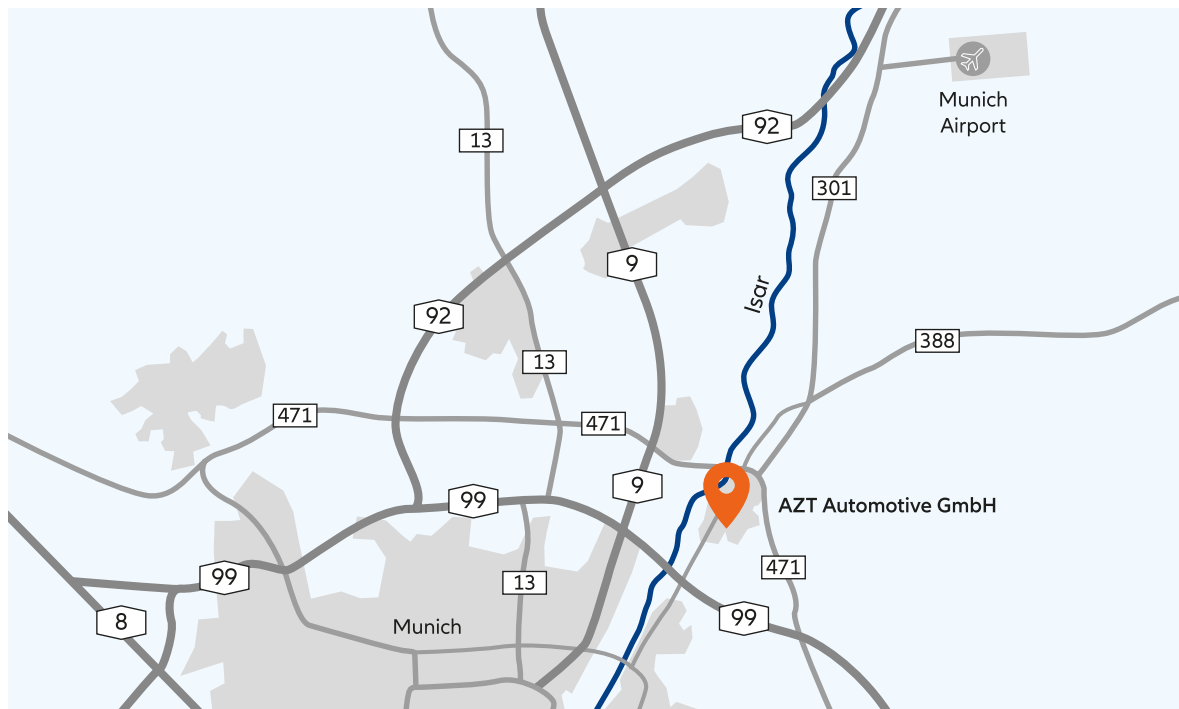
Guiding with experience.

Our customer-specific advisory services are built on many years of experience in collaborating with vehicle manufacturers in the area of vehicle type classification. Our services include crash performance, repair and calculation, claims management, statistical analyses, theft prevention, market standards and benchmarking.

Benefits for our customers:

 Detailed expertise on the German insurance classification system	 Comprehensive market knowledge	 Fifty years of experience in crash tests and repair standards	 Customized advice
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Contact us



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