

## Case Study– Design & Development of Fleet Body Truck

### Design & Development of Fleet Body Truck



#### Business Challenges

- To develop 3D environment from old 2D drawings which merely had hand made mark-ups for general shape
- Precisely managing 2D data conversion to 3D environment
- Communization of parts
- Library creation of purchased items
- Standardization of sheet metal components with respect to..
  - a) Forming
  - b) Bending
  - c) Nesting



#### Technosoft Solution

- Optimization of Bill of Material with respect to standard parts and use of components across design variants
- Well-structure and sub-assemblies definitions
- Surface modeling of driver's cabin/body systems
- Interior component design
- Reduced overall model creation time for each frame, by implementing Top-down modeling approach with 'Feature Naming practice'



#### Business Impact Delivered

- Produced new, cost-effective design that consumed half as much material, thus significantly decreasing the client's exposure to future material costs
- Ability to modify designs to suit manufacturability adding flexibility
- Efficient standardization of CAD data at customer location
- Converted large set of 2D data to 3D CAD in a challenging timeline & process requirements

