Master’s thesis

Digitalization as a strategy in the circular economy

Derivation of principles to implement digitalization as a R-strategy in the circular economy

**Background:**

Sustainability and scarcity of resources are among the most challenging topics of our time, not only from an environmental perspective, but also from a political and strategic point of view. Although there are already a variety of approaches (e.g. R-strategies by the Ellen MacArthur Foundation) on how to meet those challenges, the contribution of digitization is neglected.

**Goals:**

The master's thesis should analyze to what extent digitization can represent an additional R-strategy in the circular economy. For this purpose, current use cases should be identified and analyzed. Subsequently, principles for the implementation of digitization as a R-strategy in the circular economy should be derived.

**Key aspects:**

Topics which shall be covered within the thesis:

- Digitalization and circular economy
- Research and collection of use cases on how digitalization can be implemented as a R-strategy
- Analysis and evaluation of the use cases based on defined criteria

**Discipline / courses:**

any technical courses and engineering (Technologiemanagement, Wirtschaftsingenieurwesen, Maschinenbau…)

**Start:**

Henceforth

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Please apply by email with your CV and current transcript of grades. Cover letter is not necessary. Gladly with an explanation why the topic is exciting for you. Modified topics are possible.