Problem description
Automated and cooperative driving technology has allowed new concepts to be introduced to roads with Truck Platooning being mentioned as a promising concept with a strong business case. This involves trucks following each other with short time gaps to save fuel and therefore costs and emissions. Although it has been claimed, truck platooning will not positively affect traffic flow due to their limited penetration and other difficulties. However, the creation of ‘super platoons’ which could involve both trucks and cars could lead to traffic flow improvements.

This project aims at investigating this new intriguing concept for its feasibility and potential effectiveness.

Objectives & Assignment
The objective of this project is therefore to investigate how super-platooning might work and what would be required for it, from a starting point of truck-platooning. Thereafter, a case study should be performed that can include the setup and use of traffic simulation to give indications of the potential to improve traffic flow. Other considerations should also be made in regard to the governance of such a system and how it can be made attractive for both private car owners and the companies.

This Master thesis can also include an internship, for example with TNO.

External support
TBD (e.g. TNO)

Information
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