

Circular Economy in Construction Using AM

Enabling Industries Through Material Recycling and Reusable Connection Parts



Motivation and Relevance

- Increased demand for sustainability within the construction and building industry as one of the main consumer of the global energy demand
- Companies aiming for resource and energy efficient buildings, interested in architecturally ambitious building structures

Approach

- Establishment and evaluation of a process chain for the production of powder from construction scrap, which previously could not be recycled
- Development of a digital tool for optimized part design

Results

- Increased resource and energy efficiency of buildings by material efficient and energy saving facade brackets and increasing the amount of metal material recovered from construction scrap

Research Area

- Circular Economy
- Construction Industry
- Resource & Energy Efficiency

Partners



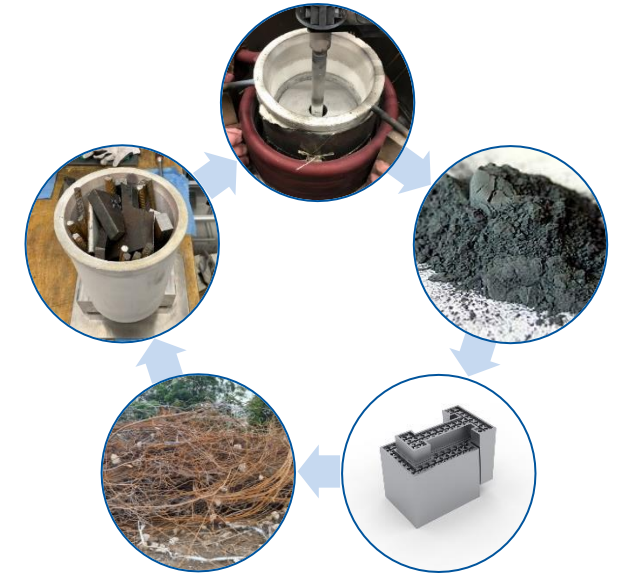
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