**Maintenance & Repair Cost Calculation**

**Methodology**

- Bottom-up cost calculation
- 70 individually assessed components based on mean distance/time between failures (MDBF/MTBF)

**Result**

- Electrified powertrains with lower Maintenance & Repair costs
- If major components have to be replaced, benefits are expected to be overcompensated

![Graph showing costs for different powertrain technologies](image)

**Assessment of the Resale Value**

**Methodology**

- Regression analysis based on market data
- Determination of a scale factor by means of the fuzzy logic considering the variables infrastructure density and technology maturity

**Results**

- The residual value can be determined as an exponential function
- Alternative powertrains show faster depreciation rates depending on the infrastructure density and the technology maturity

![Graph showing residual value over total mileage](image)

**Conclusion**

- By the use of the Maintenance & Repair cost calculation methodology and the resale value approach required data in order to enable a holistic cost assessment for commercial vehicles can be provided