Research School for Operations
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Quantitative approaches for collaborative transport operations

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This PhD project is part of the NWO funded project: DATAS for multi-channel, multi-company collaboration. The objective of this project is to research, build and test (in practice) advances decision support systems for both multi-channel (retail, detail and e-tail) and multi-company collaboration. The starting point of the decision support systems involves connectivity, allowing data to be exchanged, shared and connected. Once connectivity is in place, intelligence needs to be built in order to make use of these comprehensive data sources. Specifically, adequate, timely and accurate information, based on various data sources is required. This could be (real-time) information aggregated from multiple sources, including (cooperative) devices, such has transportation infrastructure sensors, but of course also the various information systems from the logistics service providers, shippers etc. The decision support systems to be developed will focus on collaboration. In the different distribution channels companies can benefit a lot from cooperation. Think of using the Retail network to position trailers close to cities, from which Detail and E-tail distribution could be handled. As such, the Retail network brings value for Detail and E-tail distribution. In Detail and E-tail networks, large consolidated volumes need to be transported, for which the Retail network could be used.