

Bachelor Thesis

At the Chair of Business Administration, the working group Project and Resource Management in the Built Environment is eligible for a thesis on the following topic:

Life Cycle Assessment 2.0 Ecosystem Services as an Extension of Life Cycle Assessment

Background

Life cycle assessment is a crucial tool for assessing the environmental impact of products and services throughout their life cycle. This method helps to quantify resource consumption and emissions to make more sustainable decisions.

The further development and combination of life cycle assessment with the assessment of ecosystem performance offers the opportunity to take into account not only the direct environmental impacts, but also the services that ecosystems provide to humanity, such as carbon sequestration, water purification and biodiversity. This will allow for more comprehensive and accurate assessments that reflect the real environmental costs and benefits.



Contents of the thesis

The aim of this thesis is to provide an overview of possibilities and previous areas of application as well as the current state of research on methods and approaches of ecosystem performance-integrated life cycle assessment based on a systematic literature search.

Requirements

Special previous knowledge in the field of life cycle assessment and ecosystem services is not necessary. A good grasp and independence for research are required. The offer is mainly aimed at students of industrial engineering, but also at students of other disciplines.

Contact

M. Sc. Simon Steffl, simon.steffl@kit.edu