DELMIA’s Transportation & Mobility Final Assembly 3D Validation solution reuses manufacturing knowledge of previous car programs to provide the most cost-effective way to validate the build of a new program. DELMIA’s intuitive 3D interface provides a real-time view of all sourced components of global suppliers and delivers a complete simulation of the assembly line.

DELMIA’s Final Assembly 3D Validation brings OEMs and suppliers together to share a common view of the work being performed and allows them to resolve problems in hours rather than weeks. With DELMIA’s unique 3D environment for planning, balancing and validation, manufacturing engineers can navigate through the assembly line in a 3D context with no extra data preparation. This environment allows for a quick and effective reaction to design changes and reduces the amount of time spent in retrieving data. The end result is a dramatic reduction in time spent validating the plan, allowing more time to be invested in optimizing the plan and improving final quality.
INDUSTRY CHALLENGES

• How to identify and solve assembly problems before the start of production?
• How to balance assembly tasks to maximize resource utilization and production throughput?
• How to strengthen the link between design and manufacturing across an extended enterprise?
• How to identify the impact of design changes on assembly processes?

SOLUTION HIGHLIGHTS

• Assembly processes are simulated and validated in 3D at each station in the line
• Modeling and simulation of mechanical equipment and workers
• Ergonomic assessment to improve factory safety
• Online collaboration and review with engineering, suppliers and plants

SOLUTION VALUES

• Maximize space and resource utilization to increase factory performance
• Quickly and effectively react to design changes to increase plan quality and reduce production delays
• Lower the cost of work-related injuries by introducing assessing ergonomics early in the manufacturing process
• 3D validation of balanced processes minimizes the risk of production problems
• Reuse the 3D plan for documentation or training purposes

USERS

• Final Assembly Manufacturing Engineers
Delivering Best-in-Class Products

Virtual Products

Model and Simulate our Planet

3D Design

Information Intelligence

Realistic Simulation

Dashboard Intelligence

Digital Manufacturing and Production

Social Innovation

Collaborative Innovation

3D Communication

About Dassault Systèmes

Dassault Systèmes, the 3DEXPERIENCE Company, provides business and people with virtual universes to imagine sustainable innovations. Its world-leading solutions transform the way products are designed, produced, and supported. Dassault Systèmes’ collaborative solutions foster social innovation, expanding possibilities for the virtual world to improve the real world. The group brings value to over 150,000 customers of all sizes, in all industries, in more than 140 countries. For more information, visit www.3ds.com.

CATIA, SOLIDWORKS, SIMULIA, DELMIA, ENOVIA, GEOVIA, EXALEAD, NETVIBES, 3DSWYM and 3DVIA are registered trademarks of Dassault Systèmes or its subsidiaries in the US and/or other countries.

Europe/Middle East/Africa
Dassault Systèmes
10, rue Marcel Dassault
CS 40501
78946 Vélizy-Villacoublay Cedex
France

Asia-Pacific
Dassault Systèmes
Pier City Shibaura Bldg 10F
3-18-1 Kaigan, Minato-Ku
Tokyo 108-002
Japan

Americas
Dassault Systèmes
175 Wyman Street
Waltham, Massachusetts
02451-1223
USA

Visit us at 3DS.COM/DELMIA