SIMULATION DRIVEN PRODUCT DEVELOPMENT

OFFERINGS

- Regulatory compliance for Automotive Crash & Safety: All geographies
- Use of data science in CAE for faster & lesser iterations
- Ride & Handling performance optimization
- Advanced durability / near life evaluations & test correlation using virtual road data
- Design for Acoustic performance & optimization

Ground up Vehicle Simulation – Concept to SOP

Connected World. Connected Experiences.
VALUE PROPOSITION

15 - 20%
Reduction product development time

15 - 20%
Reduction of testing expenses

4%
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

Developing best in class comfort (Ride Quality Index)

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CREDENTIALS

Class 8 Truck Simulation for NA OEM
- Durability, Ride & Handling
- Crash performance & NVH
- Under hood flow & Aerodynamics optimization
- 30% lead time reduction

Structural performance of vehicle
- 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