A simple way to increase efficiency and quality and learn more about your products before they actually exist.

With Digital Mock-Up (DMU) you will increase your knowledge of your products in the early phases of their lifecycles. Volvo IT offers a service for easy analysis and visual representation of product data in three dimensions. This will cut your development costs and shorten lead-times.

A Digital Mock-Up is a virtual version of your physical product. Digital Mock-Up creates new conditions for development by utilising digitally stored data to visually represent models of products or production processes in three dimensions. DMU is used as a tool for the integration of product data and has the following functions:

- Enables integration of CAD and PDM processes.
- Analysis and verification of virtual test objects instead of physical ones.
- Simulation of products and production processes in a factory.
- Visual representation in three dimensions of products intended for the aftermarket.

What is it used for?
With DMU you can make the simulations needed for product development, manufacturing and aftermarket. DMU is the base for collaboration, communication and decision-making in the product development and manufacturing processes. By using DMU you ensure that everybody gets updated information as early as possible.

DMU in production – Simulation of products and production processes in a plant.
Our services
Volvo IT can offer you an end-to-end DMU solution, or individual services. We can support you in:

• Business analysis
• Change management
• Implementation
• System adaptation
• Training
• Support
• Operations

What your company stands to gain.
Both you and your business partners will see immediate gains using DMU. Order specifications to suppliers will be simplified and become more precise.

Your customers will experience better service thanks to visual access to product data.

• Shorter time-to-market.
• Lower costs for product development and the production process.
• Better comparison of data from different systems.
• Improved quality of information.
• Faster handling of changes with immediate implementation.
• Simpler to create many more advanced alternative designs.
• Enhanced security and accessibility.

With DMU you will be more competitive. You can utilise your skills better and develop your products more efficiently.

Strong partnerships
By strong partnerships with leading vendors, we are able to deliver fast and reliable solutions.

• IBM PLM is a partner to Volvo IT
• Dassault Systems has Volvo IT as its Consult & Service Partner

DMU – Digital Mock-Up
System for visually representing products and processes stored as digital models in three dimensions.

CAD – Computer Aided Design
Collective term for systems intended for designers to describe a design solution or a surface.

PDM – Product Data Manager
System for processing various types of product data.

DMU in product development of a Volvo Truck.