

Tech Mahindra

SIMULATION DRIVEN PRODUCT DEVELOPMENT

OFFERINGS

Regulatory compliance for Automotive Crash & Safety: All geographies

Ground up Vehicle Simulation - Concept to SOP Advanced durability / near life evaluations & test correlation using virtual road data

Design for Acoustic performance & optimization

Use of data science in CAE for faster & lesser iterations

Ride & Handling performance optimization

VALUE PROPOSITION

15 - 20%

Reduction product development time

15 - 20%

Reduction of testing expenses



Improved fuel efficiency through aerodynamic & weight optimization



10%

Structure weight/cost optimization additional through MDO compared to conventional optimization

90%+

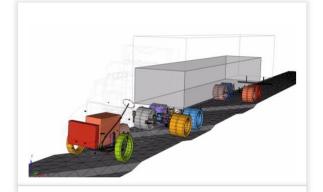
Accuracy of for durability predictions and crash performance evaluation

CREDENTIALS

Durability, Ride & Handling Crash performance & NVH

30% lead time reduction

Developing best in class comfort (Ride Quality Index)

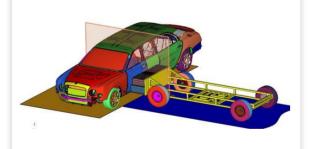


Structural performance of vehicle

Class 8 Truck Simulation for NA OEM

Under hood flow & Aerodynamics optimization

- Testing for A UK Luxury Car OEM
- Durability & Crash performance
- NVH, Weight optimization
- Achieved 95% correlation minimize physical testing and cost by 14%



Vehicle Structure & Acoustic NVH

- Vehicle Structure & Acoustic NVH Simulations Full Vehicle Level for an India OEM
- Reduction by 1.5 Db



15+ Commercial Vehicle programs

7+ Passenger Vehicle programs

