Dedicated traffic management for automated vehicles

Problem description
For decades, the Netherlands has been a world leader in traffic management. This has led to the application of many different traffic management measures. However, the introduction of automated vehicles, eventually with cooperative capabilities, may render many of these measures inefficient or even superfluous.

For this reason, there is a desire to investigate potential new types of traffic management that can be effective with automated vehicles. Often in-car systems have been mentioned in this regard. And although these may be promising, other infrastructure based methods may be just as effective for both automated and no automated vehicles.

Objectives & Assignment
The objective of this project is to describe investigate how effective current traffic management might be for automated vehicles and to propose new options for traffic management that would be effective for both automated and non-automated vehicles. To this extent, literature research will be required to gain an understanding of current systems and of the requirements for automated vehicles. An analysis will be required to estimate the effectiveness of the current DTM measures. Finally, acquired insights will be used to propose new DTM measures and to test their potential effectiveness, which might include a simulation study or a theoretical analysis at the very least.

This Master thesis can include an internship at an external organisation.

Research group
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External support
TBD

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