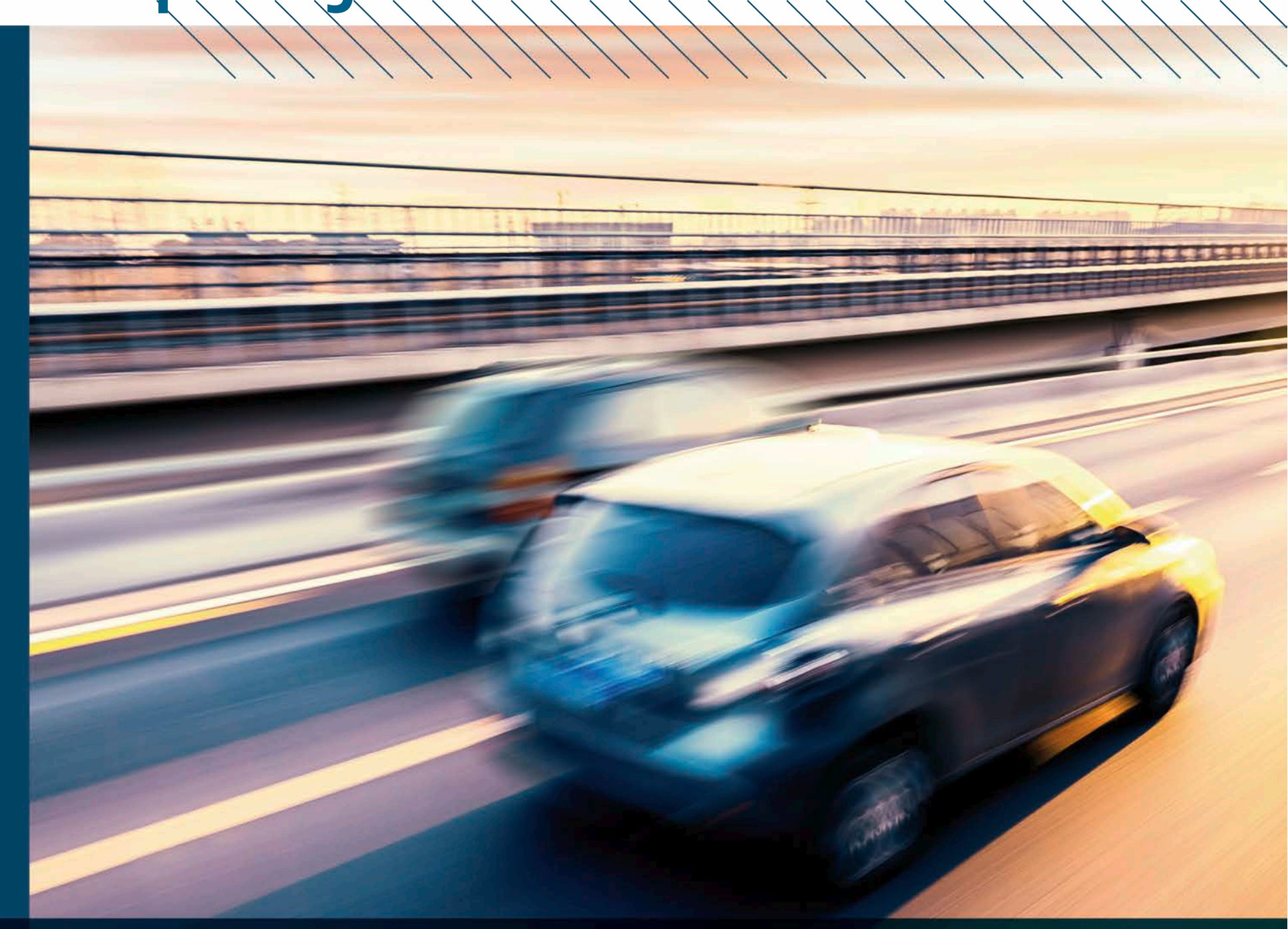


Testing and Safeguarding – Stand 19b

TOOLS FOR PROVING GROUND AND FIELD TESTS

MOBILE TRAFFIC ACQUISITION



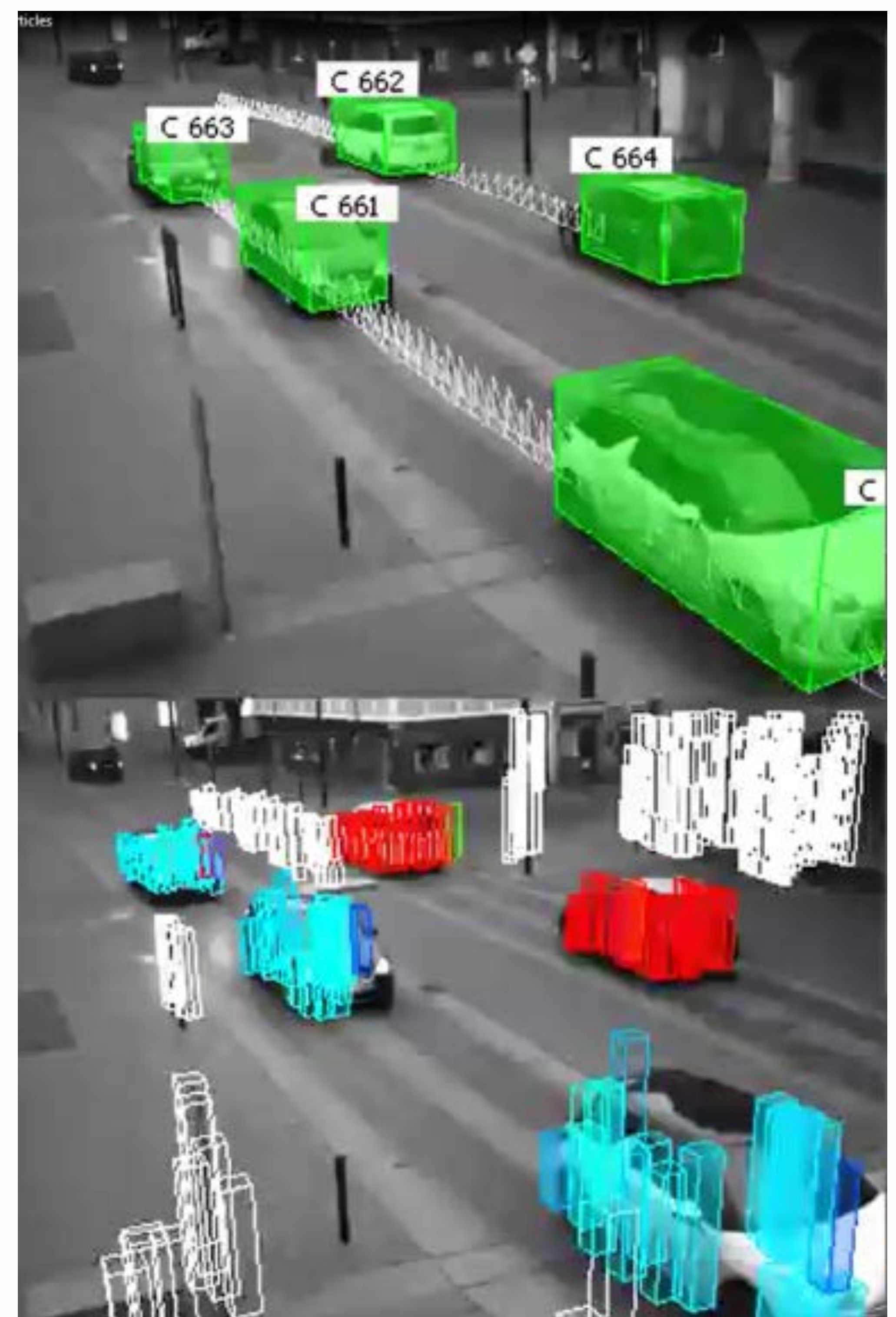
Technical data

- ➔ system consists of mobile sensor poles with a fused field of vision
- ➔ sensor head with stereo camera system and infrared flash
- ➔ communication unit: (W-)LAN for data exchange and uplink via LTE-connection
- ➔ power supply via external link to national grid or power unit
- ➔ outdoor control box for processing computers

output data: trajectories (position, speed, acceleration) and corresponding scene videos with augmented bounding boxes



Schematic representation of the installation



Scene video with augmented bounding boxes (top).
3D-particles with coded direction of movement by colour (bottom).



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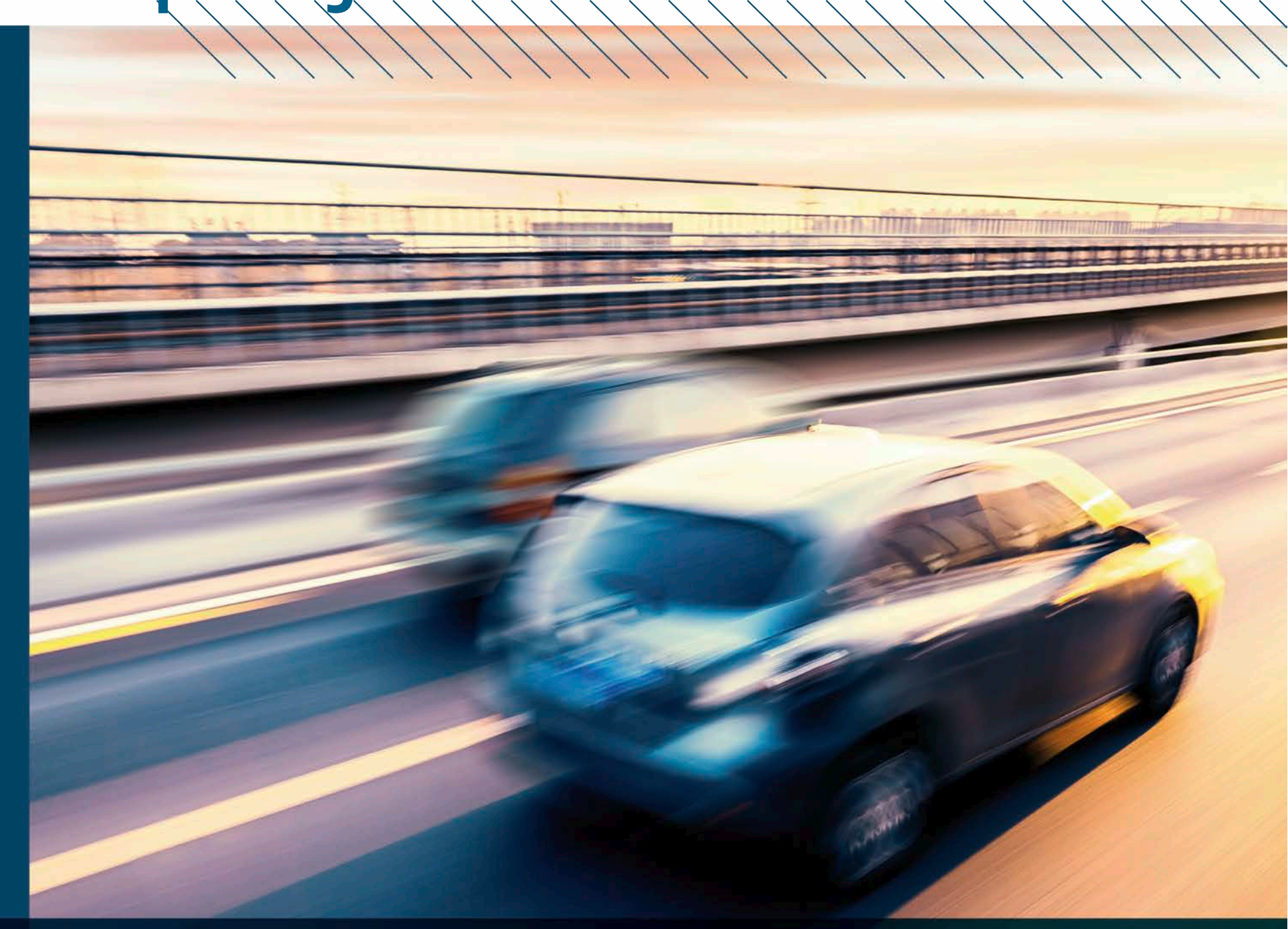


on the basis of a decision
by the German Bundestag

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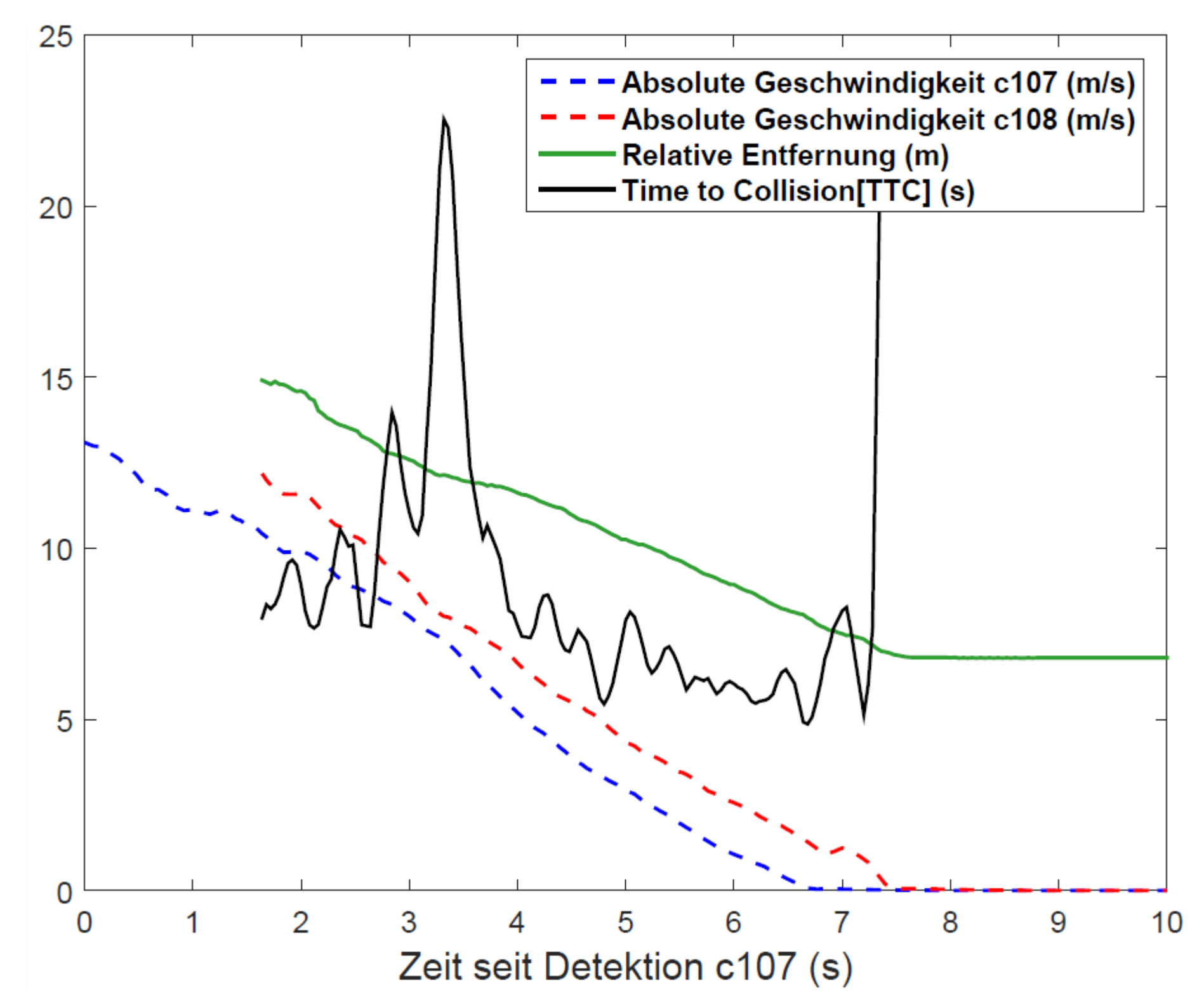
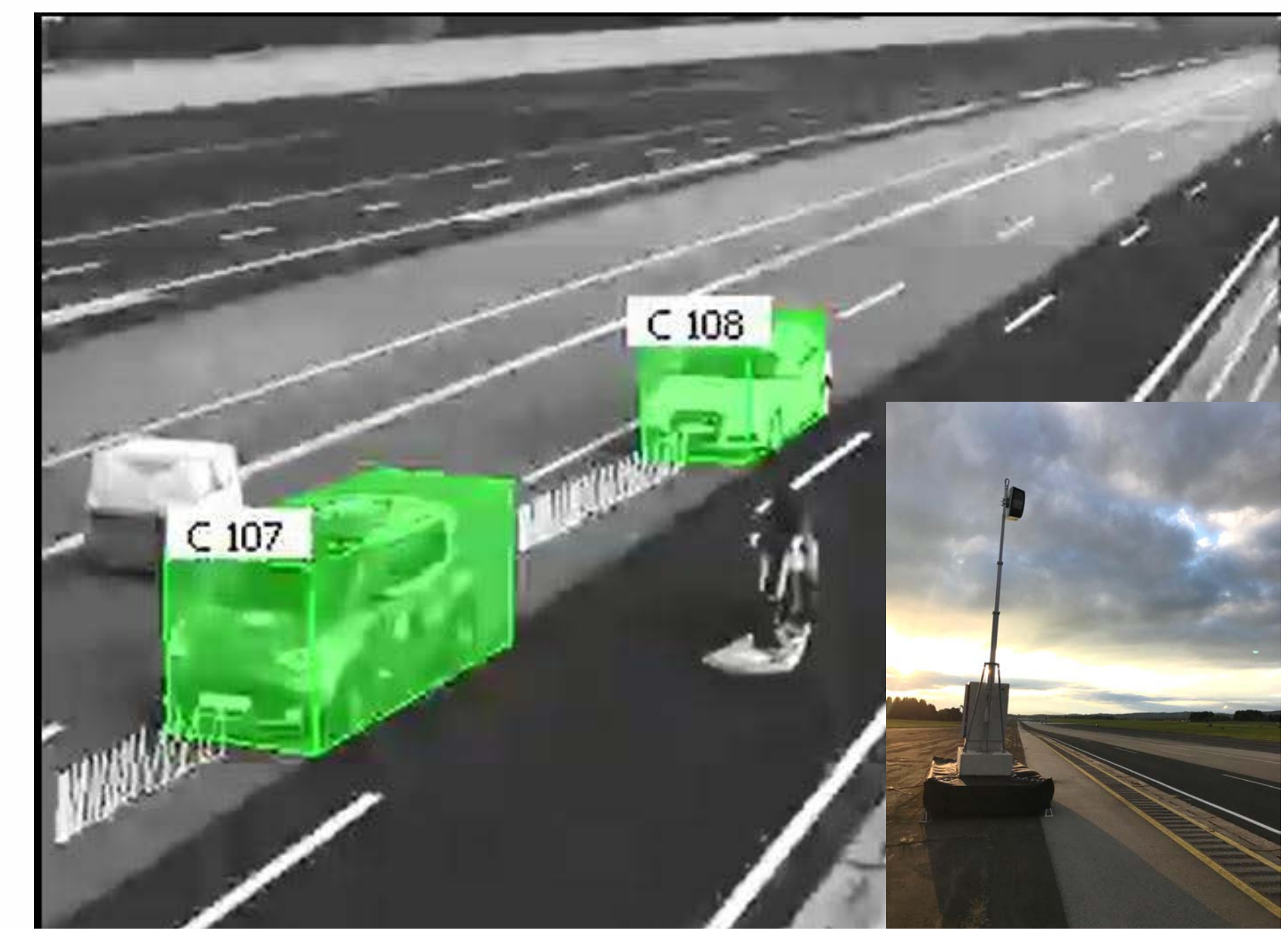
TOOLS FOR PROVING GROUND AND FIELD TESTS

MOBILE TRAFFIC ACQUISITION



Application

- detection, tracking and classification of motorized and non-motorized traffic
- observation of driving behaviour of automated and non-automated vehicles in the field
- analysis and shaping of interaction for automated vehicles
- analysis of traffic behaviour in shared spaces
- storage of data for offline-applications in local database
- ability to be integrated in cooperative system approaches via C2X



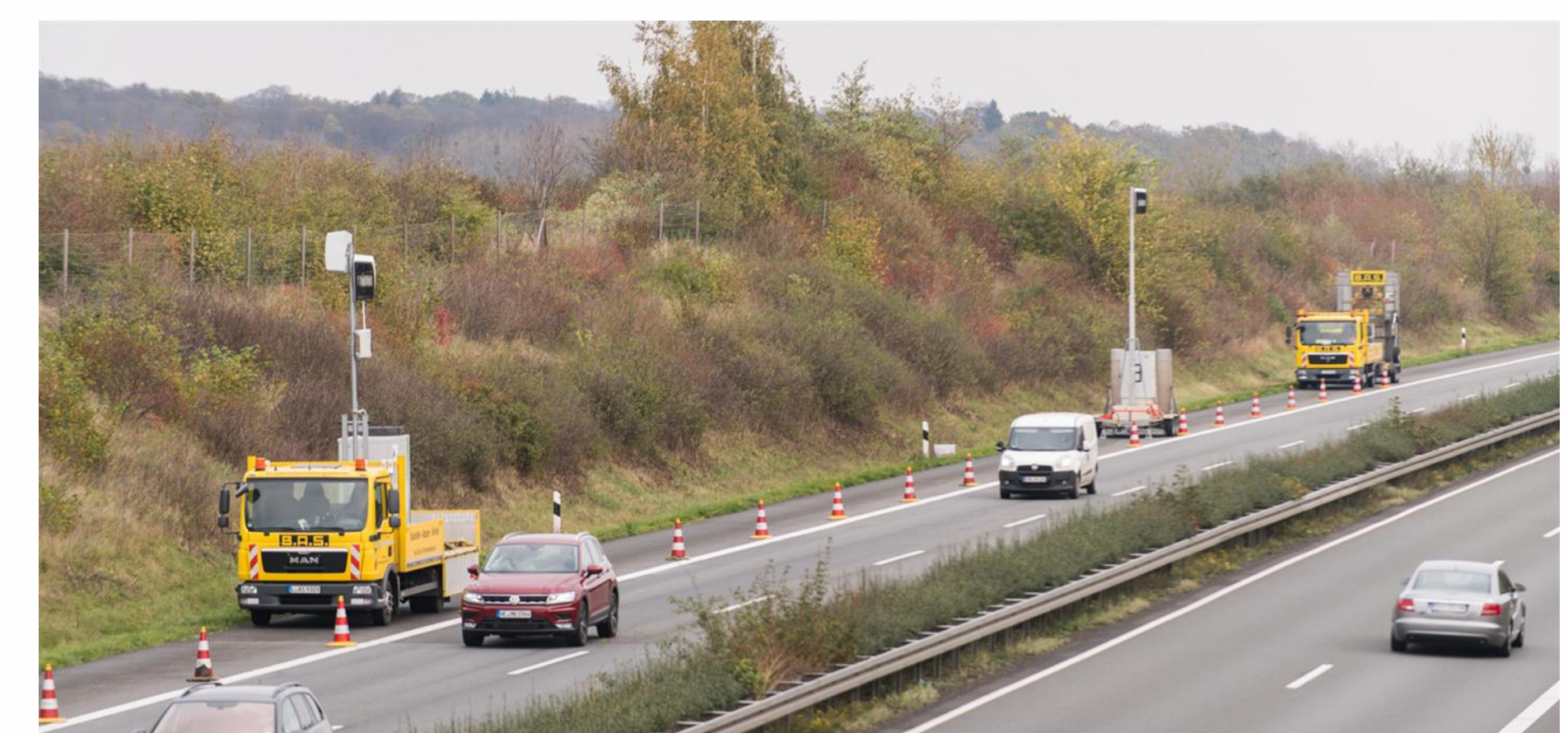
Measurement campaign at test site Pferdsfeld (top) Presentation of processed measurement data (bottom)



Measurement campaign at the main station Braunschweig to observe shared spaces



Measurement campaign at a level crossing with a flashing signal



Measurement campaign on the Autobahn A39



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