EDDA+ project presentation

Excellence in Road Safety Awards 2022

Award submission

Platform:

dangerspots!org

funded by:

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Instruments in road safety work

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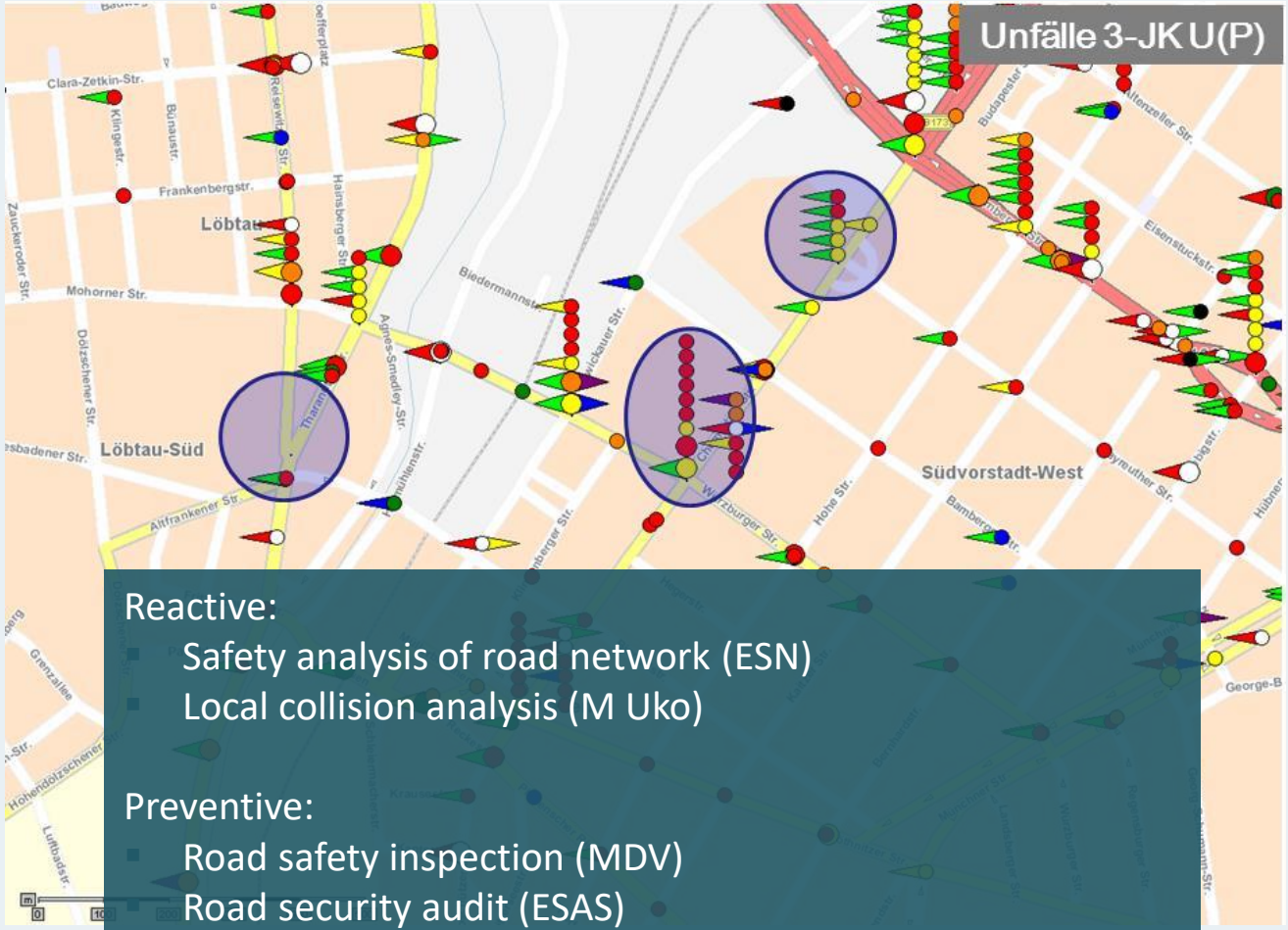

Reactive:
- Safety analysis of road network (ESN)
- Local collision analysis (M Uko)

Preventive:
- Road safety inspection (MDV)
- Road security audit (ESAS)

„Why wait for a crash“, Aachener Zeitung (German Newspaper)

- Proactive analysis of “blackspots” (EU)*

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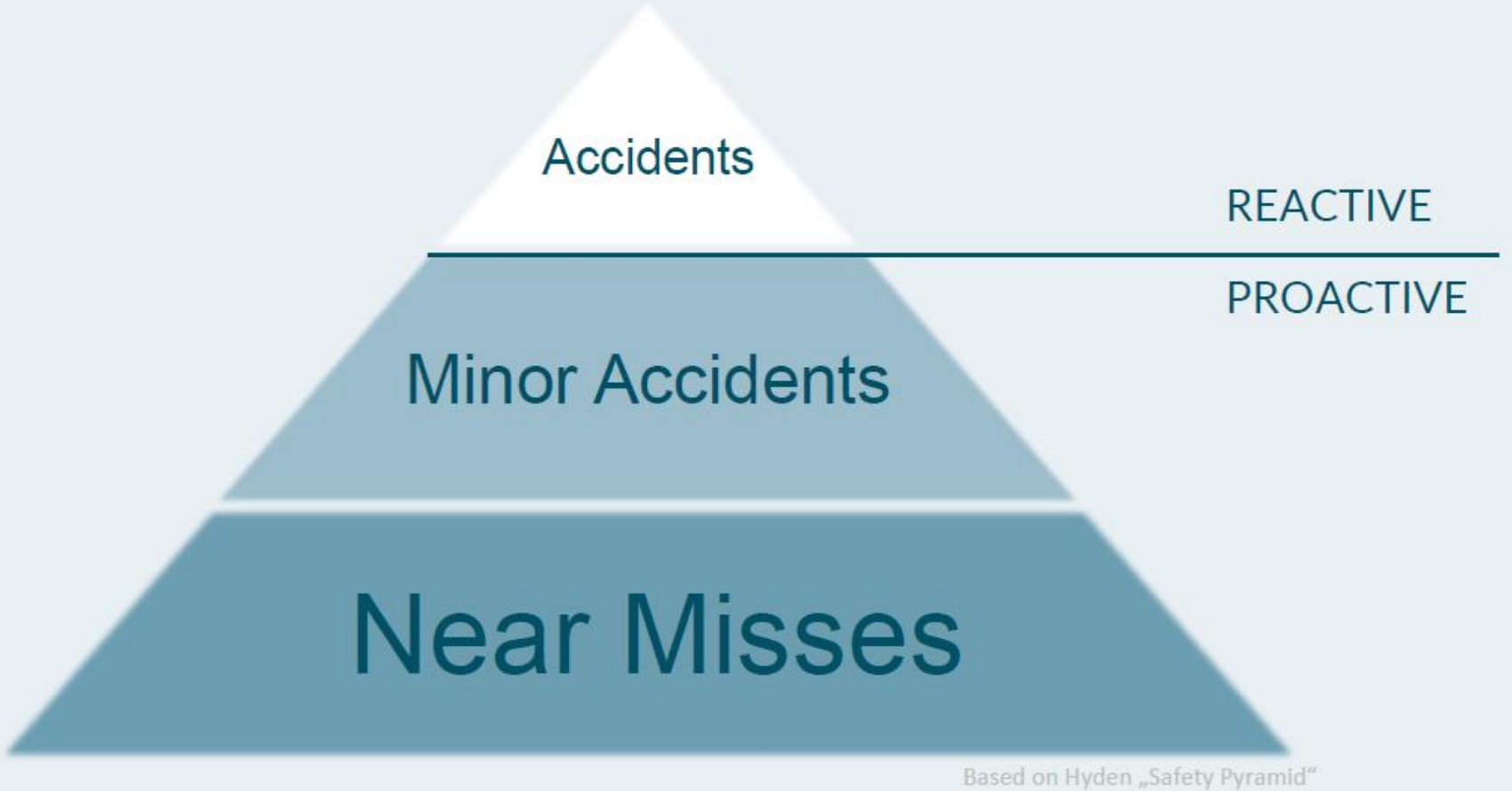
EDDA+ = Preventive work



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OVERALL GOAL

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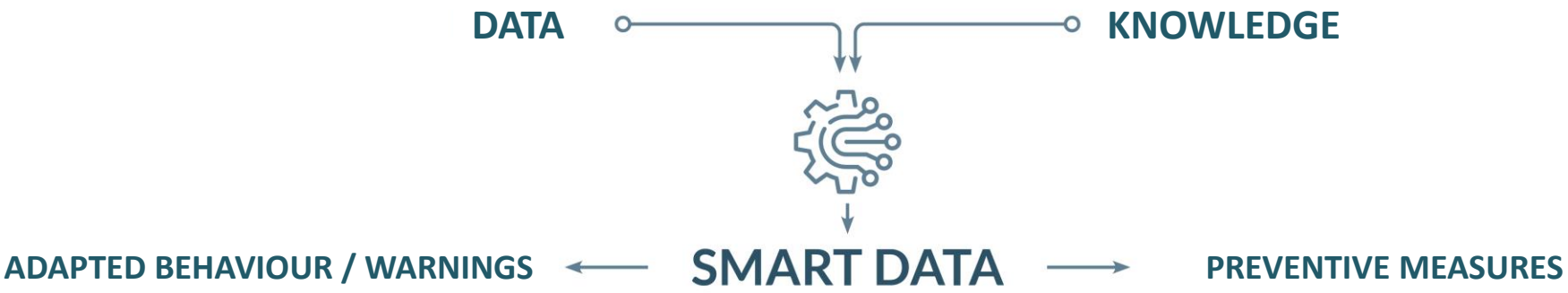

Road users

Road safety work

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Hazard Score Map

with user reports on www.gefahrenstellen.de

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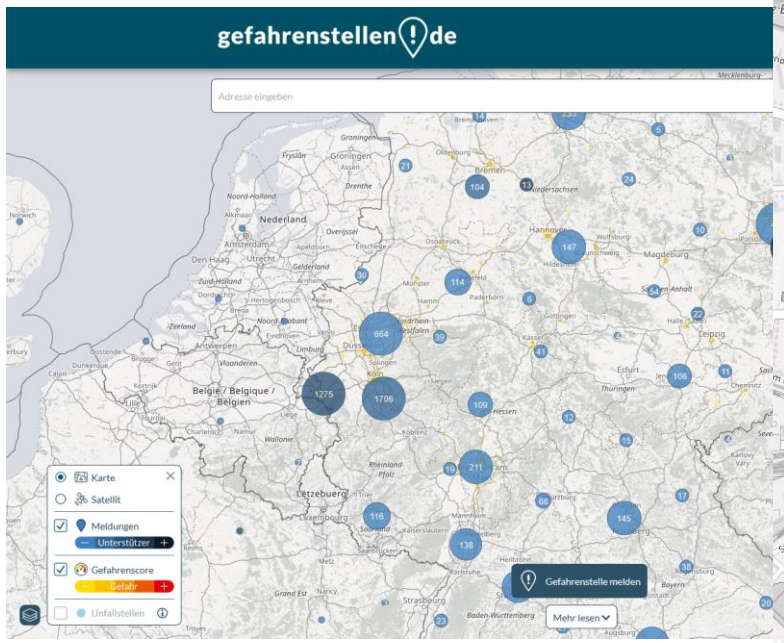

APPROACH EDDA+ (German: FeGiS+)

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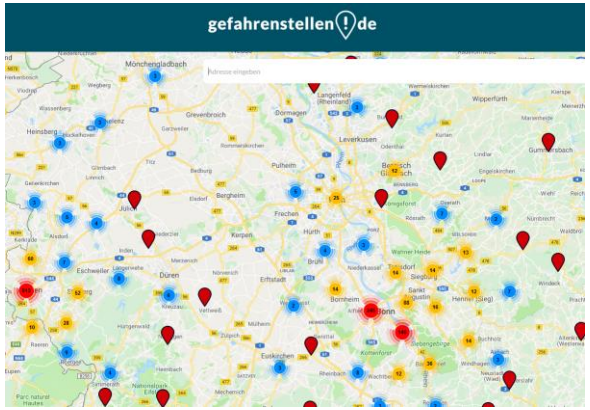
Accident data

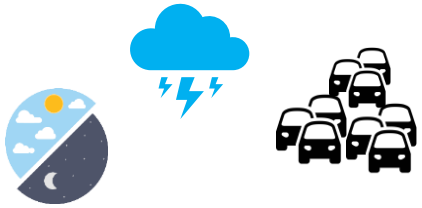
Road user reports



Kinematic data

Hazard score

Context factors



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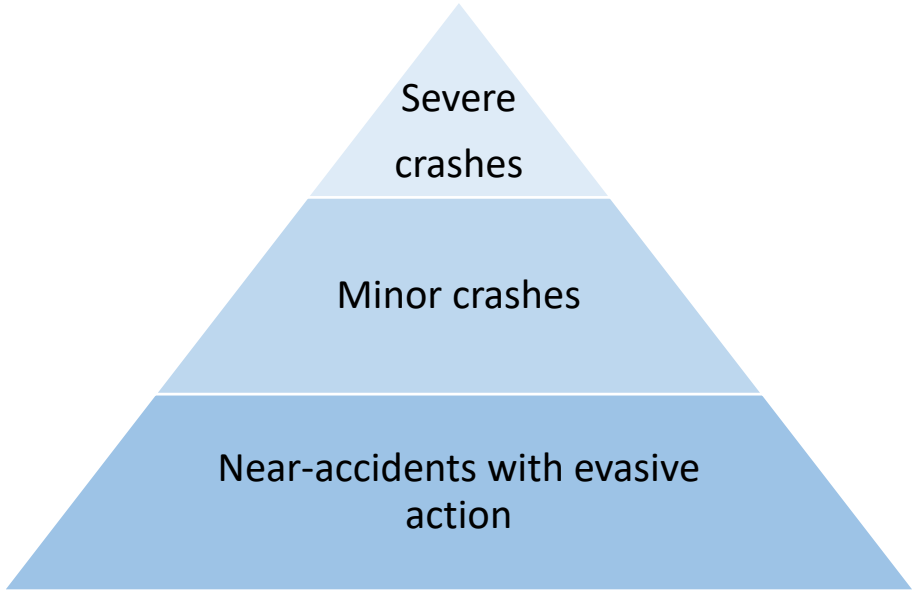
METHOD
of safety rating



Baseline danger level through
- Crash data
- (Safety critical driving situations)

Increase of danger level depending on
- Number of reports & supports

5 danger levels

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SYSTEMATIC RISK MAPPING
via Hazard Score Map

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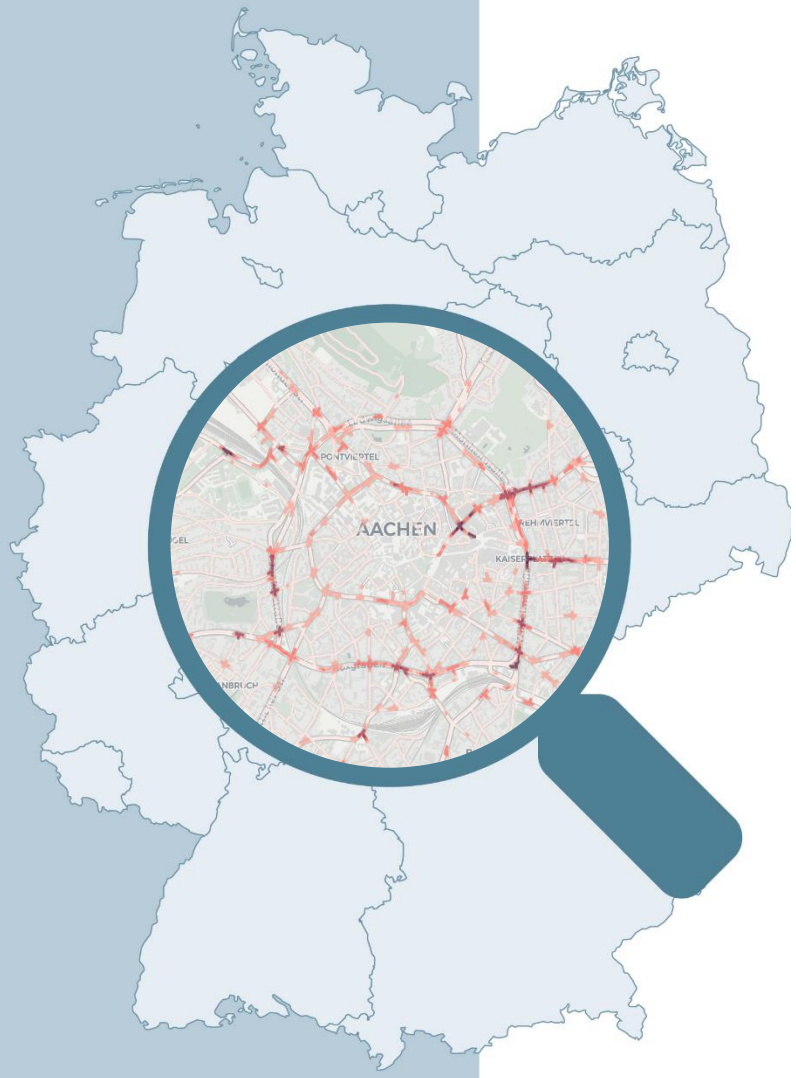

- Road network all over Germany (urban roads, rural roads, highways …)
- Currently available for 10 out of 16 federal states in Germany, German wide coverage this summer
- Coverage of 2-3 other European countries planned starting in late 2022 / early 2023
- Open for more countries and international collaboration

https://www.gefahrenstellen.de/

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ADVANTAGES
Unique characteristics

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Evidence based hazard score using data sources for validation and cross-referencing

Scientifically validated by RWTH Aachen und Police University incl. site inspections

Granular resolution of road network - 20m or less in urban areas

Context sensitive i.e. taking into account the specific situation of incidents

Type of risk identification showing the issue why an area is dangerous

Road user focus i.e. for whom the danger is the most relevant

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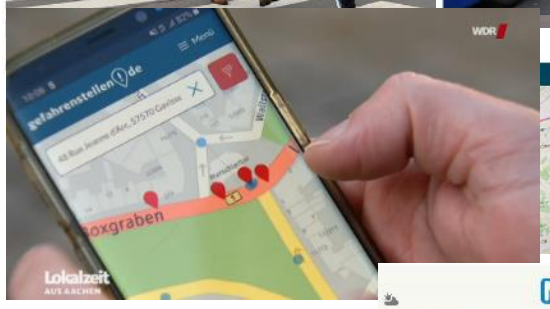
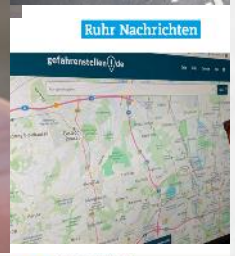
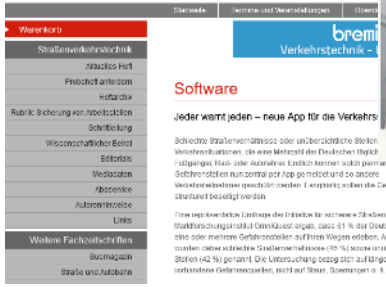
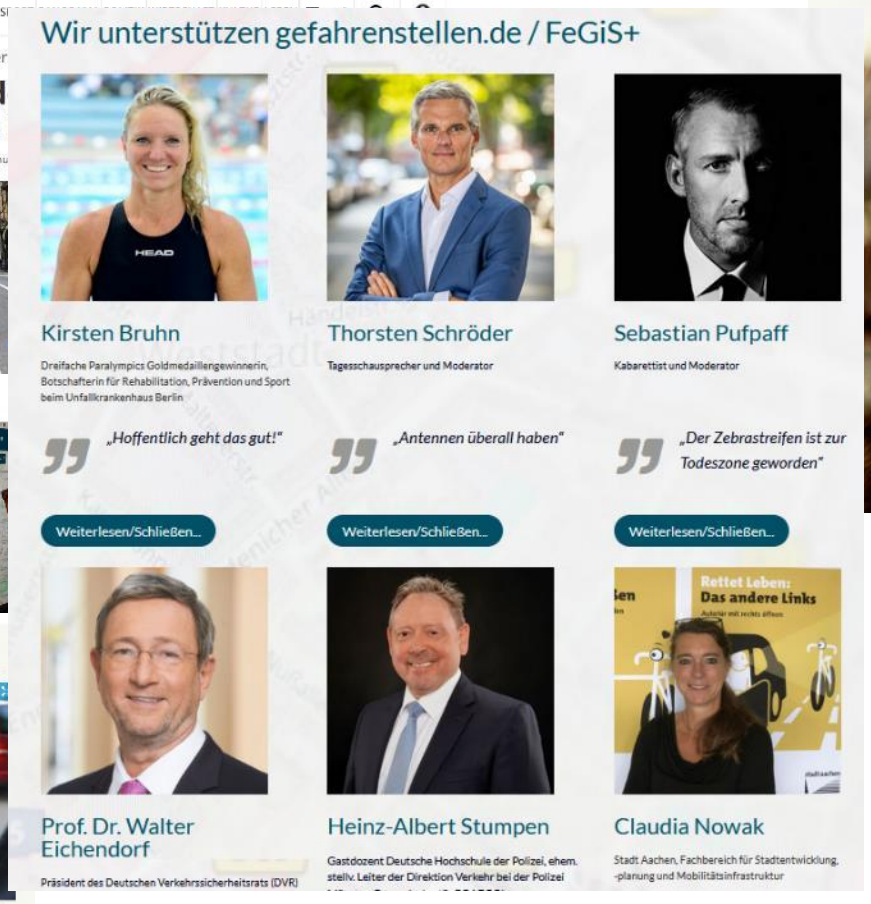
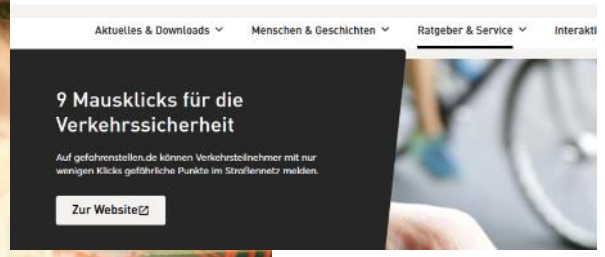
Road user data promotion

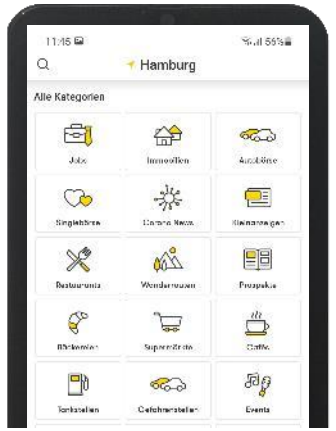












Die Bundesregierung

RUNTER VOM GAS

DVR

Deutscher Verkehrssicherheitsrat

REGIONALVERBAND RUHR

acv Automobil-Club Verkehr

R·O·A·D·P·O·L·····
European Roads Policing Network

meinestadt.de

Radio Bonn/ Rhein-Sieg

WIKIPEDIA
Die freie Enzyklopädie

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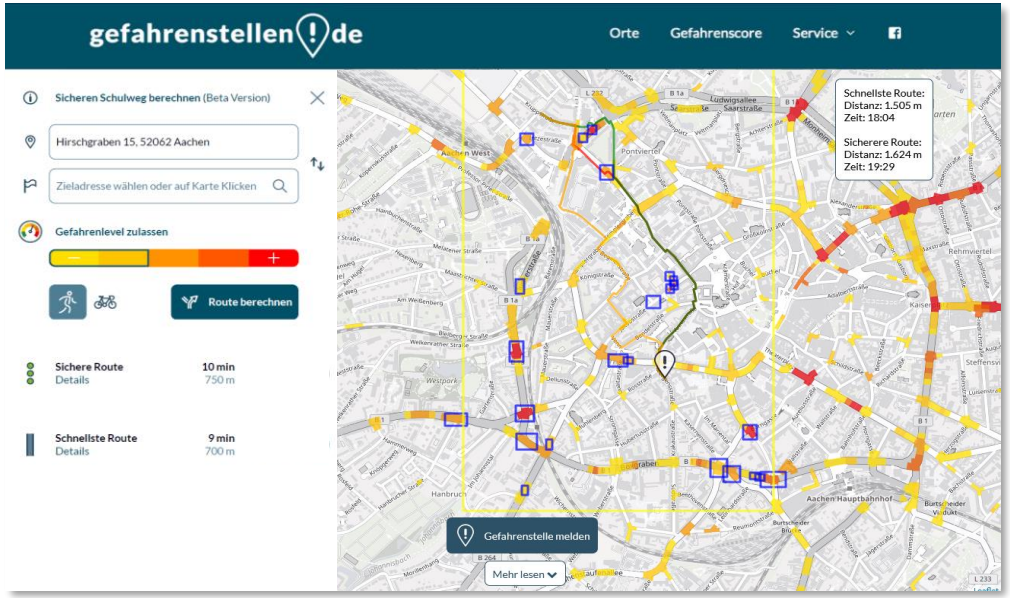
USE CASES
for Road users



Coming soon: navigation solution for safest way to school

- Intuitive, dynamic **warnings** according to hazard score at danger spots (e.g. acceptable or inappropriate driving behaviour)
- **Suspend** distracting (smartphone-) **notifications** in dangerous areas with higher risk levels
- Investigating **safer routes** for e.g. cyclists, pedestrians / safest way to school
- Autonomous driving: data input for risk analysis (Dynamic Risk Management)
- Apps for **high risk groups:** young drivers, elderly drivers
- **Safety analysis** of aggregated and anonymized data for fleet management

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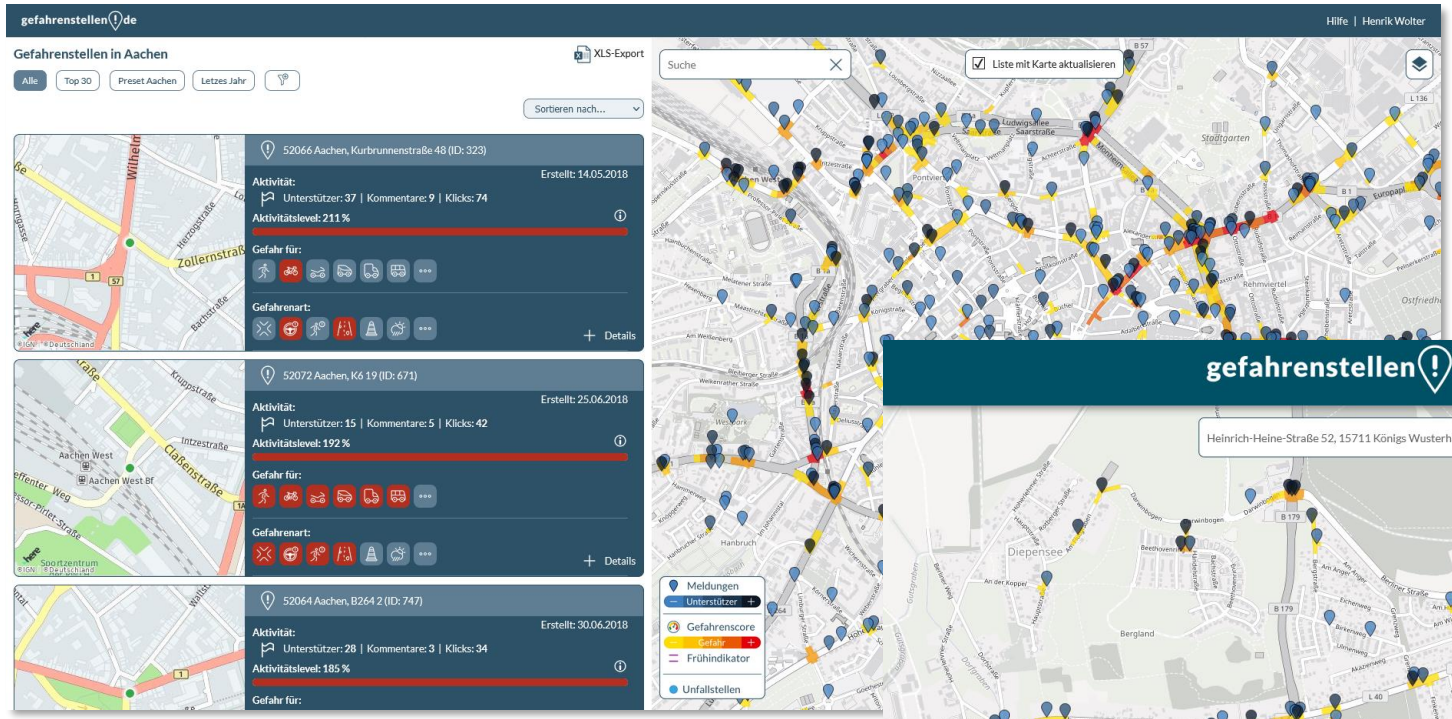
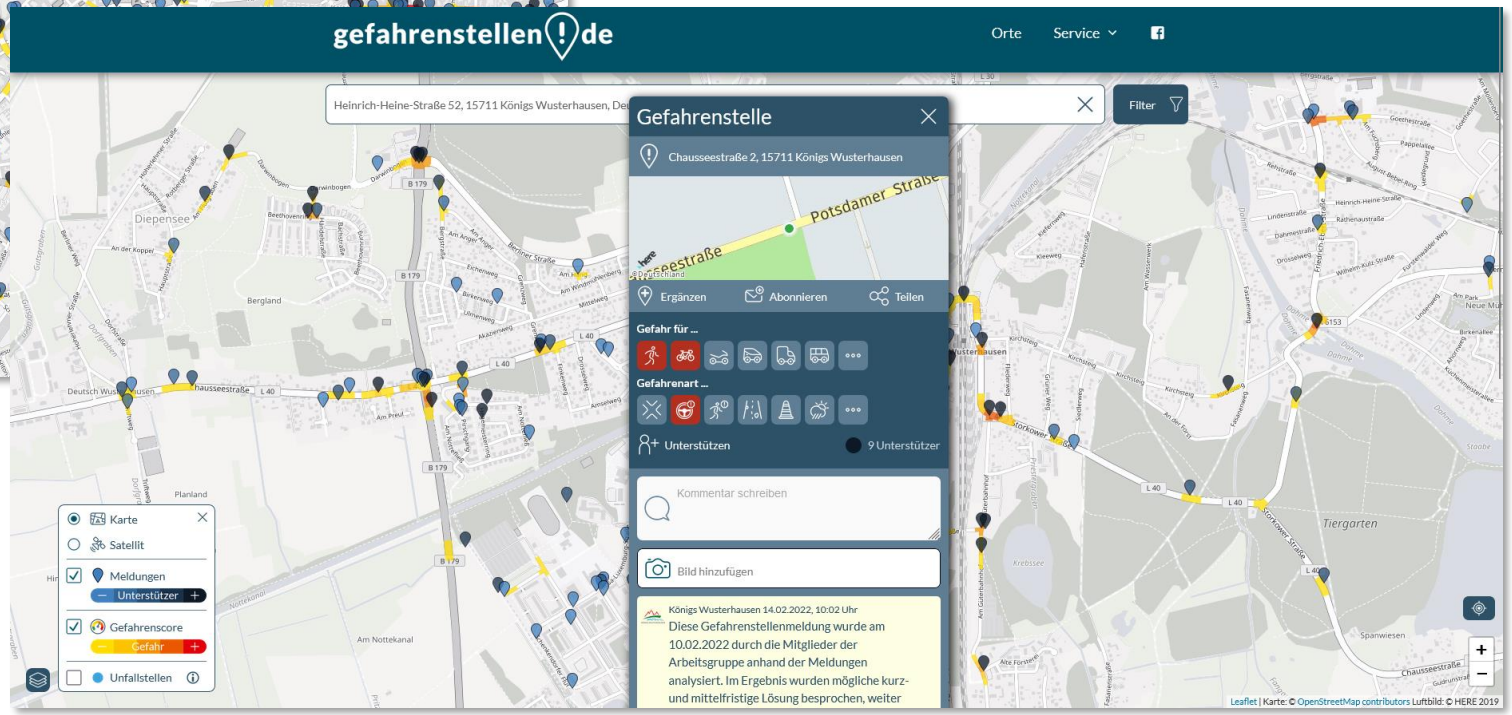
USE CASE

Pro-Portal for municipalities and police authorities





Analysis tool with numerous filter functions, communication features and export options.

Best practice project: Königs Wusterhausen

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ADVANTAGES
for municipalities and police authorities

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- Early detection of new geocoded danger spots
- Additional information for road safety work
- Danger spots can be prioritized according to risk level
- Comparison btw. blackspots vs. public opinion
- Public authorities can get in contact with citizens
- Construction projects in traffic can be published on the platform
- Targeted presence of police at specific danger spots to increase awareness

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THE PROJECT CONSORTIUM

dangerspots.org

INITIATIVE FÜR sichere-strassen.org

ISAC Institut für Straßenwesen | RWTH AACHEN UNIVERSITY

Deutsche Hochschule der Polizei

DTV Daten Technik Verkehr VERKEHRSCONSULT GMBH

PTV GROUP the mind of movement

funded by:

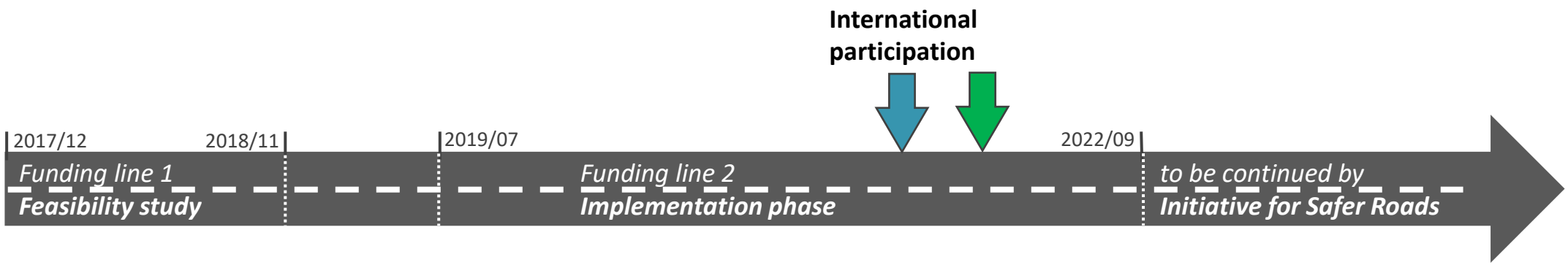
Bundesministerium für Verkehr und digitale Infrastruktur

mFUND Das Startkapital für die Mobilität 4.0

Associate partners:

Polizei Bremen

stadt aachen



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MORE INFORMATION?

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