FLORIAN DIERICKX

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ADAPTECONII - PROJECT 6

ADAPTECONII RESEARCH FOCUS

Florian Dierickx is analyzing the degree of recycling, material circularity and energy flows between sectors in the EU, with the goal of assessing the interdependencies between economic sectors with regard to energy and material use and the impact of material lifetime, availability of materials and energy carriers and material cycling on energy provisioning. More specifically, he will look at how insights from ecological network analysis, ecological models and process control techniques applied on physical input-output data of sectoral exchanges in (dynamic) input-output models can help understand how to change the economic structure towards a less energy-intensive and/or GHG-intensive structure. The research links with the ongoing debates on material circularity (circular economy, …) and energy policies (Energiewende, négaWatt, …).

EXPERIENCE

Florian studied bioscience engineering (land- and forest management, environmental engineering and bio-economy and policy) at the University of Antwerp, KU Leuven University and VUB Brussels in Belgium. Key focus areas were the remediation of water, air and soil quality, the study and application of different engineering techniques for environmental analysis, ecotoxicology and waste management. Additionally, he focused on GIS software, economics and natural hazards, and carried out his master thesis on the socio-economic consequences of landslides in Uganda. Before starting the PhD, he worked as an Associate Project Officer in the section on Earth Sciences and Geo-Hazards Risk Reduction at UNESCO in Paris, on different projects related to disaster risk reduction.

KEY AREAS OF EXPERTISE

- Environmental Engineering and Policy
- Regional Material Flow Analysis
- Input-Output Analysis and Modelling
- Process Control and Ecological Network Analysis
- Materials-Renewable Energy Nexus
- QGIS, R(markdown) and Python

SUPERVISORS

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