



## Road Governance & Its Impact on Road Safety : Achieving UN Decade of Action's Road Safety Targets 2017 May 3rd to 7th

### Police officers as coordinating points for traffic safety

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# Outline

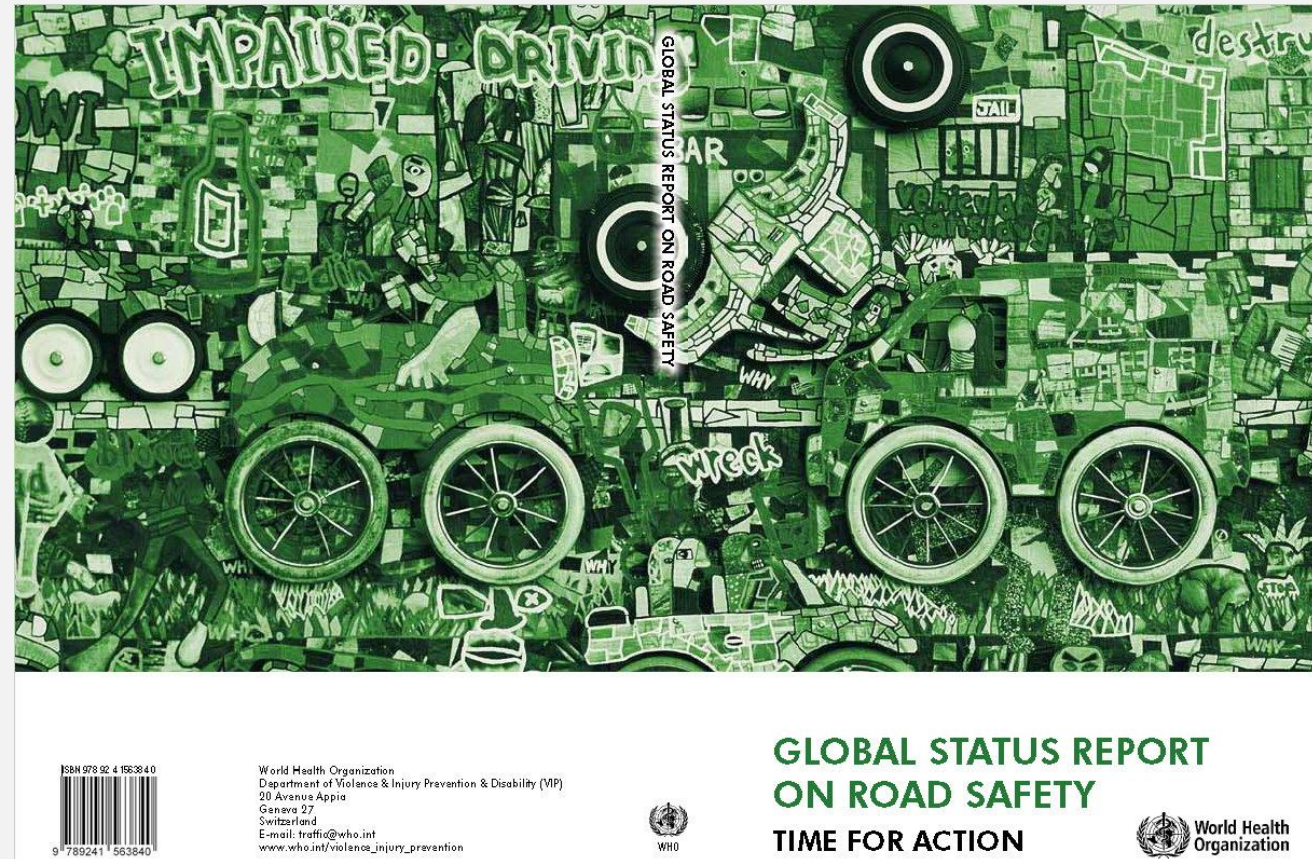
1. Leading cause of death = Road traffic injuries
2. First problem of road safety = The driver
3. How to solve the problem by training police staff
4. Training goals for police
5. Road traffic law
6. Road traffic medicine
7. Road traffic psychology
8. Practical police work
9. Schedule of a one week training workshop
10. Source literature



# Leading cause of death = Road traffic injuries

# Fight against road traffic injuries will save lives

(WHO, Global Status report  
on road safety, 2015)



# Leading cause of death = Road traffic injuries

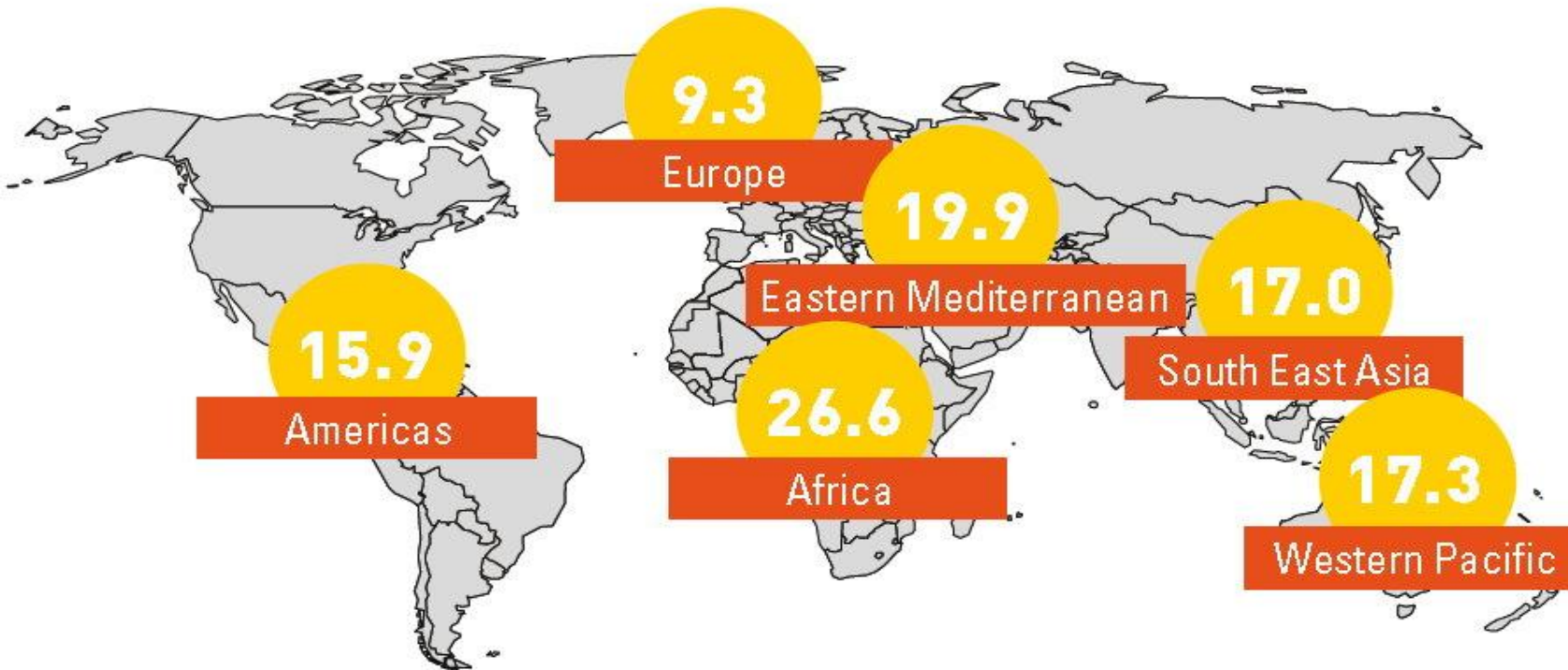
Table 1. Leading causes of death by age, world, 2004

RANK	0–4 YRS	5–14 YRS	15–29 YRS	30–44 YRS	45–69 YRS	70 + YRS	TOTAL
<b>1</b>	Perinatal causes	Lower respiratory infections	Road traffic injuries	HIV/AIDS	Ischaemic heart disease	Ischaemic heart disease	Ischaemic heart disease
<b>2</b>	Lower respiratory infections	Road traffic injuries	HIV/AIDS	Tuberculosis	Cerebrovascular disease	Cerebrovascular disease	Cerebrovascular disease
<b>3</b>	Diarrhoeal diseases	Malaria	Tuberculosis	Road traffic injuries	HIV/AIDS	Chronic obstructive pulmonary disease	Lower respiratory infections
<b>4</b>	Malaria	Drownings	Violence	Ischaemic heart disease	Tuberculosis	Lower respiratory infections	Perinatal causes
<b>5</b>	Measles	Meningitis	Self-inflicted injuries	Self-inflicted injuries	Chronic obstructive pulmonary disease	Trachea, bronchus, lung cancers	Chronic obstructive pulmonary disease
<b>6</b>	Congenital anomalies	Diarrhoeal diseases	Lower respiratory infections	Violence	Trachea, bronchus, lung cancers	Diabetes mellitus	Diarrhoeal diseases
<b>7</b>	HIV/AIDS	HIV/AIDS	Drownings	Lower respiratory infections	Cirrhosis of the liver	Hypertensive heart disease	HIV/AIDS
<b>8</b>	Whooping cough	Tuberculosis	Fires	Cerebrovascular disease	Road traffic injuries	Stomach cancer	Tuberculosis
<b>9</b>	Meningitis	Protein–energy malnutrition	War and conflict	Cirrhosis of the liver	Lower respiratory infections	Colon and rectum cancers	Trachea, bronchus, lung cancers
<b>10</b>	Tetanus	Fires	Maternal haemorrhage	Poisonings	Diabetes mellitus	Nephritis and nephrosis	Road traffic injuries



# Leading cause of death = Road traffic injuries

**The chance of dying in a road traffic crash depends on where you live**



Road traffic fatalities per 100 000 population



**49%**  
of all road traffic deaths  
are among pedestrians,  
cyclists and motorcycles.

# First problem of road safety = The driver



Faults in  
driving



Violations

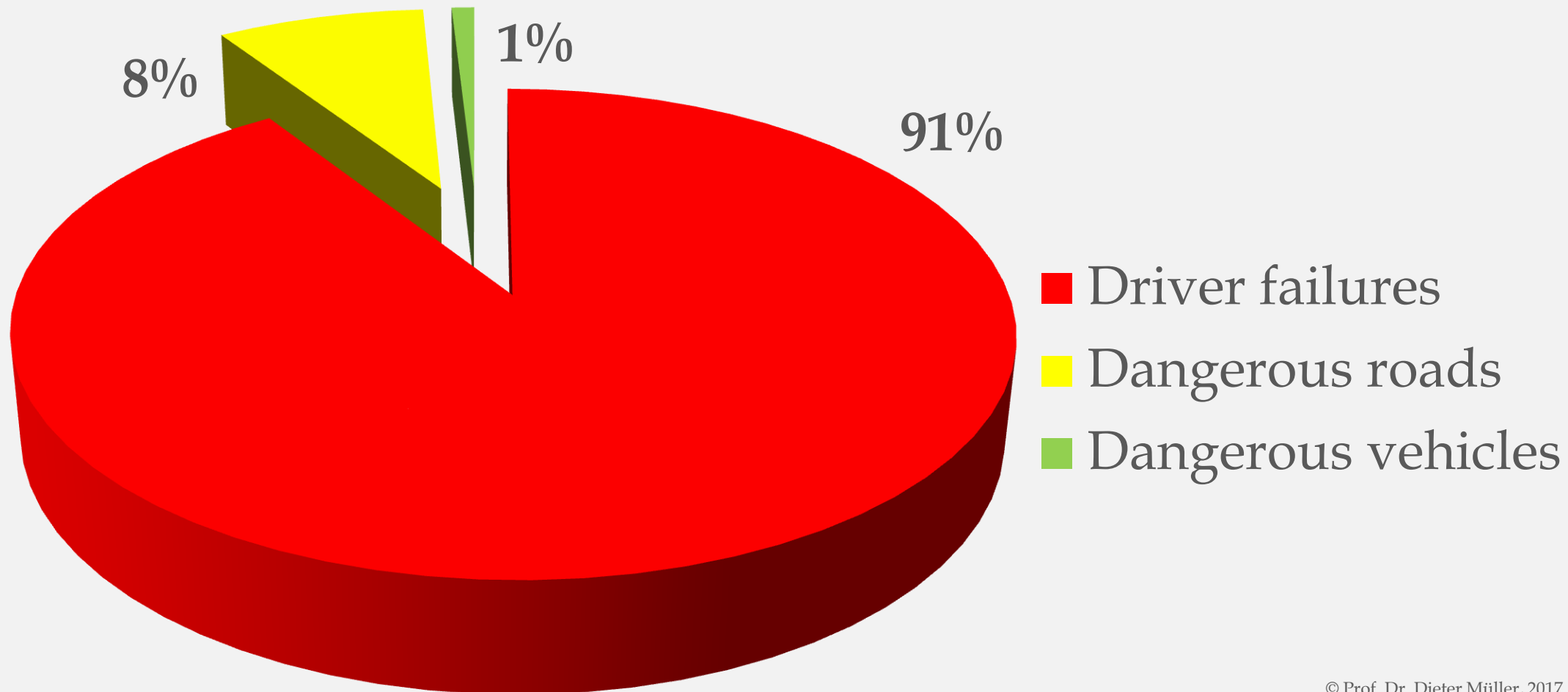


Accidents

# First problem of road safety = The driver

## German data

Main causes for car crashes with injured people in Germany 2015



# First problem of road safety = The driver

## German data

Police reported obviously driver failures for accidents with injured people (Germany)	2012	2013	2014	2015
<b>Speeding</b>	<b>49.274 (3.)</b>	<b>48.730 (3.)</b>	45.888 (4.)	47.024 (4.)
<b>Fail to turn right or left, improper u-turn, leaving a parking position</b>	<b>57.512 (1.)</b>	<b>55.480 (1.)</b>	<b>58.178 (1.)</b>	<b>57.975 (1.)</b>
<b>Fail to stop</b>	<b>53.546 (2.)</b>	<b>51.055 (2.)</b>	<b>53.947 (2.)</b>	<b>53.361 (2.)</b>
Tailgating	44.468 (4.)	45.735 (4.)	<b>49.522 (3.)</b>	<b>50.667 (3.)</b>
Wrong side of the street	25.966	24.032	24.997	24.763
Wrong behaviour to pedestrians	16.498	16.232	15.979	16.629
Drunk and drug driving	14.380	13.327	13.011	12.660



How to solve the problem ...

**Education**

**Enforcement**

**Toward Vision Zero**

**Engineering**

**Public relation**

# How to solve the problem ...

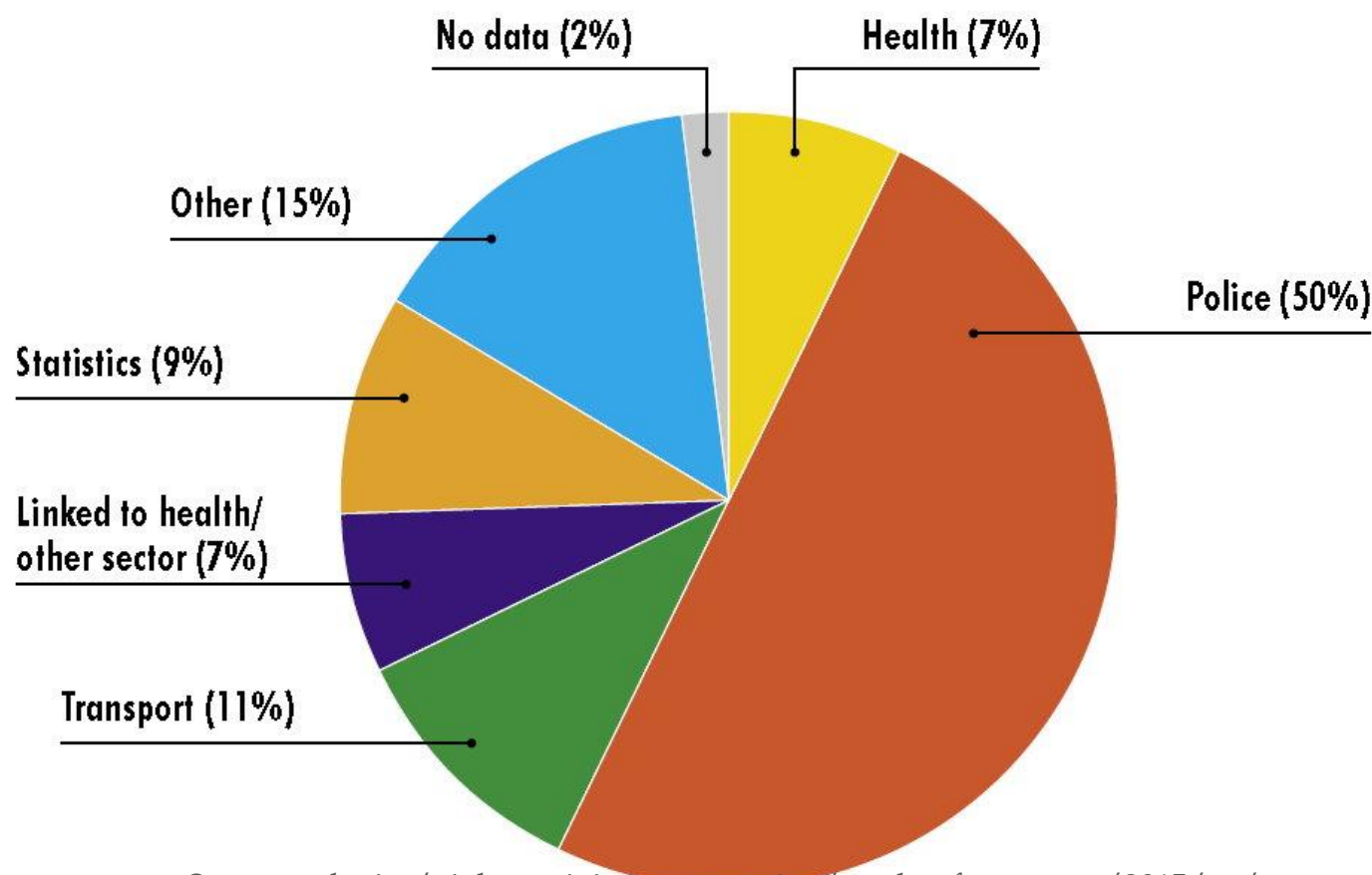
What is necessary  
to solve the  
problem of traffic  
safety?

**We need data!**

Who should have  
the data?

**The police!**

Figure 12. Proportion of countries using different data sources for road traffic fatalities



# How to solve the problem ...



© PD Stefan Pfeiffer, 2017

© PD Fritz Schopf, 2017



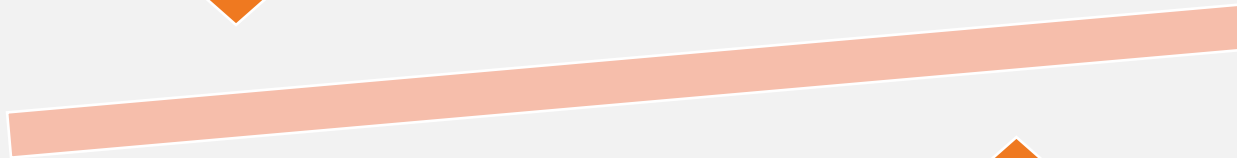
# Same problem, different conditions ...



# How to solve the problem ...



We need  
training  
programmes  
for police  
officers



Well trained  
police officers  
are able to find  
the causes for  
car crashes



How to solve the problem ...

Traffic enforcement is an  
important part of integrated  
traffic safety work!  
In the middle = police officers



# Training goals for police officers

## Police officers in general must have the knowledge of...

1. Road traffic law (enforcement approaches and tools, accident examination etc.)
2. Basics of road traffic medicine (how to get information about health status of drivers)
3. Basics of road traffic psychology (how to get information about reasons of driver behaviour)
4. Exercises in practical integrated police work

# German road traffic law

## Article 2 German Constitution

- Protects
- 1. Life
- 2. Physical integrity

## The state is responsible

- Protective work for people's health
- With his whole staff and all institutions

# German road traffic law

Most important road traffic law is the **German Road Traffic Act (StVG)** with rules for ...

1. Driving licence
2. Car licence
3. Important traffic crimes and offences
4. Driver assessment system
5. Penalty point system



# German road traffic law



Road Traffic Act (StVG)

Driving Licence Regulation (FeV)

Vehicle Registration Regulation (FZV)

Road Traffic Regulation (StVO)

Schedule of Fines (BKatV)

# Obligation message

## § 2 Abs. 12 German road traffic act

### **Obligation message from police to local authority (department of driving license)**

**Information about consuming illegal drugs**

**Information about possession of illegal drugs**

**Information about alcohol misuse or abuse**

**Information about aggressive behaviour**

**Information about driving relevant diseases**

# Obligation message

## § 2 Abs. 12 German road traffic act

### Police finding of ...

Enforcement



- Obligation message

Accident engineering



- Obligation message

Other policing activities



- Obligation message



# German road traffic law

Local  
authority  
Department  
for driving  
license

- 1. Penalty point system
- 2. Enforce driver fitness

Medical or  
medical-  
psychological  
assessment

- Risky drivers
- Impaired drivers
- Drivers with road safety related disease

Lack of legislation = Lack of police working abilities

In many of the worlds countries we have a lack of legislation in ...

- Drink-driving and drug-driving laws (alcohol 0,2 g/dl for novice drivers and 0,5 g/dl for all drivers, 0 ng/ml drugs)
- Rules for speed limits in urban areas
- Rules of wearing seat-belts
- Rules of wearing motorcycle-helmets
- Demerit or counting penalty point systems



Lack of legislation = Lack of police working abilities

**In Germany we have a lack of enforcing the existing legislation because ...**

- not sufficient police officers, prosecutors and judges
- the lowest level of penalties for offences in Europe
- very low level of penalties for crimes on the streets because of too liberal judges



Lack of legislation = Lack of police working abilities

But ... police officers are only able to enforce  
existing law ...

Therefore the politicians in the parliaments  
are required to set useful law for traffic  
safety!



# Road traffic law

**Police officers in road traffic law must have the basic knowledge of...**

1. Rules of traffic violations, crimes and offences
2. Rules of driver behaviour
3. Rules to stop the drivers
4. Rules to examine the drivers fitness
5. Rules of working together with local authorities
6. Rules of working together with prosecutors and judges

# Road traffic medicine

**Police officers in medicine must have the basic knowledge of...**

Medical conditions of driving, which depends on:

1. Vision and hearing
2. Attention and concentration
3. Memory and good reaction time
4. Muscle power and control
5. Cardiology, neurology, psychiatry, diabetes, substance misuse and dependence
6. Especially senior and disabled drivers

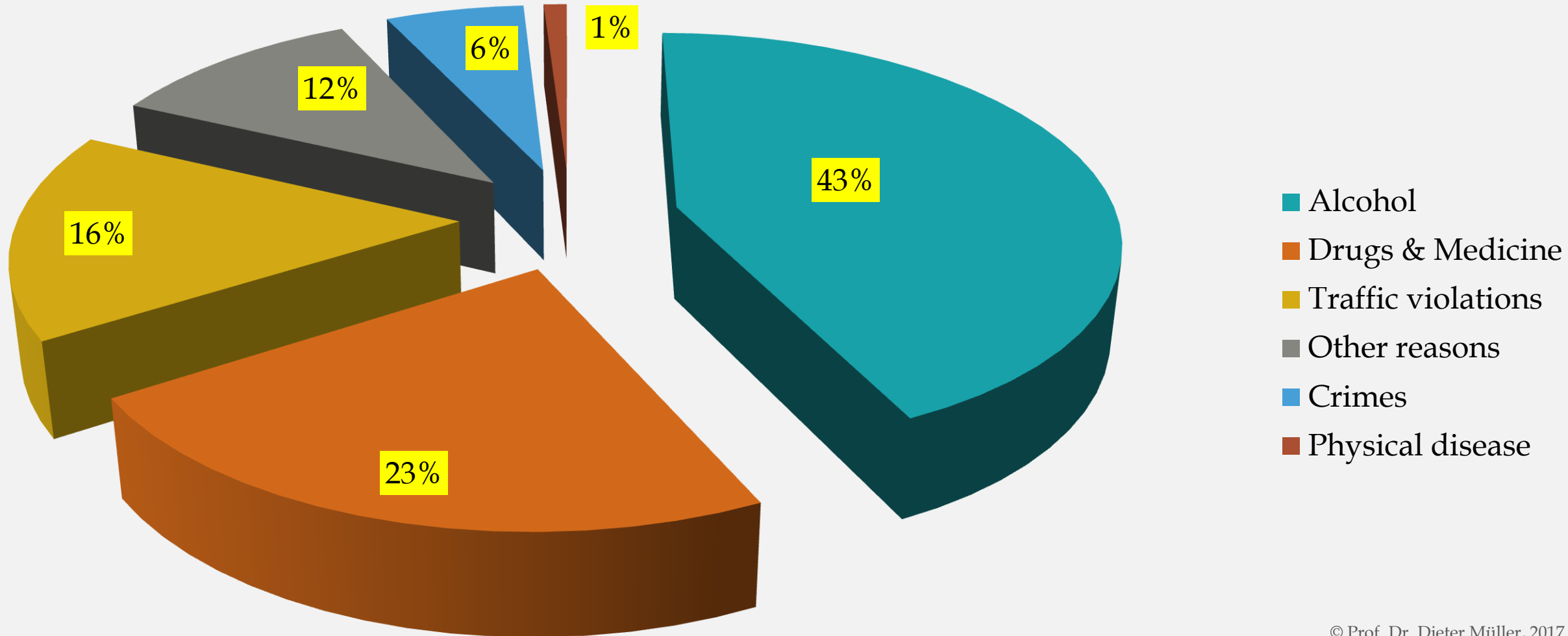
# Road traffic psychology

**Police officers in traffic psychology must have the basic knowledge of...**

1. Insight and understanding of driving process
2. Judgement and decision of driving
3. Planning and organisation of driving
4. Ability to self-monitor the driving abilities
5. Sensation seeking and risky driving

# Road traffic psychology

## German medical-psychological Assessment-System 2015





# Road traffic psychology

- In Germany **95.262** German people lost their driving licence in 2015
- **12.658** people of other nations lost their right to drive in Germany
- Half of them all because of negative medical-psychological assessment
- Reason = lost fitness to drive

# Road traffic psychology

Emphasis has to be put on the causes for speeding, drink driving, non-use of personal safety devices and „aggressive“ driving.

# Practical police work

**Police officers in practical police work must have the basic knowledge of...**

1. Various traffic enforcement practices and initiatives
2. High subjective detection probabilities
3. Find the cause for accidents behind the obviously cause (for example the motivation for speeding or drunk-driving)
4. Working together with other authorities and justice departments effectively

# Practical police work

Every police department is asked to deploy a special group of officers focused on fighting the scourge of impaired and risky driving.

These activities should have a significant impact to discover and prevent dangerous driving.



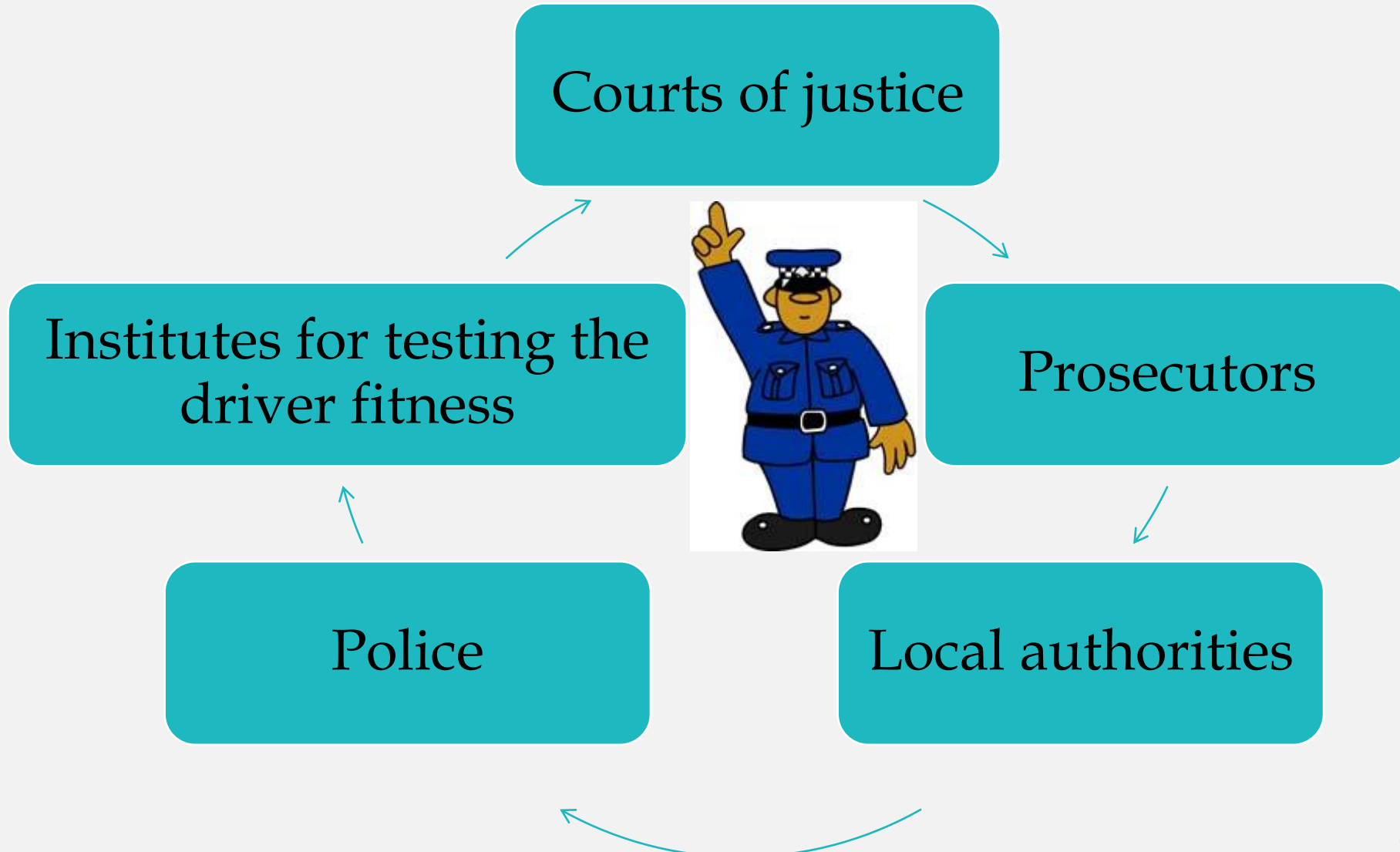
# Practical police work

The main question is:

What would happen to accidents if certain causes for accidents would be examined and eliminated through more or better police enforcement ?



# Practical police work is teamwork



# Schedule of one week training workshop

## Teachers and Trainers:

1. Medical doctor
2. Three traffic psychologists
3. Two senior police officers
4. Driving teacher
5. Assistant of local authority
6. Prosecutor
7. Lawyer
8. Lecturer for road traffic law





# Schedule of one week training workshop

## Schedule for 39 lessons (to 45 Min.) in five days:

1. Medicine – 9 lessons (1 practical)
2. Psychology – 9 lessons (1 practical)
3. Road traffic law – 8 lessons
4. Practical law – 7 lessons
5. Practical police work – 3 lessons
6. Driving school – 3 lessons (2 practical)

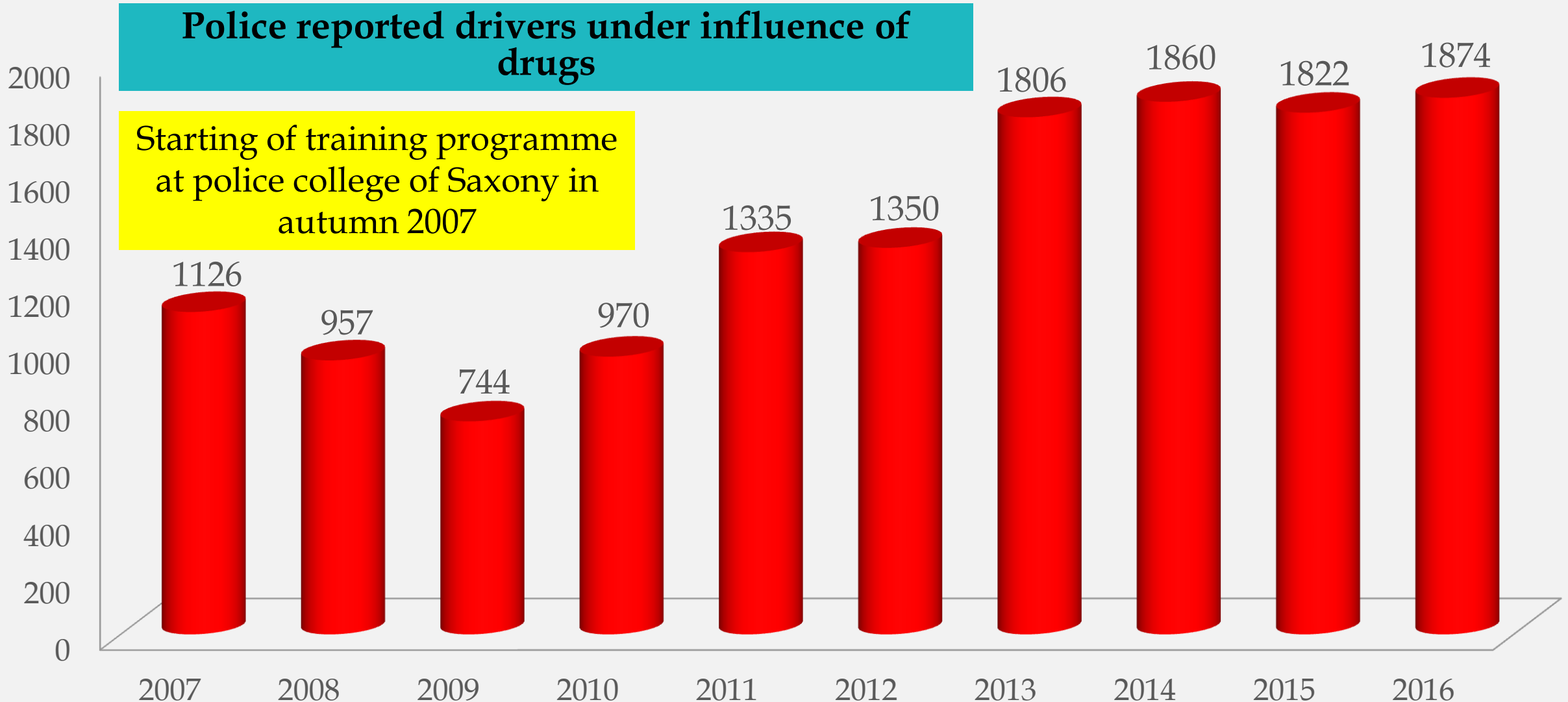




# Drug driving in German member state Saxony

## Proof of helpful police training programme

Source:  
VPS Saxony



# Road traffic safety and police work

It is essential that each police organization all over the world's countries have in place policies and procedures that support the application of the skills and knowledge that police acquire to detect risky and impaired drivers through special education and training.

# Road traffic safety and police work

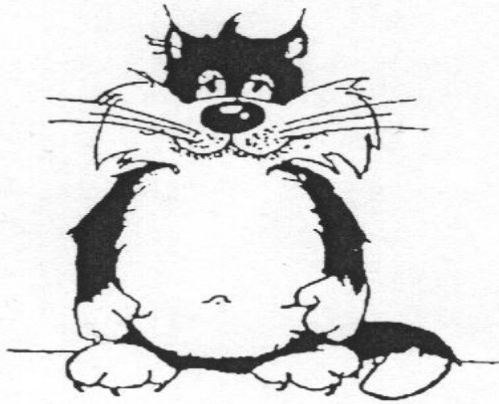
Well trained police officers could be very helpful to fight against main causes of road deaths effectively!



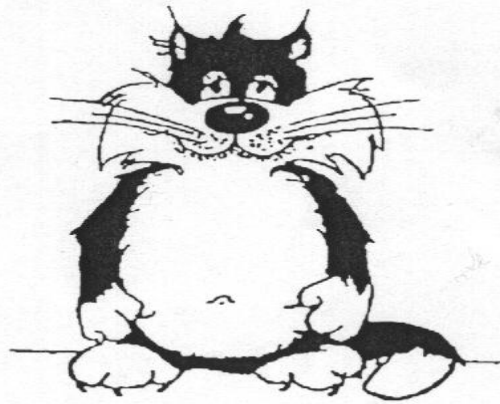
Nobody is perfect, ...  
not even in work for road  
traffic safety!  
So let's work together,  
to improve traffic safety ...  
... all over the world.



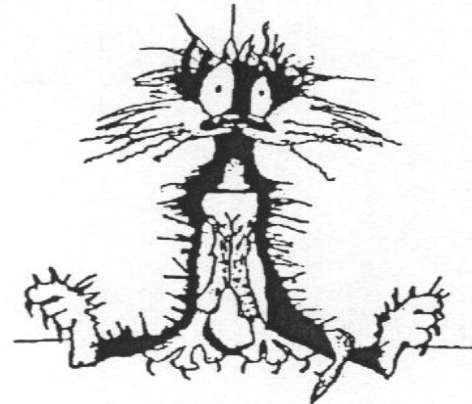
# Before and after work – and what is your stress level?



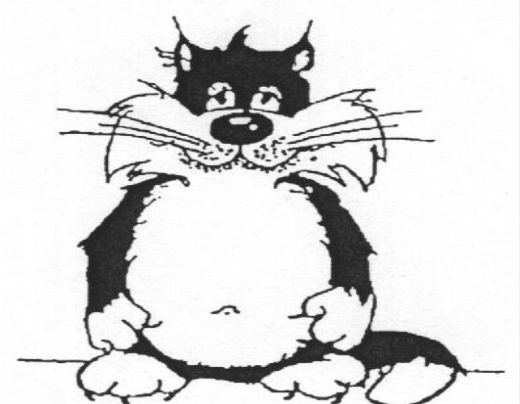
BEFORE WORK



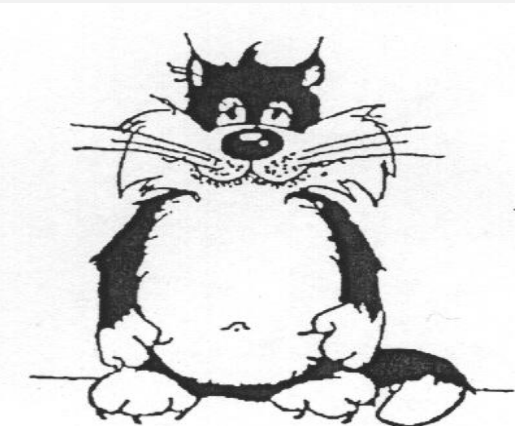
AFTER WORK



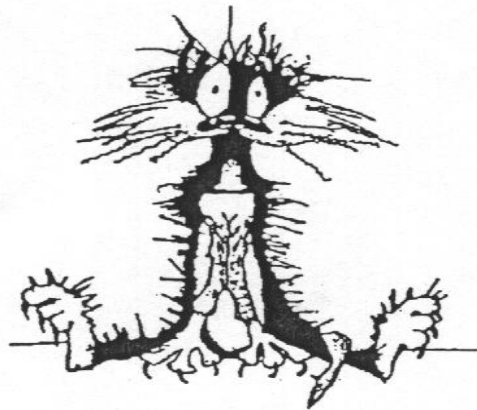
BEFORE WORK



AFTER WORK



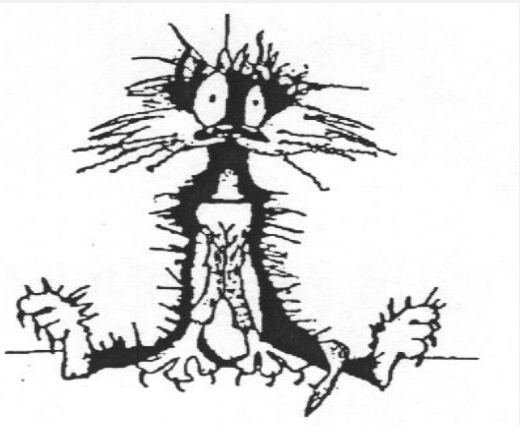
BEFORE WORK



AFTER WORK



BEFORE WORK



AFTER WORK



# Source literature

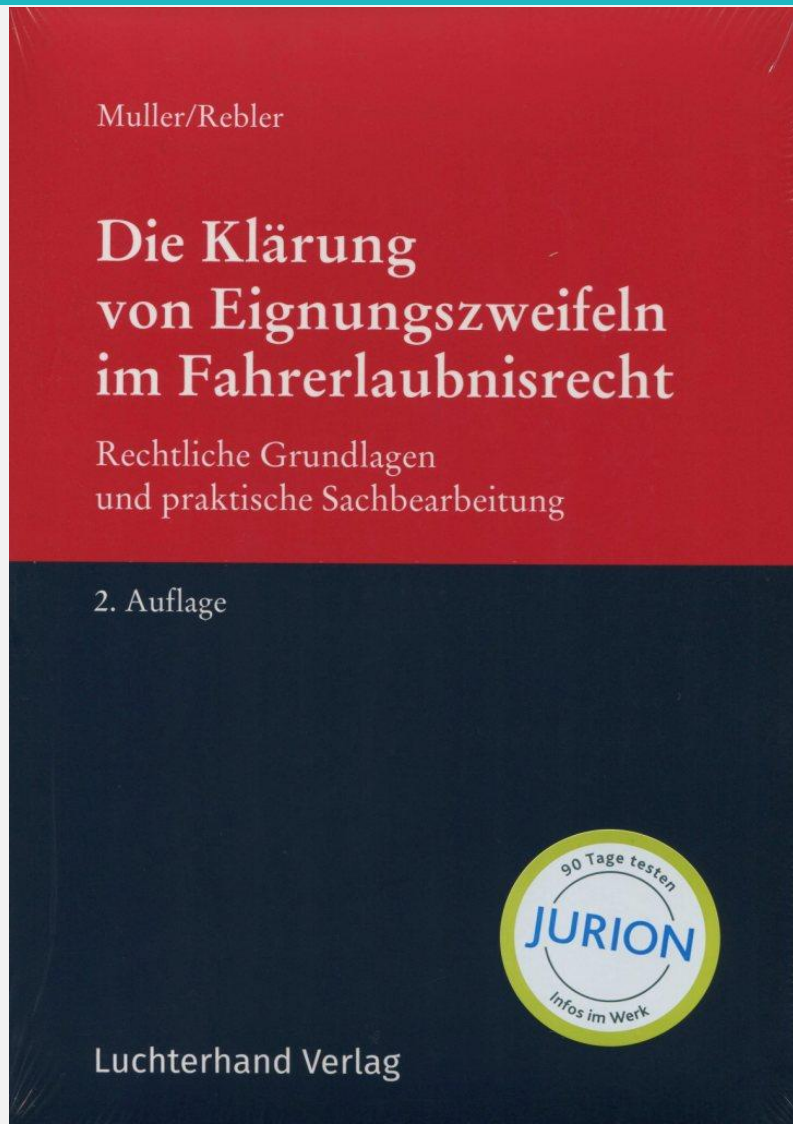
1. [http://apps.who.int/iris/bitstream/10665/44122/1/9789241563840\\_eng.pdf](http://apps.who.int/iris/bitstream/10665/44122/1/9789241563840_eng.pdf)
2. <https://www.nhtsa.gov/sites/nhtsa.dot.gov/files/100carphase1report.pdf>
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