



Bike2CAV – Development and Validation of Methods for Collision Prevention of Cyclists through Car-to-X-Communication

Project duration:
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Involved staff:
Loidl Martin, Zagel Bernhard, Werner Christian, Stutz Petra, Wendel Robin

Project Lead:
Martin Loidl (Z_GIS)

Contact:
mobilitylab@sbg.ac.at

Role Z_GIS:
Project partner

Website:
<https://mobilitylab.zgis.at/portfolio/bike2cav>

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Initial situation:

The European Road Safety Council (ETSC) regards cooperative, intelligent transport systems (C-ITS) in addition to improvements in infrastructure and legal framework as suitable measures for improving safety of vulnerable road users (VRUs).

Current studies suggest that the introduction and increasing prevalence of connected and automated vehicles (CAVs) are going to have substantial effects on VRUs. However, the advantages and disadvantages for VRUs are widely unknown yet.

Project goals:

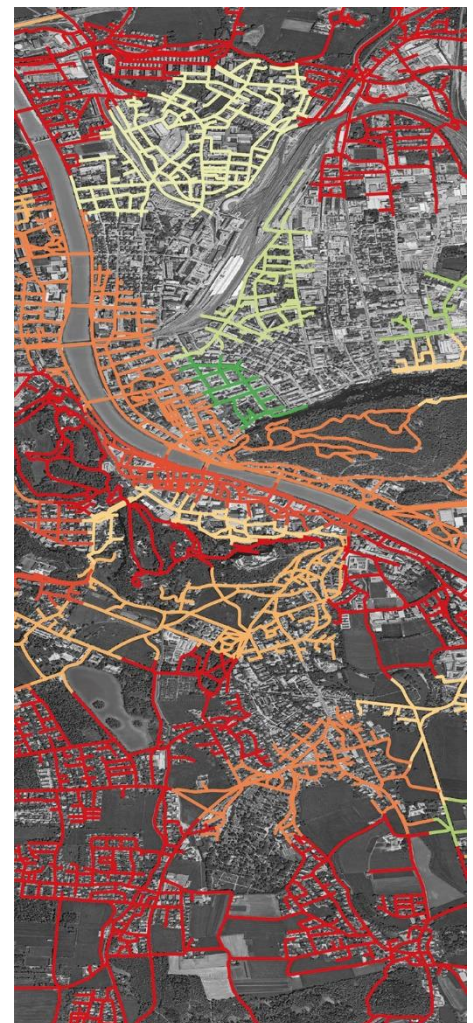
- Improvement of context awareness and detection of intended behaviour of cyclists.
- Cooperative detection of collision risk of cyclists and CAVs.
- Concepts for minimum- distracting collision warnings for cyclists.
- Evaluation of an integrated proof-of-concept prototype.

Expected results:

- Improved self-location of cyclists.
- Communication between CAVs, infrastructure and cyclists.
- Proof-of-concept of cooperative detection and mitigation of collision risk.

Contribution Z_GIS:

- Data acquisition and analyses.
- Spatial risk modelling.



Project partners: Salzburg Research Forschungsgesellschaft mbH (Projektleitung), AIT Austrian Institute of Technology GmbH, Kapsch TrafficCom AG, BB Boreal Bikes GmbH, Bike Citizens Mobile Solutions GmbH, Kuratorium für Verkehrssicherheit