

Bikealyze

Project duration:
04. 2015 -10. 2016

Project lead:
Salzburg Research

Role Z_GIS:
Project partner

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Status quo:

The project Bikealyze targets a major deficit in active mobility research and promotion. Thus, the project seeks to acquire knowledge about bicyclist’s real movement in space and their usage of infrastructure.

Project goals:

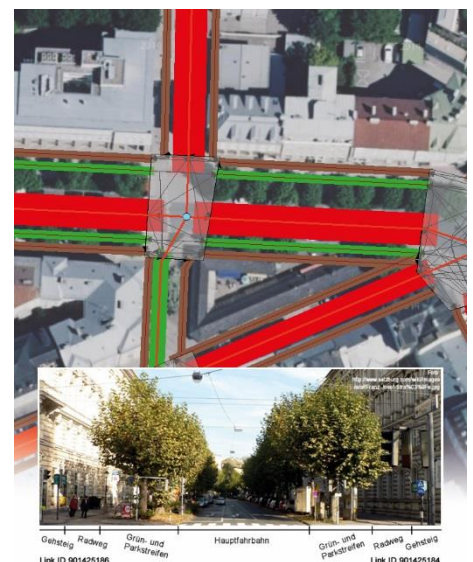
- Implementation of the first naturalistic cycling study in Austria
- Evaluation of mobile eye tracking in combination with video recording
- Acquisition of safety-relevant parameters with sensors from commercially available smartphones
- Matching of sensor data with the digital representation of the road network in order to extract information on infrastructure quality

Results:

The suitability of various sensors for naturalistic cycling has been assessed successfully. Furthermore, algorithms for the synchronization and harmonization of all sensor data have been developed. The Graph Integration Platform (GIP) has been evaluated concerning its suitability as a reference for high-precision measuring. Additionally suggestions for further improvements of the GIP have been formulated. Based on the project results, recommendations for further naturalistic cycling studies can be derived.

Contribution Z_GIS:

- Evaluation of the GIP as reference graph
- Data modeling
- Visualization of sensor data and analysis results



Project partners:



Funded by:

