

TEKX04-21-15

ReSvinn

Question

Food waste is one of the greatest environmental problems of present time, giving rise to a wide range of innovative initiatives. One example of such an initiative is ReSvinn, a Chalmers founded project, currently realizing several trials on different methods with the aim of decreasing the food waste from grocery stores by redistribution to local restaurants.

Circular economy entails more transports compared to the traditional linear economy, and with the aim of the project being to reduce the overall climate footprint, the impact of transportation must be weighed against the benefits that comes with saving food. There are currently no general methods to evaluate the logistic systems that have been created in the different trial processes of the project - neither from a cost nor from an environmental perspective. Hence, the problem arises in being able to compare and evaluate the environmental impact of different logistic systems in situations concerning circular economy.

Purpose

The aim is to, in collaboration with ReSvinn and Postnord, develop a method for calculating the environmental impact of transport in the context of circular economy and, more specifically, when redistributing food that would otherwise be discarded. The intention is that the resulting method will be of use for calculation of the environmental impact of different logistic systems, as well as when comparing different systems.

Method

In collaboration with Postnord, and with the help of their climate impact calculation tool, compilation of data will be made from various projects at ReSvinn. Using the collected data, collaborating with ReSvin and performing supplementary interviews at different projects, a general method for evaluating transport emissions and costs for various logistic solutions will be established.

Prioritized department

Service Management & Logistics

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Note: the thesis will be written in English