



Project „Flexible Assembly Processes for the Car of the Third Millennium (MyCar)“

Problem Description

Environmental Optimization Tool

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... Why do we need an **environmental optimization tool
To evaluate the environmental impact of different
assembly lines?**

Problem background

- Good image
 - Environmental sustainability is more important now than ever, due to the increasing awareness of the public
 - There are environmental concerns like emissions of greenhouse gas, scarcity of resources and pollution
- Marketing
 - Green operations may be arguments for marketing of goods and services
- Production process(es)
 - Increased energy and material costs due to potential depletion of resources
 - Non-value adding set-up times when changing tools
- Tools
 - Tools for assessment of environmental impact are available on the market, but they are not adapted to production purposes

Objectives

- Develop a systematic and simplified method for assessment and optimization of environmental performance of a production setup
- The method can be used as a structured guideline and a decision-making tool when designing a new production setup or upgrading of existing production line