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**QUERUNGSHILFEN FÜR FUSSGÄNGER UND RADFAHRER
AN STRASSEN**

**Vergleichende Untersuchung der Planungsgrundlagen in
Österreich, Deutschland, Schweiz und Italien
DIPLOMARBEIT**

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Abstract

This diploma thesis on hand, deals with crossing facilities for pedestrians and bicycle riders in road construction. First of all, the accident hazard for vulnerable road users within the European Union, based on precise terminology will be determined. Afterwards, the different influencing factors will be generally specified.

In the main part of this thesis, not only the individual technical options will be described in detail but also their limitations of use concerning Austria, Germany, Switzerland and Italy. On this, legal requirements were examined and engineer standards, guidance's as well as references compared. In addition, the history of particular road crossing facilities will be discussed, just as well as new developments and innovative ideas. Structural and also traffic arrangements with or without temporal division as well as level-free solutions will be exemplified. Precisely, pedestrian crossings, bicycle crossings, crossings controlled by traffic signals (puffin crossings, pelican crossings and toucan crossings), curb extensions, raised carriageways, centre islands and under- or overcrossings are analysed.

The last part of the thesis statement contains two practical examples, which were critically evaluated. The first example concerns an accident location of 220m on the B186 in Sölden and the second one a signal controlled pedestrian crossing (on request of a pedestrian) in Sagl Street, Telfs. In both cases exemplary common failings, shortcomings and accepting problems as well as ideas for improvement are submitted.