Agent-based modelling and material flow analysis in market economies: Some results of the research project AMOSS

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1 The research project AMOSS ("Akteursbasierte Modellierung und Steuerung von Stoffstrominnovationen", translation: Agent-based modelling and management of material flows) has been funded by the German Ministry for Education and Research. It deals with the recycling potential of two major material flows associated with the car industry: plastics and tyres. This interdisciplinary research project pursued a new modelling methodology combining agent-based simulation and life cycle analysis. This methodology is used as a basis for a multidimensional analysis of material flow scenarios covering economic and environmental impacts. Scenarios include the replication of historic developments and an assessment of policy tools.