

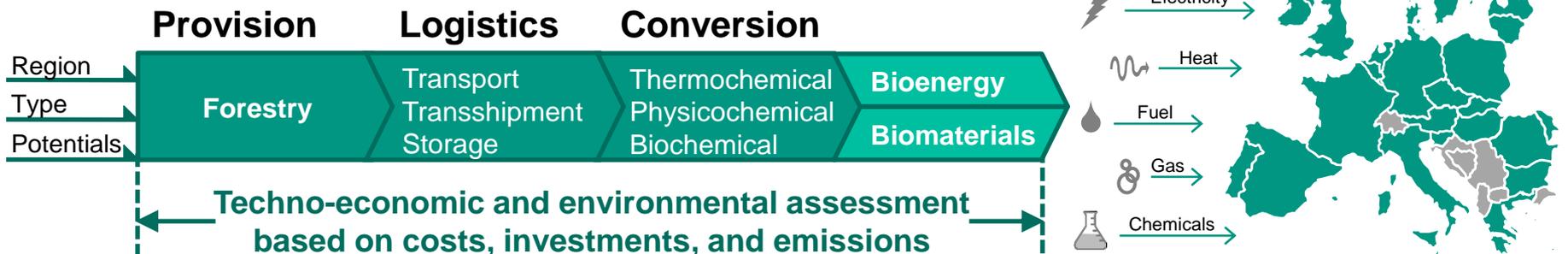
Project idea

Evaluating innovative forest-based bioeconomy pathways by combining techno-economic and environmental assessment (EIFEL)

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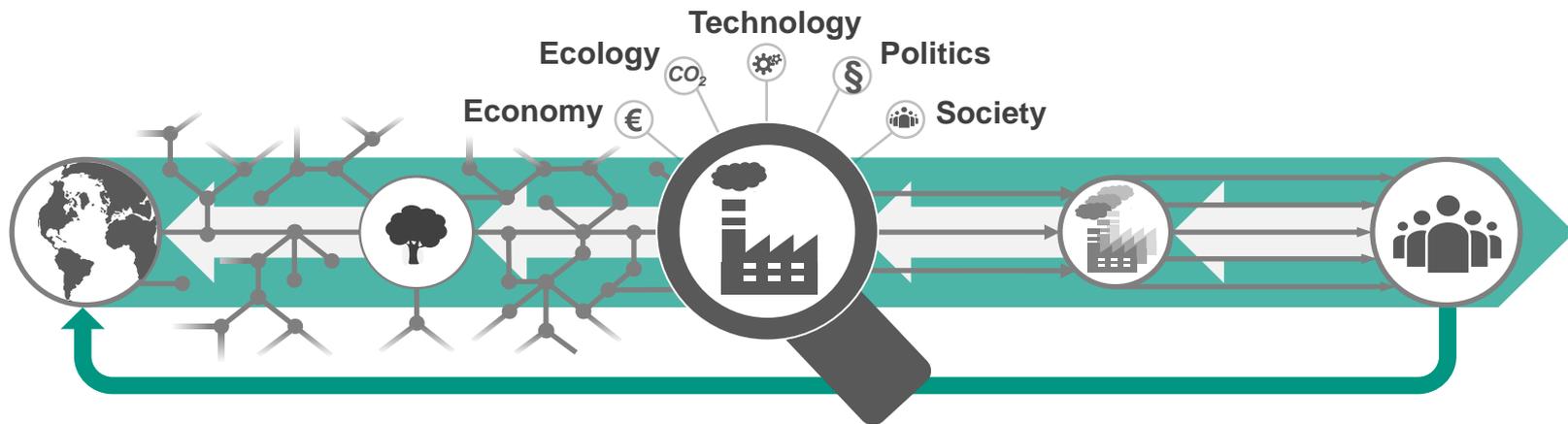
Quantitative planning and optimization of forest-based value chains



Competence

- Evaluation of biomass-based value chains
 - Techno-Economic Assessment (TEA) of biomass utilization pathways
 - Life Cycle Assessment (LCA) of biomass conversion processes

Quantitative planning and optimization approaches are developed using methods from business administration, operations research, engineering, natural, and environmental sciences to provide decision support.



- Relevant projects
 - Bioeconomy Baden-Wuerttemberg: Modelling the bioeconomy
 - TEA & LCA of the lignocellulose biorefinery concept

Need of collaboration

■ Technical partner

- Development of innovative conversion processes for bioenergy & biobased material production (lab-scale, demonstration, commercial)
- Design and implementation of conversion plants
- Estimation of process costs and investments

■ Partner from forestry

- Estimation of resource quantities (wood, wood residues, etc.)
- Estimation of resource costs and transition potentials

■ Energy supply partner (for bioenergy production)

- Feed-in of bioenergy (heat and power)
- Estimation of regional bioenergy demand and bioenergy prices