

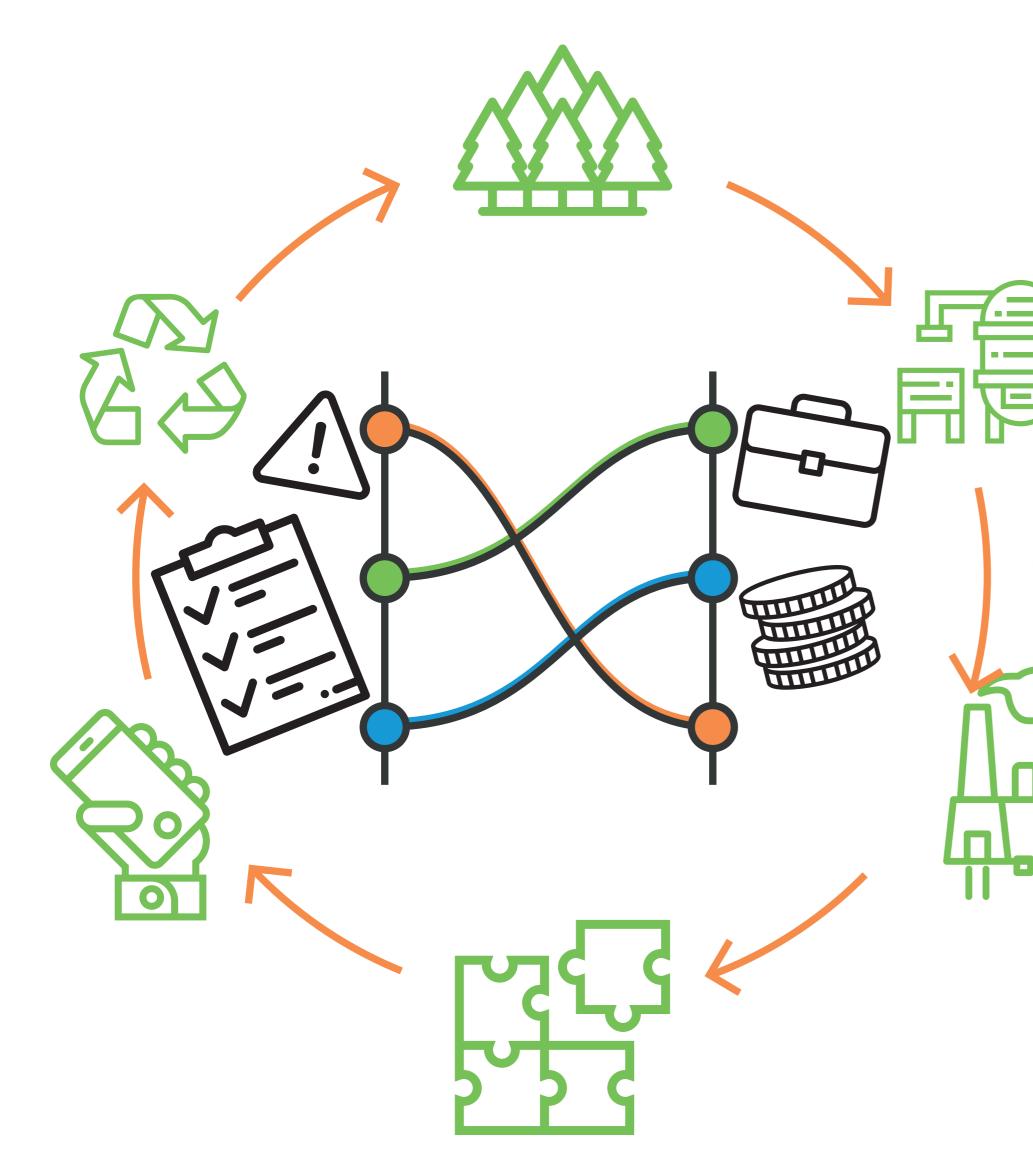
RESEARCH

SUSTAINABILITY IN REQUIREMENTS

Blekinge Institute of Technology, BTH, Sweden

MAIN RESEARCH QUESTION

"How can requirements guide sustainable product development?"



Exploratory study
Conceptual & Systematic
Literature reviews
Define research gap

State of the art

Addressing the gap

Prescriptive study

Sustainability knowledge elicitation method Application of Systems thinking and dynamics in product requirement management

AIMS & EXPECTED OUTCOME

- Identify gaps in literature and industry for achieving sustainable product development through requirement management models.
- Identify challenges and opportunities in current practices to addressing sustainability in requirements from a strategic sustainability perspective.
- Develop method for scenario exploration and visualisation of relationships between sustainability criteria and traditional design variables.
- Contribute to knowledge on interfaces between sustainability, risk, value and product requirements

Testing & validation

State of practise

Descriptive studies
Interviews
Cross-case analysis
Establish theoretical framework



How to integrate sustainability criteria into design requirements



Understanding sustainability in requirements using a systems perspective



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