



Self-Organizing Synchro Modal Logistic System

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This project aims at strengthening the means of implementation and revitalization of the global partnership for sustainable development. This objective encourages multi-stakeholder partnerships that mobilize and share knowledge, expertise, technology and financial resources to support the achievement of the sustainable development goals in all countries.

The Netherlands in general and Rotterdam in particular are perfectly positioned for the handling of large volumes of cargo. On the sea side, the port's strategic location in North-west Europe, its unrivalled depth and the large-scale container handling facilities definitely give Rotterdam an edge over the competition. Decisive, innovative companies have already been optimally utilizing these advantages for decades. For the hinterland transport of deep-sea cargo throughout Europe, the comprehensive networks of rivers and railway lines constitute major trump cards as well, with a huge capacity for sustainable transport.

This research project aims at two main targets:

- 1) develop a real-time synchro modal planning algorithm capable of solving real case problems,
- 2) integrate self-learning mechanism to introduce recovery strategies in case of small scale disturbances.