

Perspectives of Agent-Based Modelling in Material Flow Analysis

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Material Flow Analysis provides insights into the way materials are used in modern economies. However, these analyses often remain either descriptive or normative, as they stem from a political planner's or a technical perspective and often ignore the economic context and the legislative and institutional framework.

This project focusses on the possibilities and constraints for economical and social actors as regards to a more sustainable management of material flows in the car industry. We analyse if technological potentials can be realised, either in a self-organised way or through political incentives. For this an agent-based computational modelling approach is combined with a traditional system dynamics approach.