

**JOHANNES FELBUSCH:**

**„Radschnellverbindungen**

**– Kriterien und Randbedingungen für die Planung und die bauliche Umsetzung“**

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## **Abstract**

In the future, the bicycle highway will create a new perspective for short-distance mobility. In order to achieve this, larger metropolises are to be connected by bicycle highways with connections to communities or local communities.

The task of the bachelor thesis was to investigate the boundary conditions for the planning of bicycle highways. In addition, from the findings obtained, an example of self-planning for inter-urban and non-local intersections between a bicycle highway and a highway are to be created.

For this purpose, the basics of bicycle highways were first researched and the collected findings compiled in the form of a list of criteria. These include, for example, technical basics as well as the design principles for bicycle highways. Among other things, the aims of bicycle highways are to shift motor vehicle traffic onto the bicycle in order to relieve the strain on the roads and the environment.

In the second step, the already realized bicycle highways as well as the already in the plan were enumerated and their current state of affairs described.

Furthermore, based on an example, a comparison of claim and reality of bicycle highway were compiled and discussed. In a separate step, the essential legal framework for bicycle highway were listed.

In the further course, the critical discussions were created on the basis of a table. This describes the decisive operational, technical and legal points of conflict as well as the road users at bicycle highways. The findings were used to help to get their own recommendation.

Finally, based on one's own recommendations and the data collected in advance, a junction inside and outside the city was planned and explained as an example.