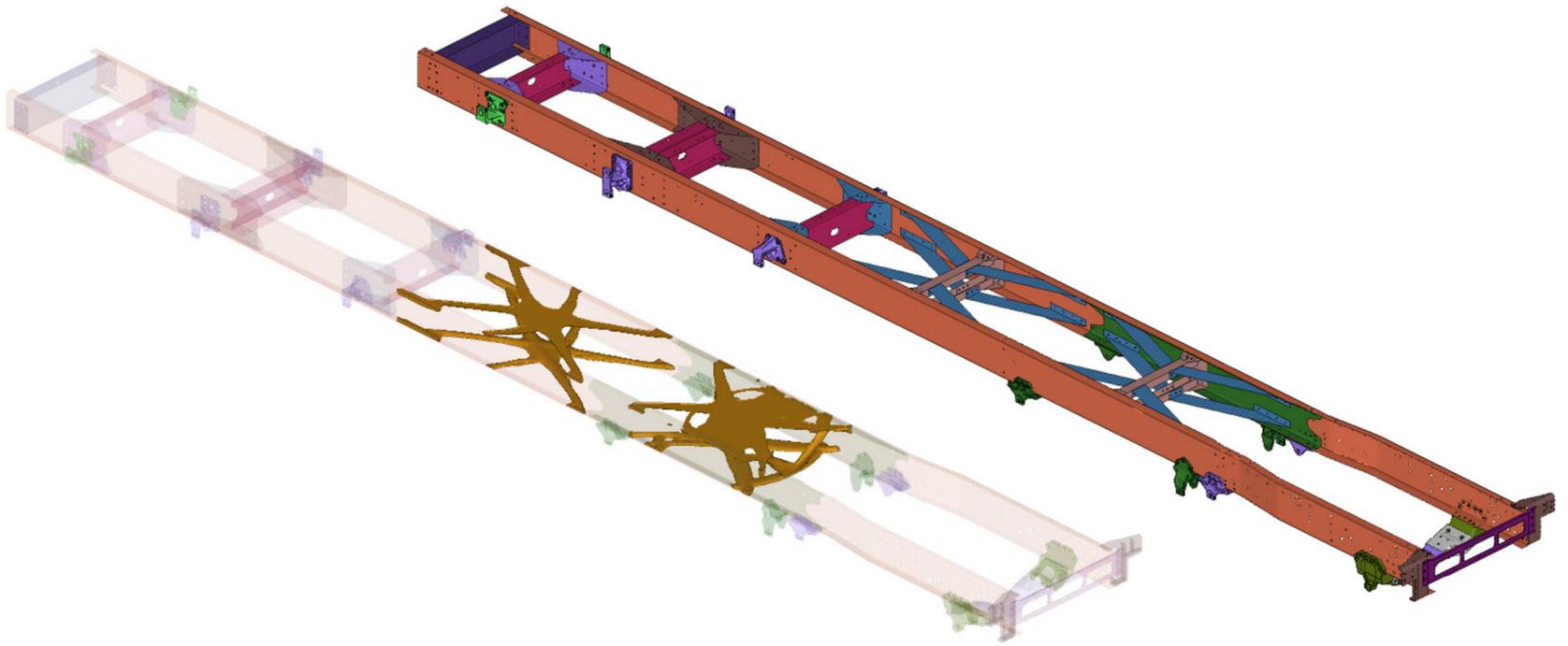


2016 Enlighten Award Nominee



VE Commercial Vehicles Heavy Duty Truck

VE COMMERCIAL VEHICLES
A VOLVO GROUP AND EICHER MOTORS JOINT VENTURE

VE Commercial Vehicles achieved a significant weight saving for its 31 Ton 8x2 Vehicle whole frame by utilizing design optimization techniques. The frame was given as a design space and optimal Cross member position and shape were extracted. As a result, the frame was changed completely from a Ladder Structure to X-Type Structure. This led to a weight saving of 160kg and improved frame stiffness leading to better ride and handling characteristics.

Category:
Full Vehicle

Application:
2016 VE 8x2 Truck

Weight Savings:
106kg weight reduction
compared to steel model

Methodology:
Material Replacement

Presented in collaboration with:

CAR
CENTER FOR AUTOMOTIVE RESEARCH