UR:BAN

Urbaner Raum:
Benutzergerechte Assistenzsysteme und Netzmanagement

Outline

The research project UR:BAN was initiated to contend with transportation challenges presented by increasing urbanization in metropolitan regions. The aims of the initiative are to increase the traffic safety in urban areas as well as to facilitate economical, energy efficient and low emission transportation.

While several of the proposed developments within the UR:BAN project are aimed directly at increasing the traffic safety in the urban environment, others are intended to optimize the fuel-efficiency of urban traffic flow. In addition, the behaviour of road users in an increasingly network transportation environment will be studied. The resulting knowledge will be used to ensure that the diverse needs of road users are met and that drivers are not overburdened with warning information in complex situations.

Tasks of the Chair

- Data collection and analysis and subsequent modeling of the interaction between car drivers and vulnerable road users
- Central optimization of the traffic signal control in urban areas with consideration of truck platoons
- Assessment of the effectiveness of the developed systems/applications concerning traffic efficiency and environmental impact. Calculation is based on a given location (Düsseldorf) and calculated using a simulation based extrapolation
- System architecture for cooperative systems in urban environments with consideration of ITS framework architecture and data format

Duration

January 2012 to December 2015

Founded by

Federal Ministry of Economics and Technology (BMWi)

Partner Groups

Automobile and Supply Industry
Electronic and Communications Companies
Software Companies
Insurance Companies
Research Institutes
Universities
Cities of Kassel and Düsseldorf

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