

Project Proposal

For the Degree Program in Sustainability Studies

Correlation between packaging performance and food wastage

Duration: 5-6 Months (27,5 ECTS = 825 h)

Location: Home Office

Possibilities for a follow-up Master's Thesis: Yes (e.g. application of the determined correlation on a research project-related Case Study)

Potential Cooperation Partners (if applicable): None

Supervisor / Contact: Alina Kleiner, M.Sc.

Aim of the project: Provision of an information basis for answering the question: To what extent can the influence of individual packaging characteristics on the generation or prevention of food wastage be quantified? And to what extent is there a correlation between packaging performance and food wastage?

Project description: Packaging functionality and especially the protective function of packaging can have a proportionate influence on the amount of food wastage. In sustainability assessments of packaging, this relationship is not considered as standard. Therefore, as a specific sustainability criterion, the contribution of the packaging to ensuring food safety and quality and thus to reducing food wastage should be taken into account when assessing packaging sustainability in a more holistic way. For example, packaging-related food wastage could be integrated into the sustainability assessment of food packaging in order to take packaging functionality into account. In order to do this, it is first necessary to quantify the packaging-related food wastage. The [SPA project](#) aims to achieve this by correlating packaging performance in terms of packaging functionality with the food wastage generated or avoided.

Suitable for / Requirements for the student: Can be carried out in German or English. The student should be interested in the topic, have an independent way of working and be willing to familiarize themselves with the mathematical background of correlation generation.