Problem description
With increasing traffic on highways, standard configurations for highway interchange design are no longer appropriate. In four-way interchanges with one major diverging traffic flow, there are a lot of options for the design of the road section for the diverging traffic flow. These options perform differently on criteria as traffic flow, traffic safety, use of space and signing and marking. This has led to many different designs of diverge points at Dutch interchanges. Because of this diversity, drivers have different expectations about the road design and therefore also act differently, which leads to unexpected behaviour and reduced traffic safety.

Objectives & Assignment
The aim is to give recommendations (trade-off matrix) for the optimal design of diverging points in four-way interchanges with one major diverging traffic flow. The research should consider the aspects of traffic flow, traffic safety, human factors, use of space and signing and marking.

Possible steps in the research include literature review, analysis of existing situations on Dutch highways, analysis of the trip from the human factors perspective, designing and conducting a driving simulator study, and a case study.

This Master thesis includes an internship at Witteveen + bos.

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