With Vrachtfiets, people can transport voluminous goods. Transporting voluminous goods is a two person’s job. Vrachtfiets can be a pleasurable alternative and practical solution for transportation of goods and people within short distances.

Vrachtfiets is a modular vehicle that enables modules to be designed for a specific context and provide a fitting mobility solution. Around the Vrachtfiets, the module, the user interaction and the context, a Product-Service System can be designed.

Vrachtfiets and the Cradle-to-Cradle islands

During this graduation project, Vrachtfiets applications on the Cradle-to-Cradle island of Ameland, have been explored. The project started with the development of a ‘Vrachtfiets module and Product-Service System (PSS) creation Methodology’.

After analysis, possible Vrachtfiets applications were translated into scenarios; ideas for Product-Service Systems based on the modular Vrachtfiets. Discussion of these scenarios with local actors resulted in the collaboration with a holiday park on Ameland with both internal and external transport needs. Analysis of these transportation needs resulted in the design of three different modules and a PSS in which these modules work together. The different transport needs have a fluctuating demand. By interchanging the modules on the Vrachtfiets however, its application can be changed to meet the transport need of the moment.

One of the designs is a Tourist Vrachtfiets on which tourists are able to transport themselves, their family and their luggage between the ferry and the holiday park. This service can be booked on forehand and provides the tourists with an alternative to bringing their car along to Ameland. This reduces the amount of cars on Ameland, saves money by not bringing your car on the ferry and creates a unique and fun experience.

The module has been prototyped and tested on Ameland.