A comprehensive approach to road safety – The example of Germany

Vehicle Related Measures

**ACTIVE SAFETY, PASSIVE SAFETY, TELEMATICS**

- **1993** Introduction of three point seat belt
- **1993** Introduction of airbag to protect passengers from head injury
- **1993** Commitment by original equipment manufacturing industry to equip all new cars with anti-lock braking system
- **2011** Mandatory introduction of side impact protection for passengers
- **2011** Mandatory introduction of headrests for front passenger cars
- **2010** Mandatory introduction of electronic stability control in all new cars
- **2010** Mandate for emergency call number 112

**FURTHER INFORMATION:**
- [Vehicle-related measures](https://example.com/vehicle-measures)
- [Further information on road safety](https://example.com/road-safety)

**Infrastructure Related Measures**

**ROADS, ROADS, ROAD CONSTRUCTION, MAINTENANCE**

- **2004** Introduction of additional signaling for pedestrians
- **2004** Introduction of signals for pedestrians at intersections
- **2004** Road safety audits for all new road projects
- **2004** Anti-lock braking system becomes mandatory for all new cars
- **2004** Extension of emergency call number 112 for road emergency services

**RESCUE SERVICES**

- **2004** First permanent HEMS (Helicopter Emergency Medical Services) based in Munich
- **2004** Introduction of emergency telephone number 112 for all road users
- **2004** First telecommunication infrastructure for emergency call number 112

**USER-RELATED MEASURES**

**TRAINING AND EDUCATION, TRAFFIC LAW**

- **1995** Use of seatbelt and helmet becomes compulsory
- **1995** Introduction of 10% speed limit outside of built-up areas
- **1980** Reduction of legal blood alcohol limit to 0.8‰
- **1975** Compulsory use of turn signal (blinking) in urban areas
- **1970** Introduction of the principle of defensive driving

**ORGANIZATION**

**PLANNING, FUNDING, CONTROLLING**

- **1960** University of Munich Transportation Planning Laboratory
- **1960** Foundation of the German Road and Transportation Research Association (FVFG)
- **1950** First publication of the German Road and Transportation Research Association (FVFG)

**VITAL STATISTICS**

- **1950** Total vehicle fleet: 3.5 Mio
- **1950** Number of fatalities: 2,719

**CHALLENGES AND OPPORTUNITIES**

- **2030** Increase in use of electric vehicles and autonomous driving
- **2050** Reduction in fatalities from 2,719 to 1,000

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For more information, visit the GIZ website: [example.com/giz](https://example.com/giz)