

## Measuring and Monitoring Progress Towards the Circular Economy - Application to the Heavy Vehicle Industry

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#### ▶ To cite this version:

Michael Saidani, Bernard Yannou, Yann Leroy, François Cluzel. Measuring and Monitoring Progress Towards the Circular Economy - Application to the Heavy Vehicle Industry. PhD Student-Company Meeting Day, Apr 2018, Gif-sur-Yvette, France. hal-01954813

HAL Id: hal-01954813

https://hal.science/hal-01954813

Submitted on 20 Dec 2018

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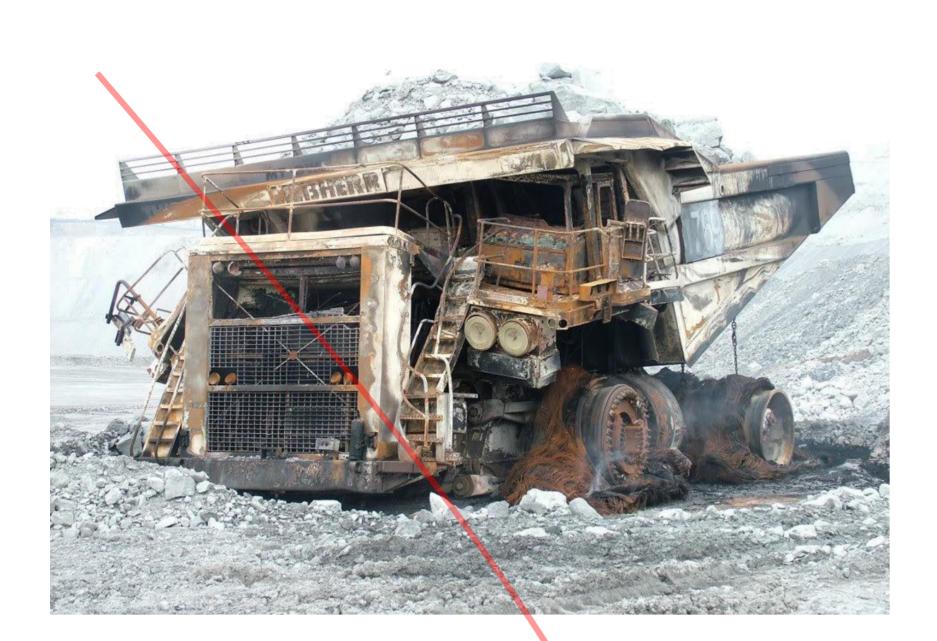
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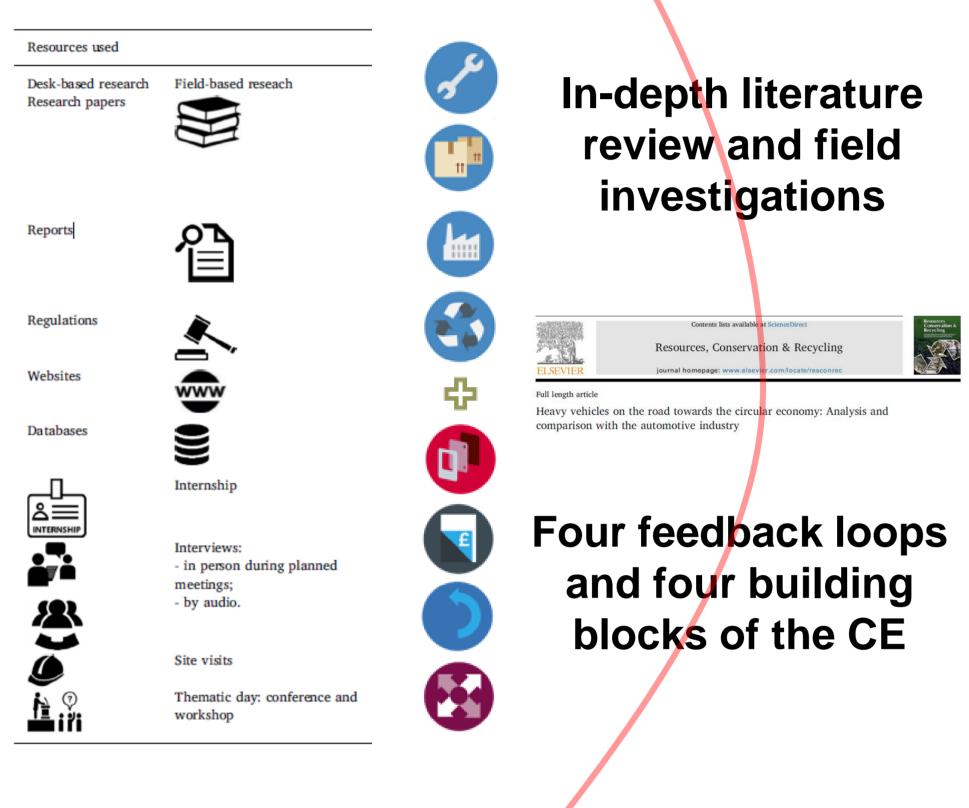
# Measuring and Monitoring Progress Towards the Circular Economy (CE)

Application to the Heavy Vehicle Industry

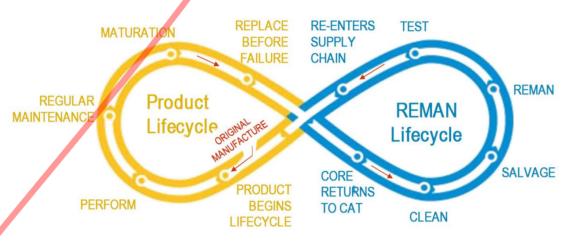
## **Towards** a Circular Economy of Heavy Vehicles

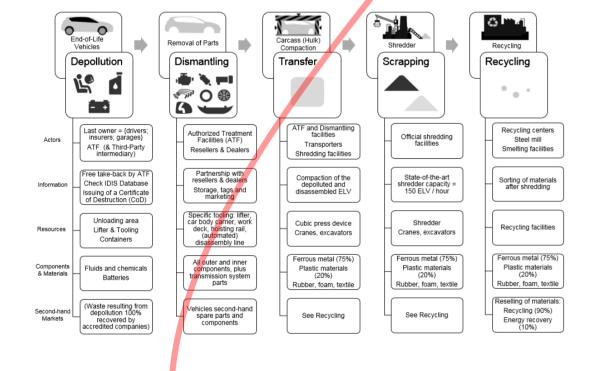


Absence of EoL regulations, lack of infrastructures, illegal exports, env. burden, eco. loss, etc.



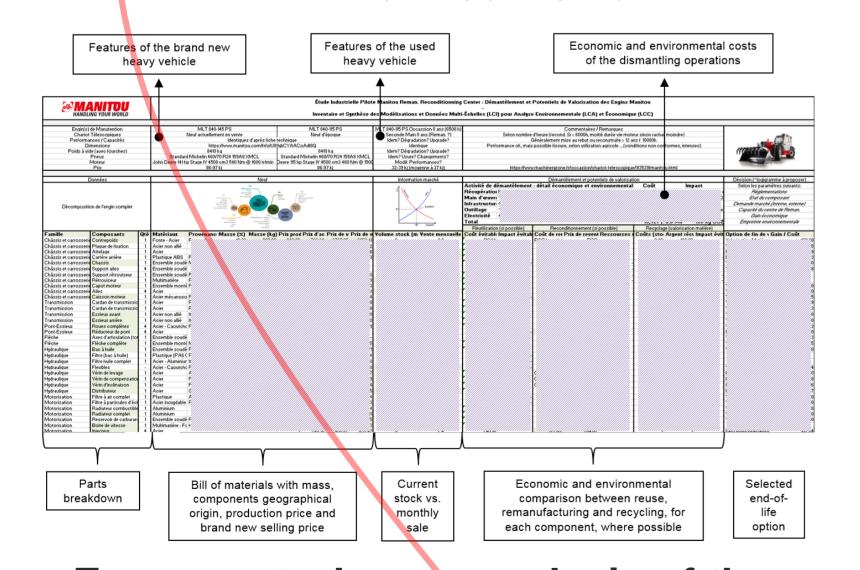
**Identification of** best practices and key action levers to close-the-loop





Comparison with the automotive industry

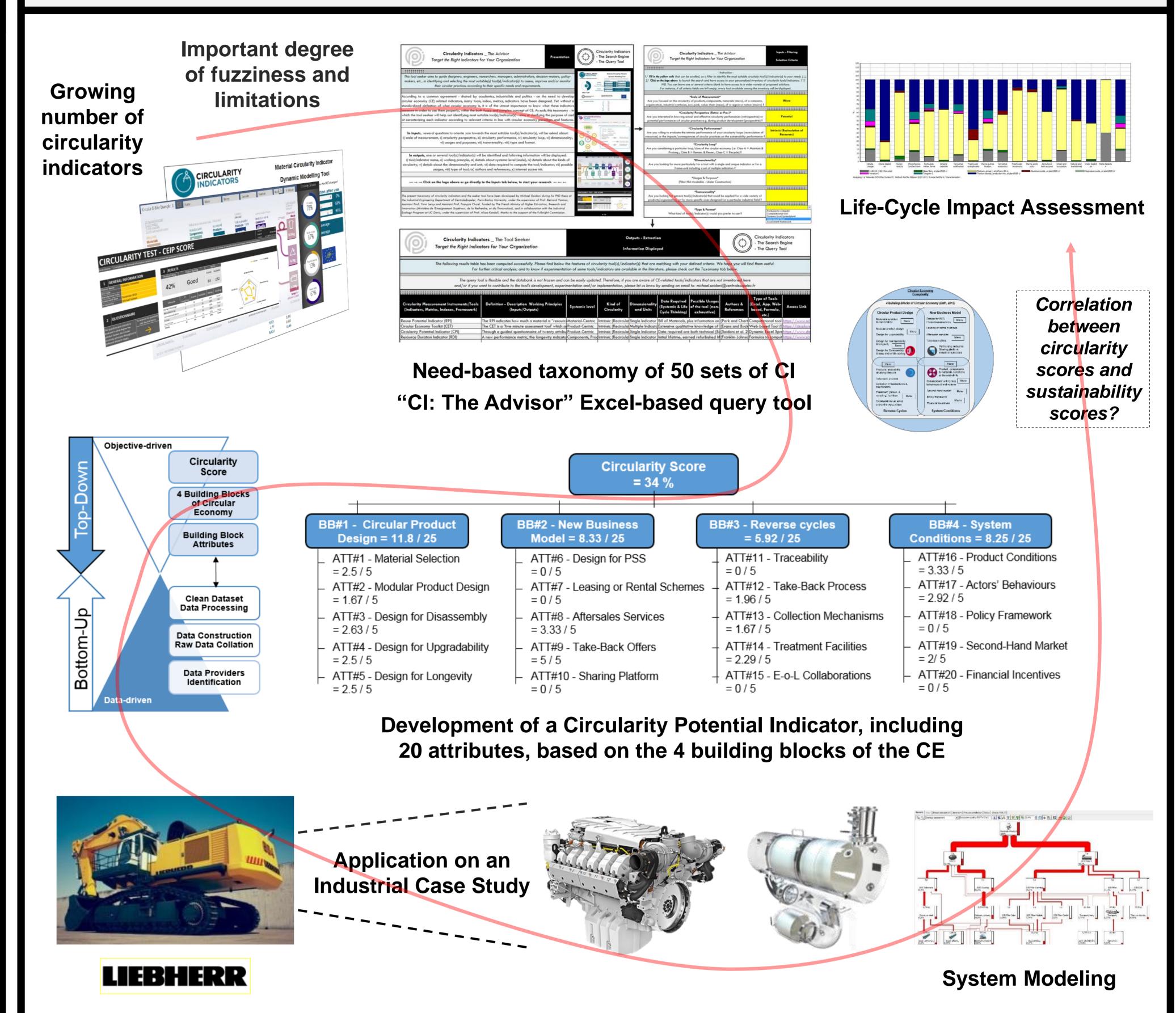
#### Application on an industrial pilot study with Manitou Reman



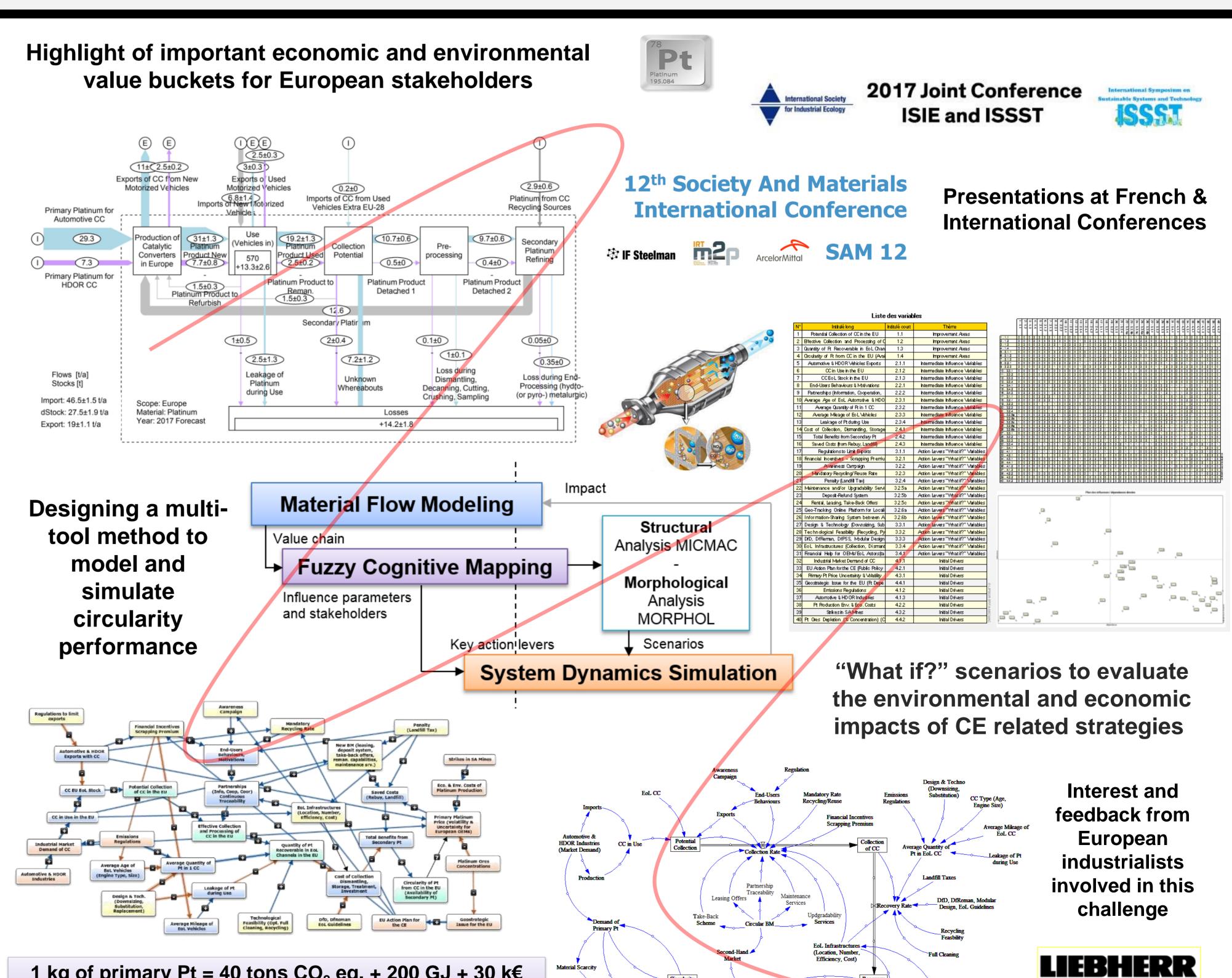
Eco, env, tech, org, analysis of the reconditioning of a used machine



### Assess - Circularity Indicators adapted to Designers and Industrialists



#### Improve - How to "Close-the-Loop" on Platinum from Catalytic Converters?







JM 🕸

Johnson Matthey

Precious Metals Management

1 kg of primary Pt = 40 tons CO<sub>2</sub> eq. + 200 GJ + 30 k€

Technological feasibility to recycle Pt from CC > 95 %

Secondary Pt could divide by 20 the environmental cost