



RG DIGITIZED GREEN TECH

ACCELERATING SUSTAINABILITY THROUGH DIGITALIZATION

INTRODUCTION AND MOTIVATION

- Drastically change in climate and environmental conditions create the necessity for developing sustainable systems and foster a Circular Economy
- Digital solutions could help overcome the today's barriers in ecological system design
- RG DGT focuses on exploring and investigating sustainable systems and the adjunct digital systems

SOLUTION APPROACH

- Fundament of our research is the Circular Economy as counterpart to Linear Economy systems
- Circular Economy Model consists of different Layers:
 - Use & Share (dealing with the primary usage cycle)
 - Reuse & Repair (dealing with the continuation of the product purpose)
 - Refurbish & Remanufacture (dealing with a more complex workover processes)
 - Recycling (dealing with the final processing to regain resources)



METHODS AND TECHNOLOGIES

- To investigate the possibilities in our domain and enhance different systems we use the following technologies:
 - Software Systems Engineering tools
 - Sustainable Business Model Design
 - Automated Systems & Robotics
 - Artificial Intelligence
 - Cyberphysical Systems and Digital Twins

If you have questions or are eager to participate in our research, feel free to contact us!

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