





Guidelines to Improve Road Infrastructure for Powered Two Wheelers MVMot 2021 Dipl.-Phys. Rolf Frieling Biker Union e. V., Eschborn / MID Motorrad Initiative Deutschland e.V., Hamburg







Agenda

- 1. Setting the Scene
- 2. Motorcycle Safety in Germany
- 3. MVMot 2007 / MVMot 2021
- 4. Conclusions and Recommendations









Powered Two Wheelers (PTW) in Germany

• about 4,5 M. registered motorcycles



- about 2,0 M. PTW with insurance plates (< 125 cc)
 - ⇒ more than 5 M. riders (m/f) of mofas, mopeds, scooters and motorcycles













Characteristics of the Rider's Community in Germany

- Motorcyclists are distinct individualists
- Nevertheless, they often meet
 - for joint rides
 - at scenic roads and places



- Low degree of organization in riders' interest groups working nationwide (on a honorary basis)
- Social Media as means of communication especially for non-organised riders









Biker Union e.V.

- Biggest riders' interests organization in Germany
- Founded in 1986
- App. 3.800 members nationwide
- 11 regional offices and app. 50 "BU-Stammtische" as local contact points located in almost every federal state
- Independent from political parties and other political groups
- No commercial interests













Main Areas of Activities

- Representation of riders' interests
 - Lobbying
 - Cooperation with authorities, institutions and different bodies
 - Advisory function in research projects
 - Participation in legislation processes
- Improvement of rider's image
- Fight against discrimination
- Road safety











National and international Cooperation

 MID Motorrad Initiative Deutschland e.V., the coordination body of German riders' organizations



- Bundesarbeitsgemeinschaft Motorrad (BAGMO), the "Round Table" of the German motorcycle community
- FEMA, the Federation of European Motorcyclists' Associations, located in Brussels (22 national organizations out of 16 European countries)













Current political Issues

- PTW as an environmental-friendly alternative for individual mobility
- Motorcycle-friendly road infrastructure (e.g. road maintenance and repair, guardrails, roadside obstacles)
- Road bans for motorcycles
- PTW as a part of intelligent transport systems













Road Safety Activities

- Influence on "high-risk takers" ("speed freaks are no heroes")
- Long-standing cooperation with the police and other institutions in local road safety campaigns and events
- Close cooperation with the German Road Safety Council (DVR) in their national campaign "Runter vom Gas"

("Slow down")









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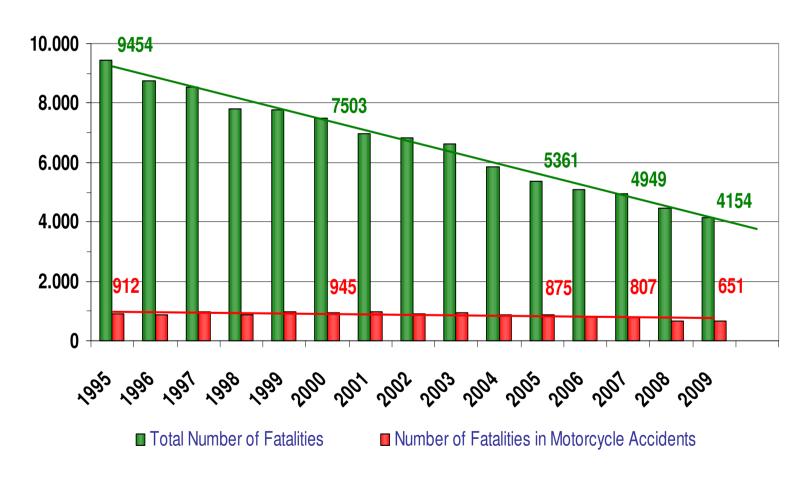








Development of Road Casualties (1)



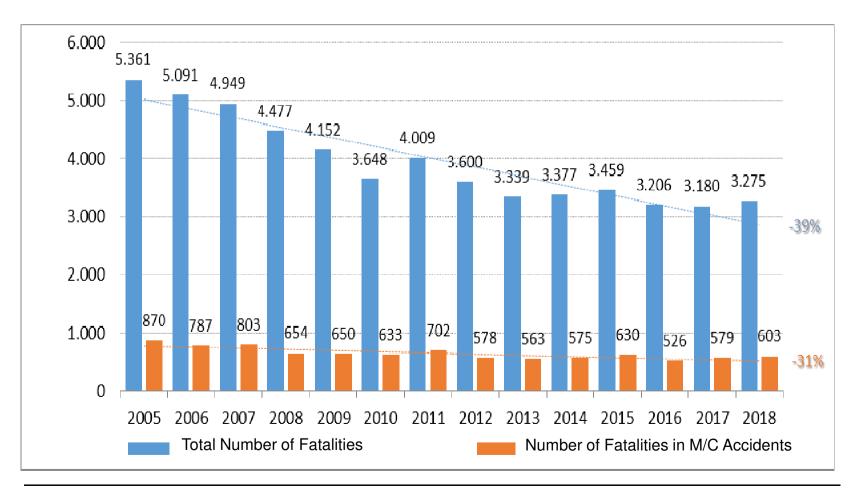








Development of Road Casualties (2)



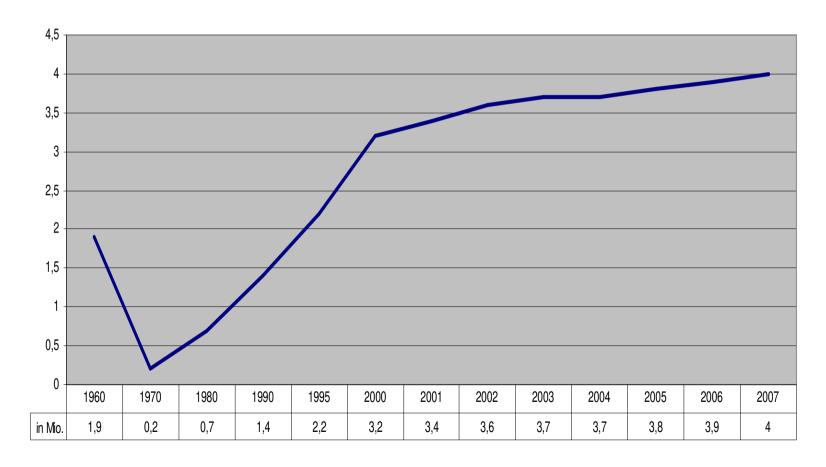








Motorcycle Parc Figures (registered Motorcycles only)









Conclusions

- The number of road casualties is decreasing in Germany
- The number of motorcycle casualties is also decreasing
- The "risk of motorcycling" (casualties vs. circulating parc) is significantly decreasing
- But ...









Looking at relative Figures



about every 10th killed ... (912 / 9.454)

2018:

about every 5th killed ... (603 / 3.275)

... was a rider or a pillion rider (m/f)

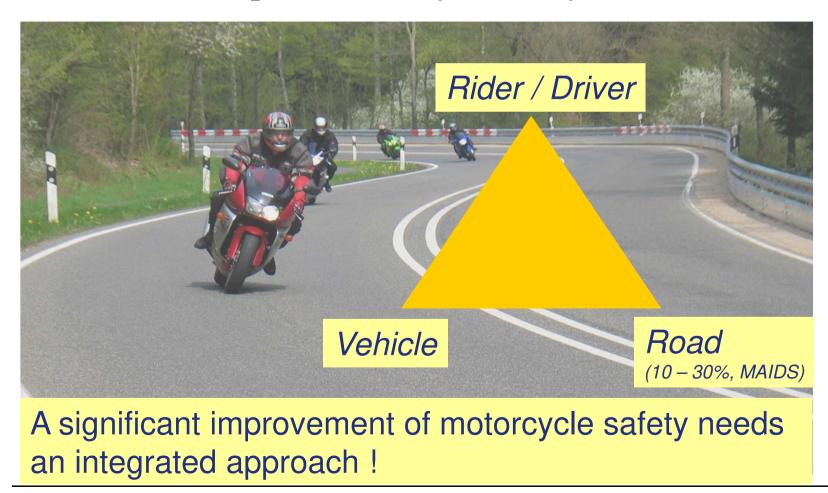








Parameters to improve Motorcycle Safety









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Working Group "Motorcycle Accidents" (MVMot 2007)

- Established in 2003 by the German Road and Transportation Research Association (FGSV)
- Representatives from
 - Federal States Road Authorities,
 - Police,
 - Road Safety Institutions,
 - Universities,
 - Road Engineering Offices and
 - Riders' Organizations
- Mission: to develop "guidelines" to increase motorcycle safety by an improved road infrastructure in Germany







Working Method

- Evaluation of studies and related documents
- Preparation and analysis of accident statistics
- Gathering of "best practises" at national and international level
- Development of a process to improve road infrastructure
- Searching for "best practice" pictures as examples









The Results

- "Leaflet to Improve Road Safety at Motorcycle Roads" (MVMot 2007)
- Presented at a national conference in Oktober 2007
- Implemented in many of the German federal states by decree or formal instruction
- Promoted at national and regional conferences for road engineers and members of road safety commissions













Working Group "Motorcycle Safety" (MVMot 2021)

- (Re-)Established in 2011 by the German Road and Transportation Research Association (FGSV)
- In principle the same participants
- Mission:
 - Review the implementation process of MVMot 2007
 - Review the success of implemented measures
 - Identification of gaps and deficiencies
 - Delivery of an updated MVMot in line with all current regulations







Main Focus of MVMot

- To avoid PTW accidents
- To reduce the consequences of PTW accidents
- Roads with "black spots" especially for PTW
- Different needs of PTW riders compared to car and truck drivers
- MVMot 2007: Rural roads with a high share of motorcycle traffic (so called "Motorcycle Roads")
- MVMot 2021: all roads including roads in urban areas

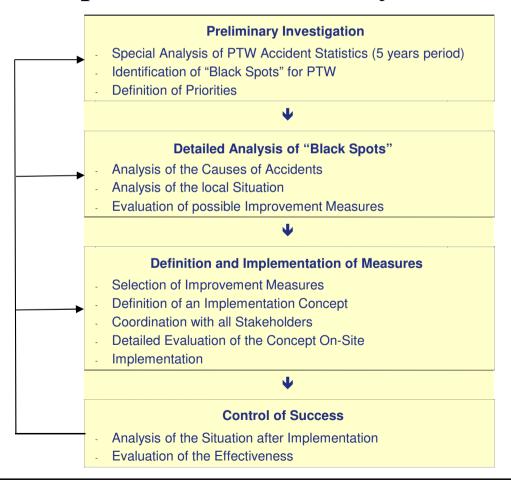








"Process of Improvement" defined by MVMot 2021











Proposed Safety Measures (Examples)



Guide posts concentrated















Proposed Safety Measures (Examples)



Flexible signs instead of metal signs



Dispersed signs behind a guardrail



Obstructed view to be cleared







Advantages of the MVMot

- Definition of a process to improve road infrastructure to be performed on a regular basis
- The need to control the success of every package of measures
- The close cooperation of experts with different backgrounds, different views and a broad spectrum of experience
- The integration of the rider's perspective and their practical experience









Current state of MVMot 2021

- Presentation of the "final" draft version in February 2017
- Review by the different bodies within FGSV, the relevant authorities of the federal states and the Federal Ministry of Transport
- Signature of the official publication letter ("ASR") by the Federal Ministry of Transport beginning of May 2021
- Publication of the printed version last week; mission accomplished







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Conclusions (1)

- PTW are one of the most fascinating means of transport today
- PTW are no cars with two wheels!
- Awareness of risk and thinking ahead are <u>the</u> survival strategy of any PTW rider
- However, not every rider sticks to the rule "Don't drive faster than your guardian angel is able to fly"









Conclusions (2)

- A sustainable improvement of motorcycle safety needs an integrated approach and is a common responsibility
- Forgiving roads and forgiving roadsides especially in curves are an important part of that integrated approach
- Law enforcement measures have only limited effects to increase road safety; after a short period of time the accidents are taking place at neighbouring roads









A sustainable improvement of road safety can only be achieved in close cooperation of all stakeholders!

Motorcyclists' Organizations <u>have to be</u> an integral part of these activities!









We are the experts in all PTW related issues

We have a lot of experience to properly assess the effectiveness of road safety measures for PTW

We have direct access to the target group and communicate on a peer-to-peer level









Motorcyclists' organizations accept their responsibility and are willing to play their part – despite limited resources in honorary organizations

Benefit from our experience; involve us in your projects at an early stage!





Die Interessenvertretung für Biker, Rocker und Motorradfahrer



