

A comprehensive approach for road safety – The example of Germany

User Related Measures

(TRAINING AND EDUCATION, TRAFFIC LAW, INCENTIVES, ENFORCEMENT)



1966	Introduction of a 1.3‰ legal blood alcohol limit
1970	Introduction of the principle of defensive driving
1970	Compulsory use of turn signal (blinking) in urban areas
1973	Revision of legal blood alcohol limit to 0.8‰
1974	Accumulating credit system for traffic offenses
1974	Introduction of recommended speed limit on motorways (Autobahnen) – 130 km/h
1975	Use of seatbelt and helmet becomes compulsory
1976	Introduction of 100 km/h speed limit outside of built-up areas
1980	Introduction of fines for riding motorcycles without helmet
1984	Introduction of fines for driving without fastened seatbelt
1986	2-year trial period for new drivers
1986	Minimum age for driving heavy motorbikes raised to 20 years
1988	Introduction of minimum distance to trucks and buses
1993	Mandatory use of child safety seats for children in cars
1995	Compulsory speed limit for vehicles that drive past standing buses (walking speed)
1998	Revision of legal blood alcohol limit to 0.5‰
2001	Introduction of fines for using mobile phones while driving
2007	Blood alcohol limit of 0.0‰ for novice drivers and persons under the age of 21
2010	Introduction of accompanied driving from the age of 17



Organization

(PLANNING, FINANCING, CONTROLLING)



1956	Regular Road Safety Inspection for roads becomes obligatory in road traffic regulations (VwV-StVO)
1961	Regular vehicle safety inspections (TÜV) become mandatory
1969	The German Road Safety Council (DVR) is founded, bundling the efforts of all parties involved in road safety in order to achieve efficient action
1969	Publication of the German Road and Transportation Research Association (FGSV) bulletin on local transport plans (introduction of accident analyses, consideration of non-motorized transport)
1971	Adoption of the Municipal Transport Financing Law, introducing federal financing schemes for urban transport and mandatory local transport plans
1979	Introduction of target-oriented transport planning instead of supply-oriented planning in guidelines for local transport plans
2002	Introduction of safety audits to avoid shortcomings with regard to road safety during the planning process
2008	Directive 2008/96/EC of the European Parliament and of the Council of 19 November 2008 on road infrastructure safety management
1973, 1984, 2001 and 2011	Road Safety Programmes of the Federal Government



The challenge of road safety

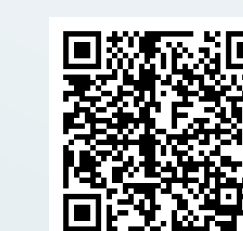
About 3,700 people die every day in road traffic accidents around the world. A further 50 million people are injured every year. Despite comparatively low levels of individual motorization, emerging economies and developing countries in Africa, the Middle East and Asia are particularly affected, with more than 90 per cent of traffic-related deaths occurring in these countries. By now, road accidents are the leading cause of death for children and young adults aged 5-29 years and have surpassed HIV, Malaria and tuberculosis as global health threats.

By launching the Decade of Action for Road Safety 2011-2020, the United Nations have called on the member states to step up their efforts to improve road safety. This infographic illustrates the comprehensive approach that Germany has taken as a response to sharply rising fatality rates since the 1950s. Along with many other European countries, Germany has succeeded in reducing fatalities significantly – thanks to a bundle of measures that can be replicated elsewhere.

Further information and the infographic as pdf



Our iNUA paper on Enhancing Road Safety



Imprint

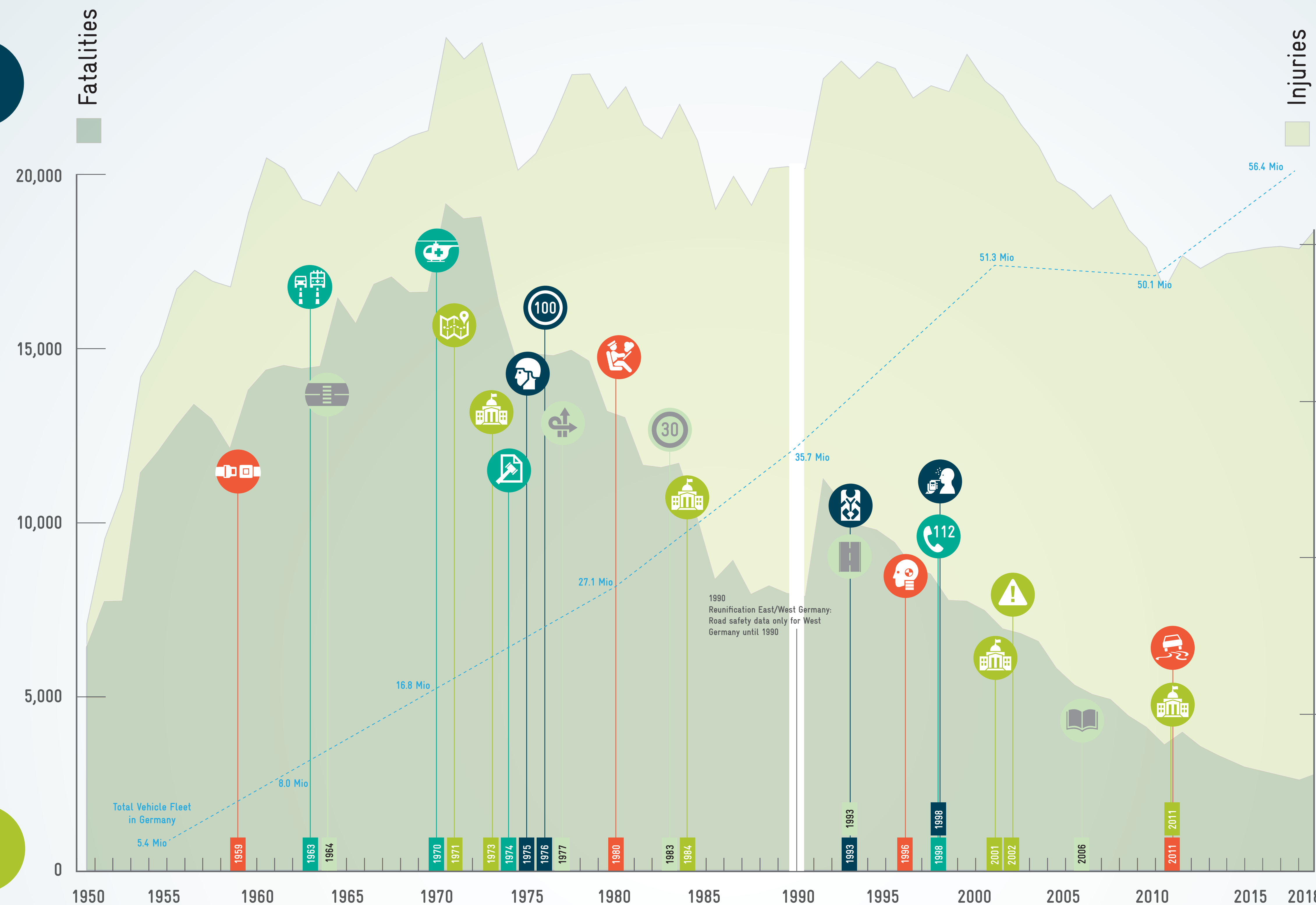
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Design: Julia Klasen
Concept & Editing: Dominik Schmid
Contact: transport@giz.de

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On behalf of

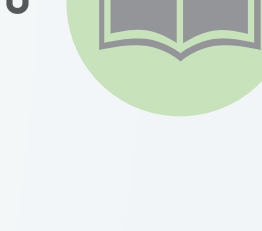
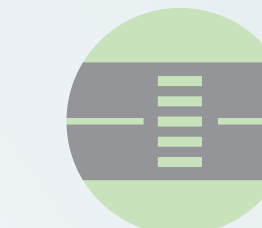


Infrastructure Related Measures

(ROAD DESIGN, ROAD CONSTRUCTION, MAINTENANCE)



1964	Introduction of zebra crossings for pedestrians
1973	Introduction of standards for geometric layout, gradients, cross sections and design speeds to be integrated into design guidelines
1977	Introduction of general principles of road network design, classification of roads according to road categories (i.e. interstate, arterial, collector, local) and connection type (urban vs rural, expected volume etc.)
1980	Introduction of zones with traffic calming („Spielstraßen“, or play streets), designed to be oriented towards pedestrians
1981	Publication of German Road and Transportation Research Association (FGSV) recommendations on traffic calming in residential areas
1982	Introduction of guidelines on cross-sections for roads (RAS-Q) including determining the dimensions of the roadway components based on physical and volume characteristics
1983	First trials for zones with 30 km/h speed limit in residential areas
1990	Increasing use of roundabouts as alternative form of intersection
1993	New design recommendations for urban main roads (including consideration of urban design and requirements of pedestrians and cyclists)
1995	Revised guidelines on road alignment including updates on overtaking sight distance requirements
1996	Introduction of 2+1 lane road design for high level rural roads to prevent overtaking accidents
2006	Introduction of concepts for self-explaining (i.e. standardized) roads and forging roadsides in design guidelines
2007	Dedicated recommendations on improving road safety on popular motorbike routes through improved road design and enforcement measures
2008	First shared space project in Germany (City of Bohmte)
2011	Introduction of „Design for All“ principle to provide accessible transportation facilities (HBVA)



Rescue Services

(ALERT, RESCUE)



1963	The emergency corridor is introduced. In case of congestion, drivers have to form a corridor for emergency vehicles to access a potential accident.
1970	First permanent HEMS (Helicopter Emergency Medical Services) base is established in Munich
1971	Introduction of emergency telephones along highways and major roads
1973	Introduction of country-wide emergency call numbers 110 (police) and 112 (fire brigade), although regional numbers for EMS continue to exist
1974	First EMS law introduced in the Federal State of Bavaria, outlining requirements for staff, equipment and response times. Other federal states follow soon.
1998	EU-wide mandatory introduction of emergency call number 112 for EMS
2018	Mandatory introduction of the automatic emergency call system eCall, which automatically dials 112 and sends the location in case of an emergency for all new cars in the EU
2018	All new heavy-goods vehicles have to be equipped with emergency braking systems