

***Simulationsuntersuchung unterschiedlicher
KnotenpunktausbaufORMen mit radverkehrsfriendlyem Fokus
am Beispiel des Knotenpunktes Westring/ Olshausenstraße im
Stadtgebiet der schleswig-holsteinischen Landeshauptstadt Kiel***

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Abstract

The aim of this study is to investigate the effects of different design forms on the traffic flow at intersections with a bicycle-friendly focus. For this purpose, a selected intersection was redesigned according to German and foreign guidelines. The different designs were analyzed with different evaluation possibilities. In order to answer the research question, a simulation study was set up, in which different designs were examined using microsimulations. The simulation study showed that only infrastructural reconstruction measures can have an impact on the traffic flow of bicycle traffic. These changes cannot be represented by classic evaluation mechanisms of the source „Handbuch für die Bemessung von Straßenverkehrsanlagen“ (HBS). As a result, the assessment procedures of the HBS are not meaningful for the assessment of bicycle traffic at intersections and have to be adapted. Finally, for a comprehensive analysis of the traffic flow, it makes sense to assess bicycle traffic with microsimulations.

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Study Programme

M.Sc. Verkehrswirtschaftsingenieurwesen