


 **Technische Universität Braunschweig**

 **International Society for Industrial Ecology**

**Institute of Machine Tools and Production Technology** 




**Session 4: GLOBAL WARMING, ENERGY AND THE CIRCULAR ECONOMY**  
**Industrial Ecology:**  
**Science, the Environment and the Circular Economy, April, 25<sup>th</sup>, 2016**


Prof. Dr.-Ing. Christoph Herrmann  
Institute of Machine Tools and Production Technology  
Chair of Sustainable Manufacturing and Life Cycle Engineering


**Agenda**

- 1 As-Is Situation - Using Automotive Industry as Case Study
- 2 Existing Trade-offs and Methods/Tools to support Decision Making
- 3 Transition towards Electric Vehicle
- 4 Future Trade-offs and Methods/Tools to support Decision Making

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Session 4: Global Warming, Energy and the Circular Economy | Prof. C. Herrmann  
3. Oktober 2016 | Slide 2

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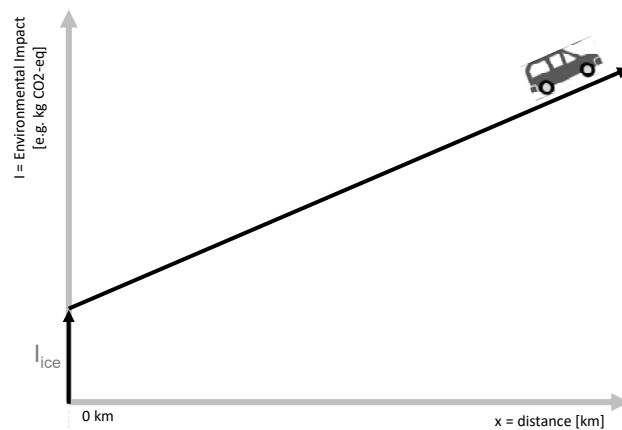
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## As-Is Situation - Using Automotive Industry as Case | Focus: Reduction of GHG during the use phase



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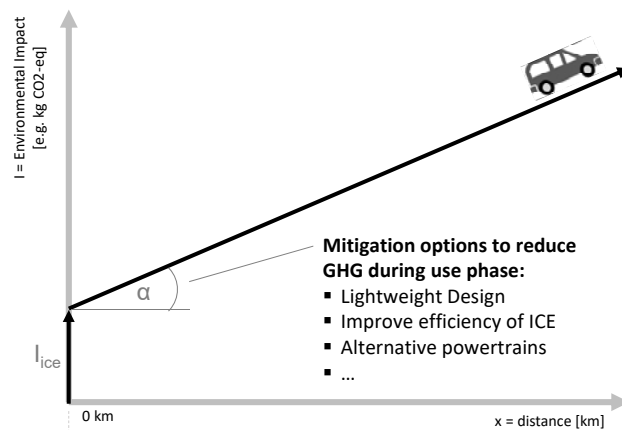
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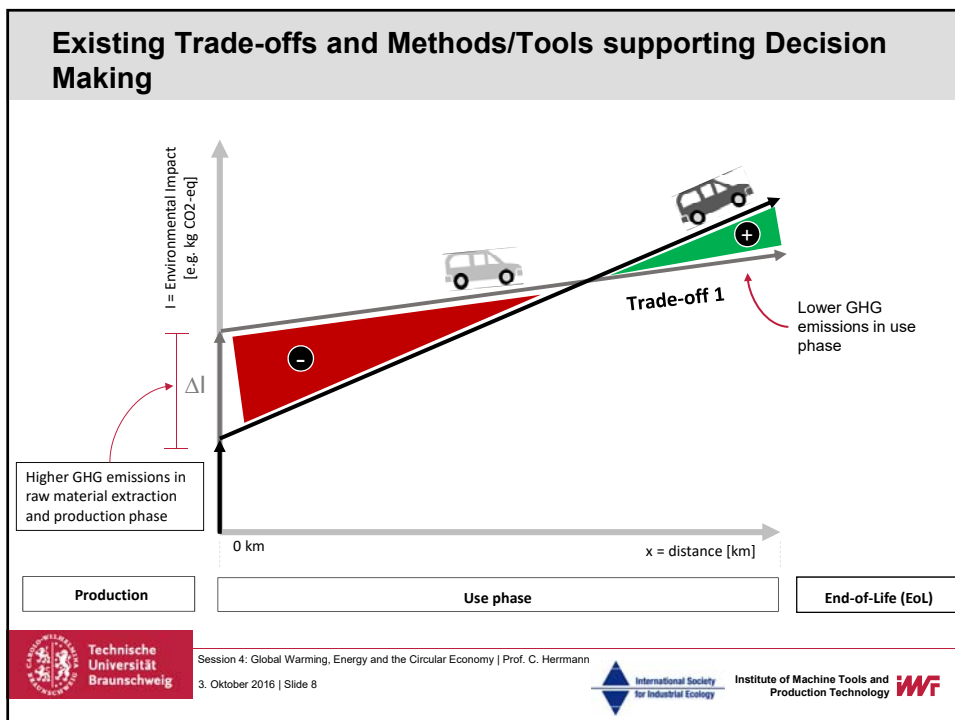
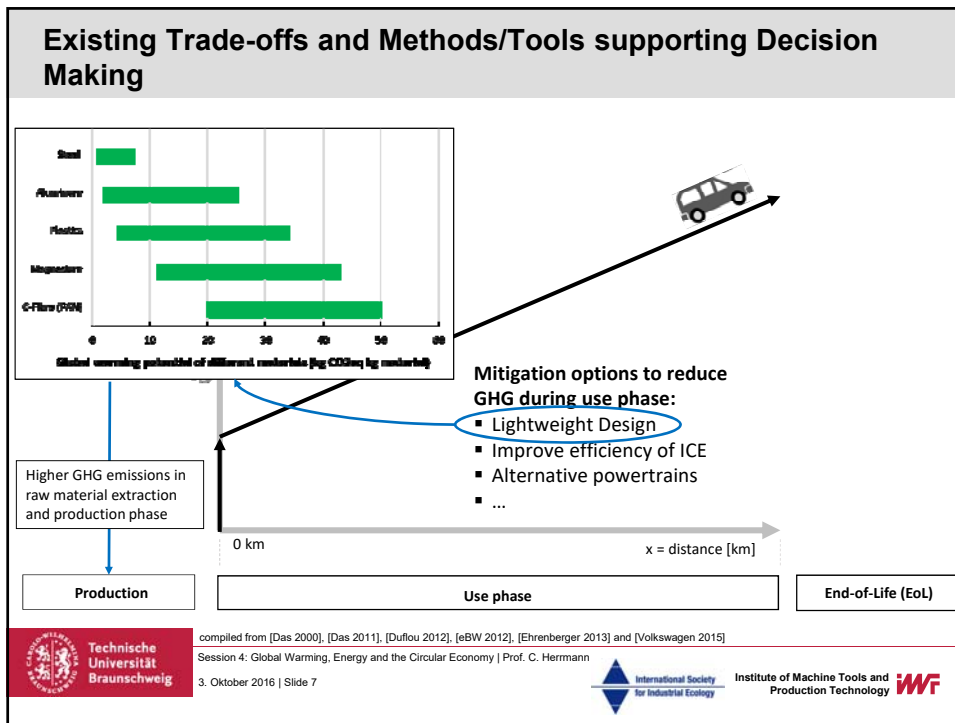
## Existing Trade-offs and Methods/Tools supporting Decision Making

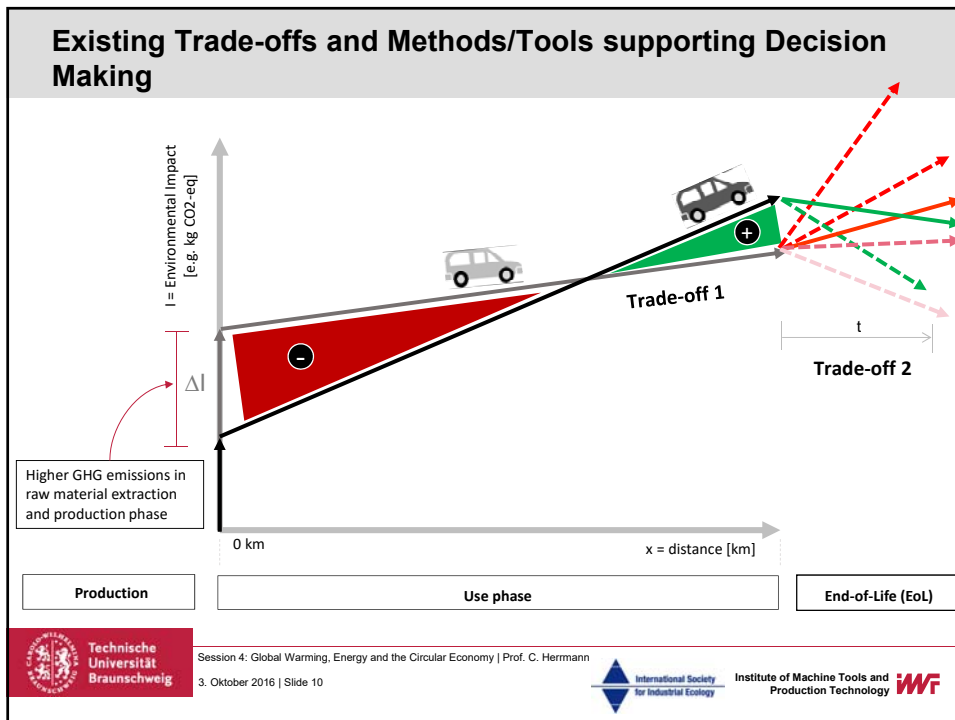
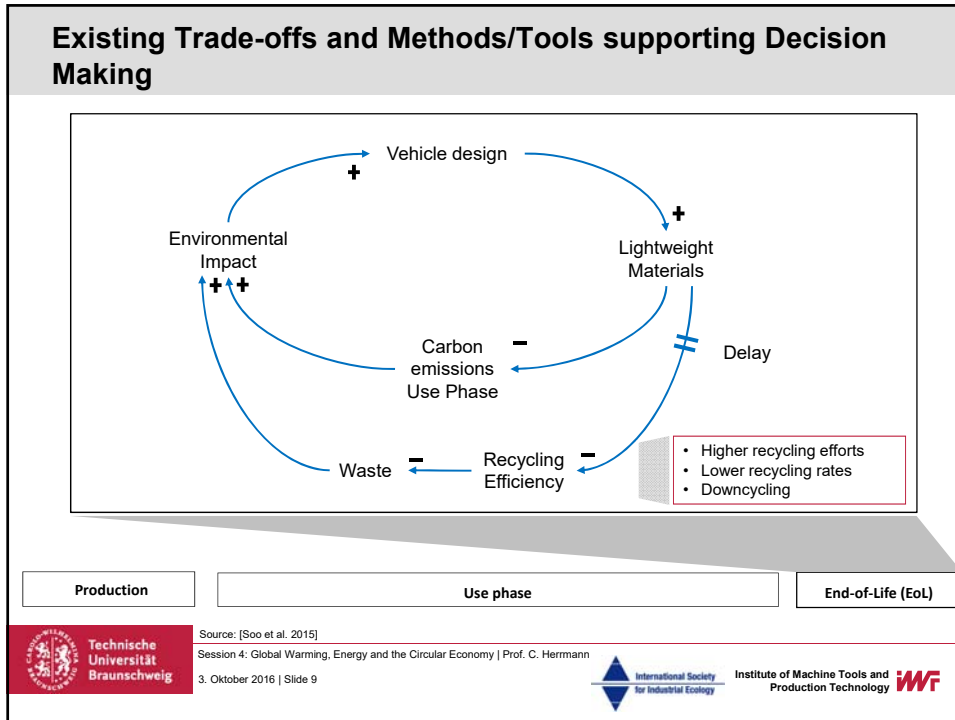


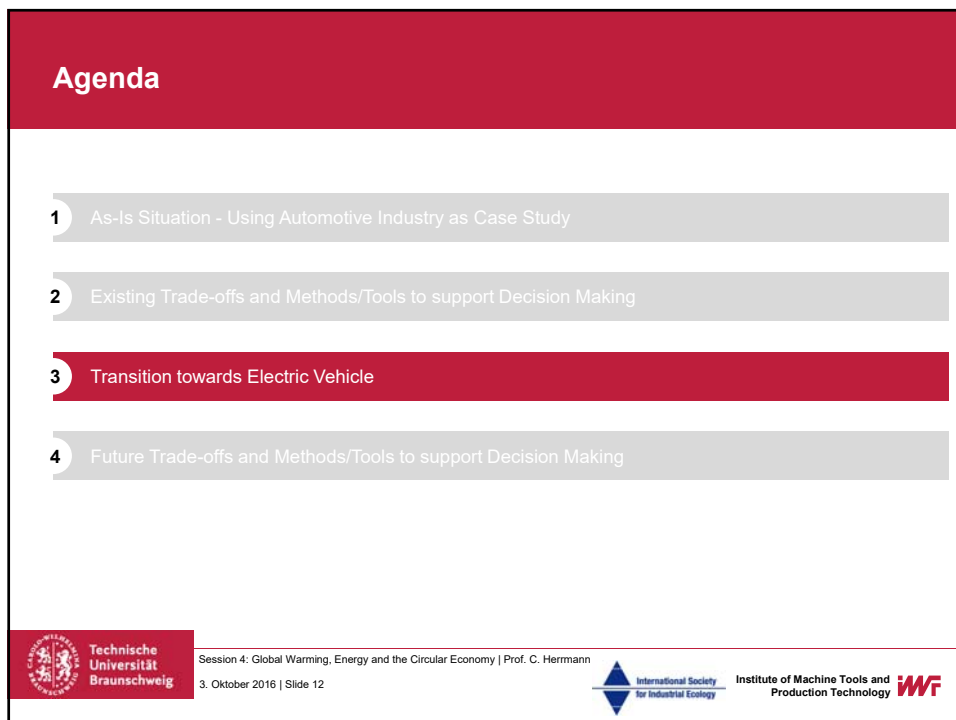
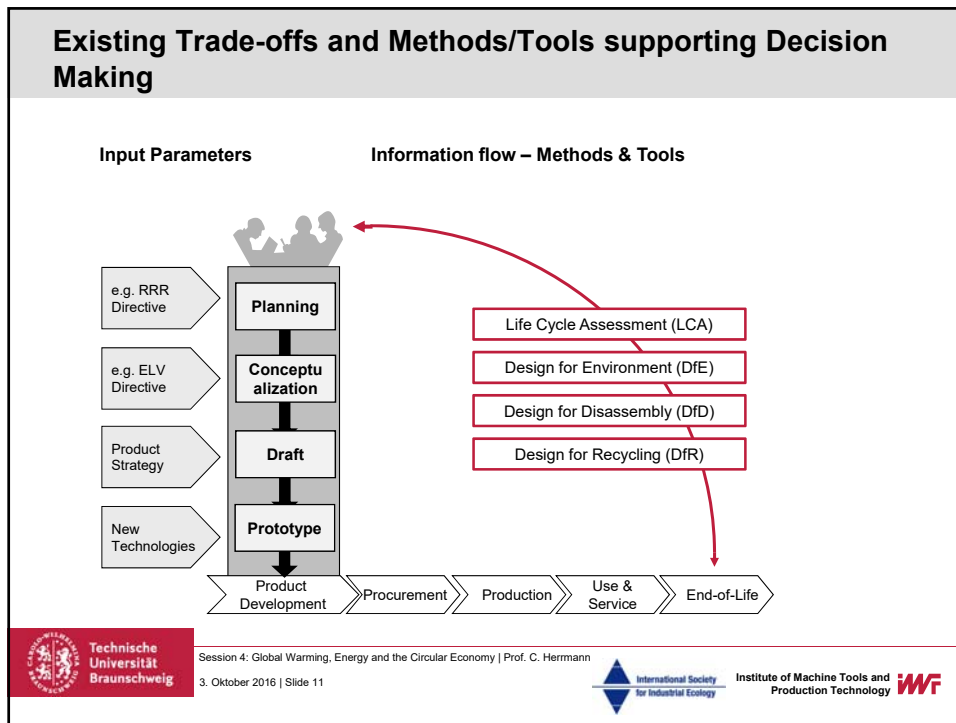
Production

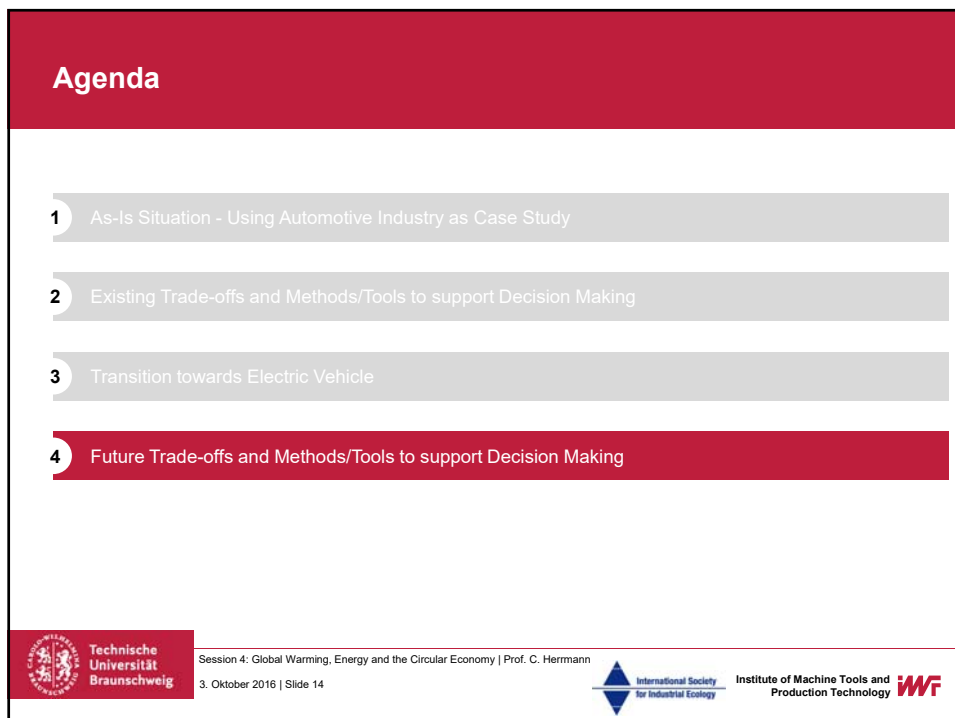
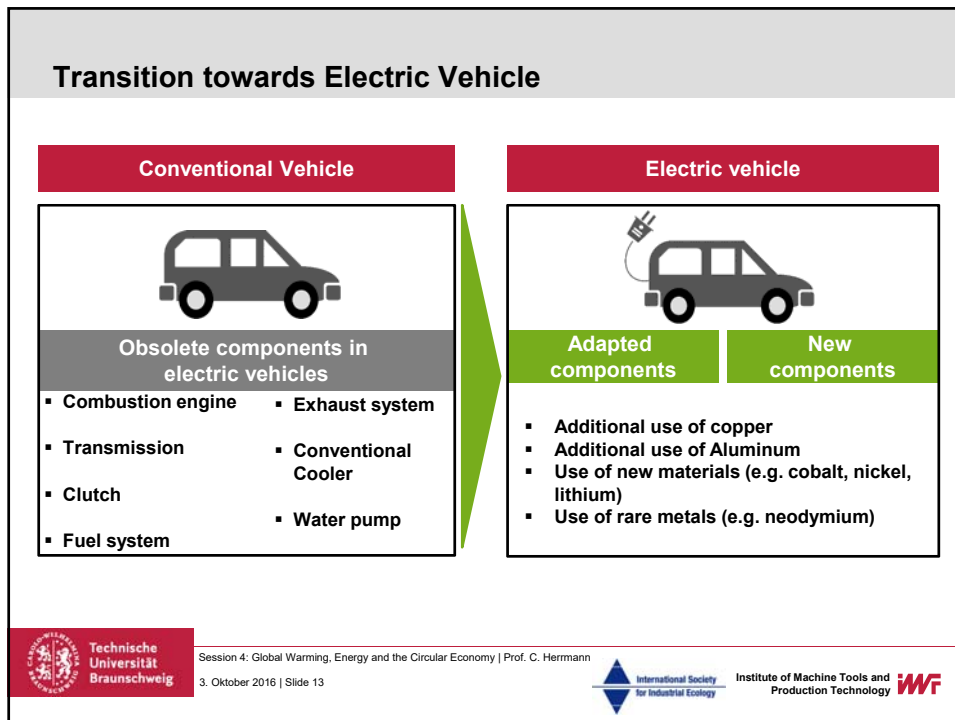
Use phase

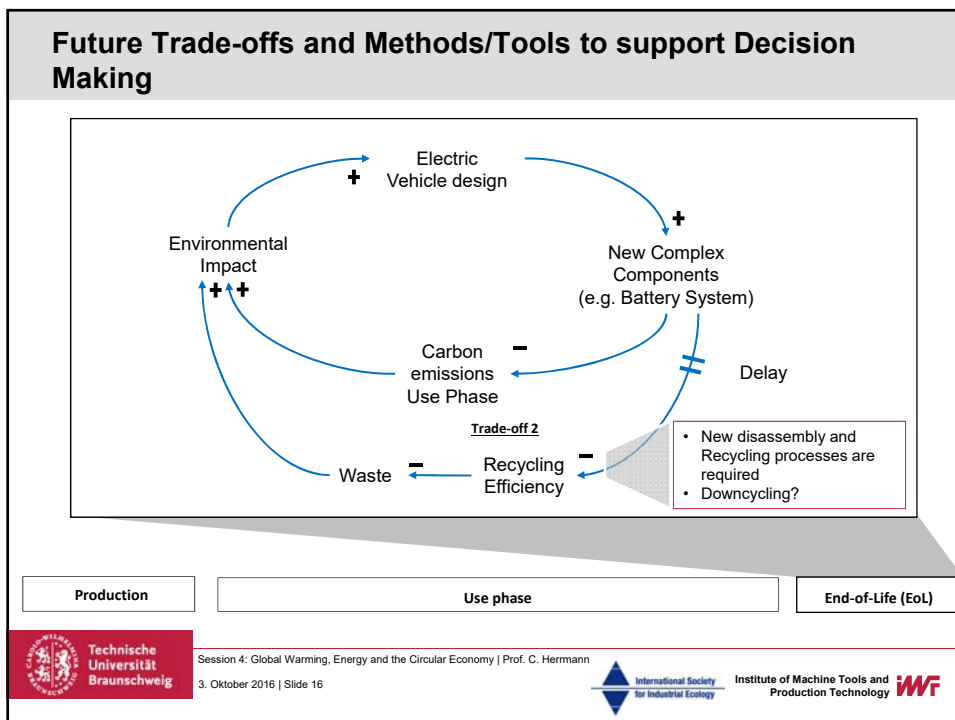
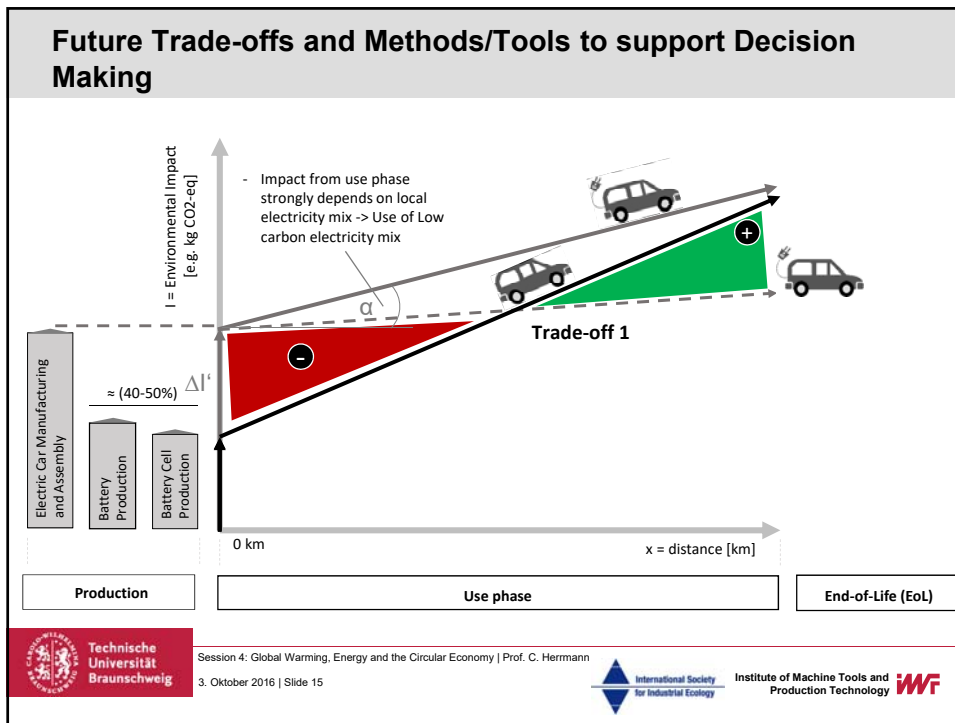
End-of-Life (EoL)



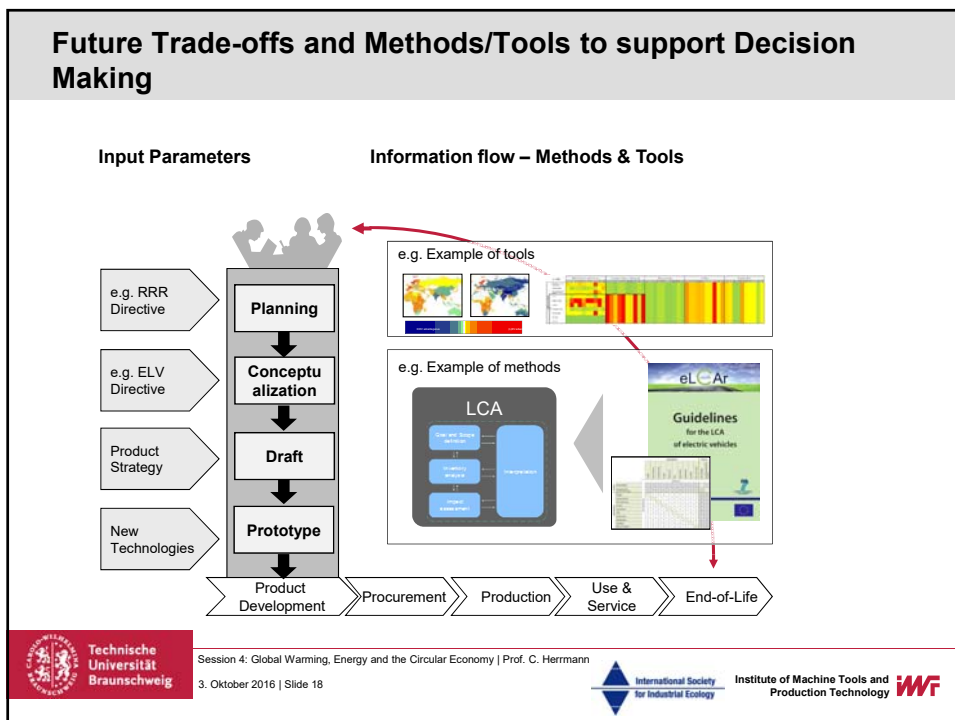
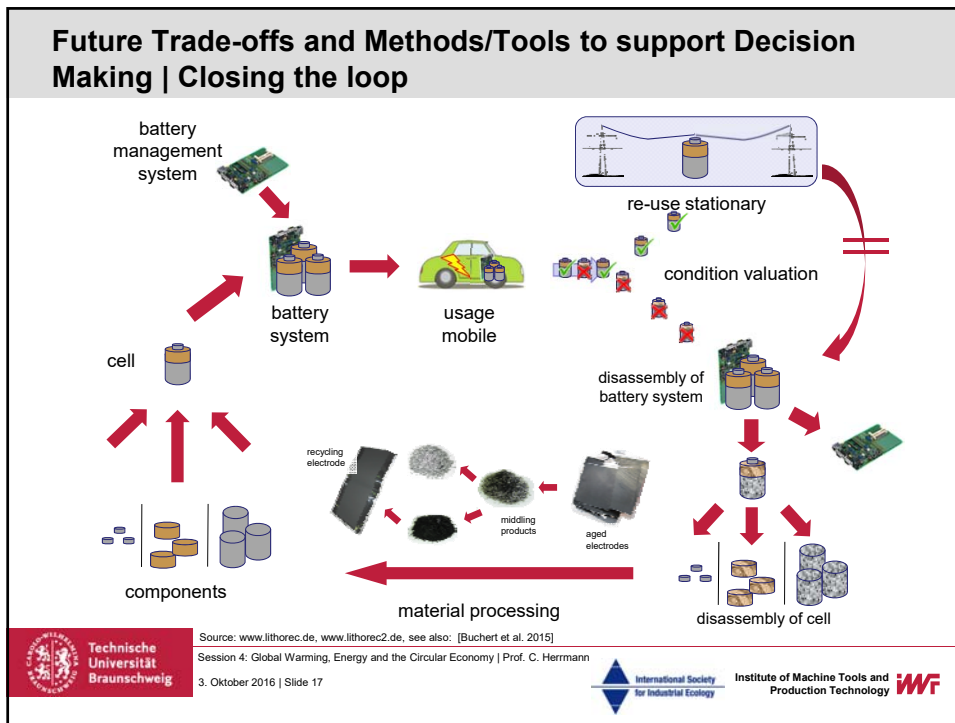


















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**Thank  
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