The Hybrid Innovations for Trucks (HIT) project to reduce fuel consumption and CO2 emission by 7%.

Evaluating automotive software quality is crucial due to the increasing number and complexity of electronics and software systems in automobiles.

Context

Approach and Results

An Automotive Quality Model

Maintainability
- Modularity
- Reusability
- Analyzability
- Modifiability
- Testability

2 metrics

Usability
- Understandability
- Learnability
- Operability

2 metrics

Performance
- Efficiency
- Time behaviour
- Resource utilization
- Capacity

3 metrics

Portability
- Adaptability
- Replaceability

2 metrics

Robustness
- Reachability

1 metric

Reliability
- Maturity
- Availability

2 metrics

References