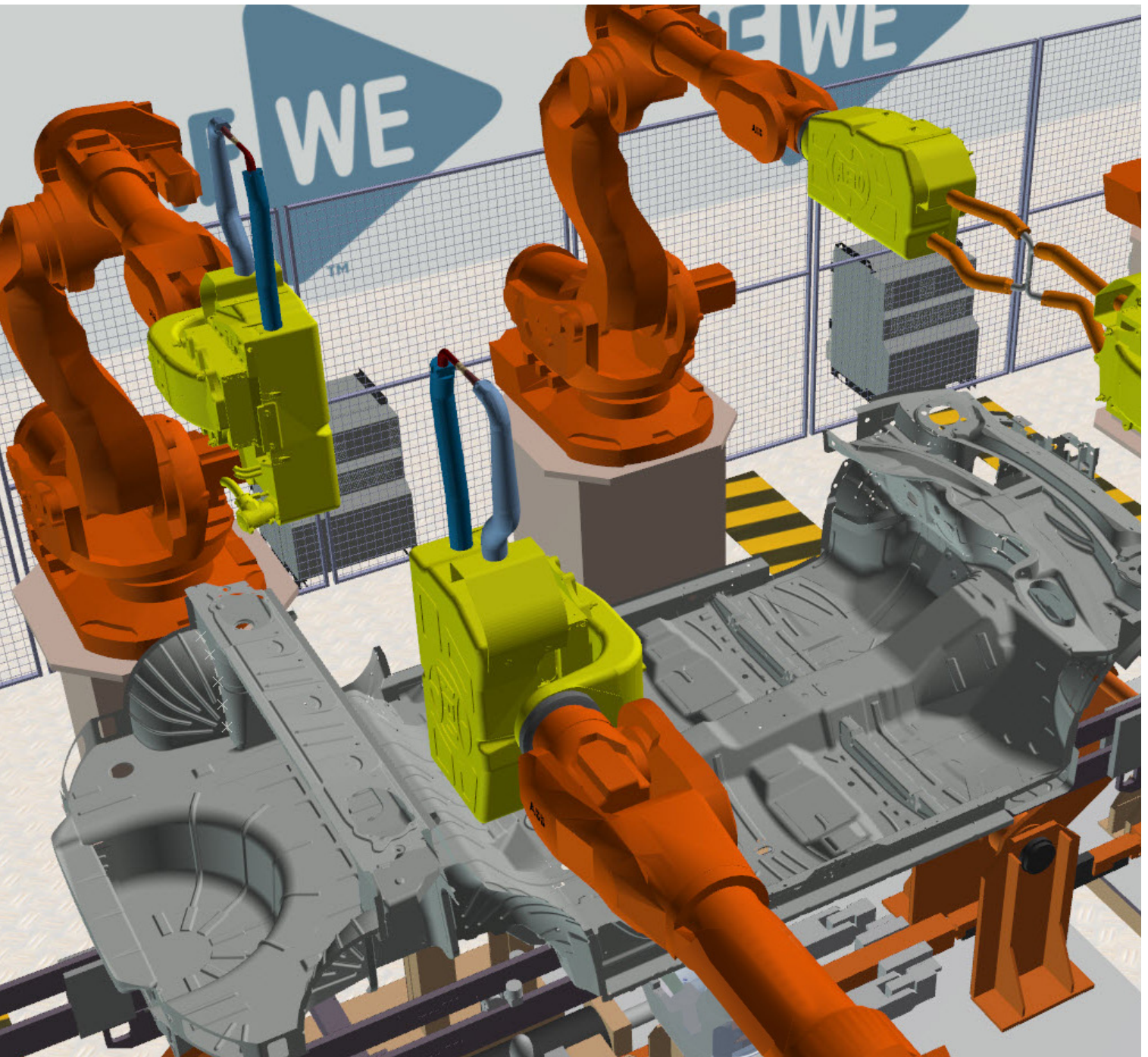


BODY-IN-WHITE MANUFACTURING

TRANSPORTATION & MOBILITY

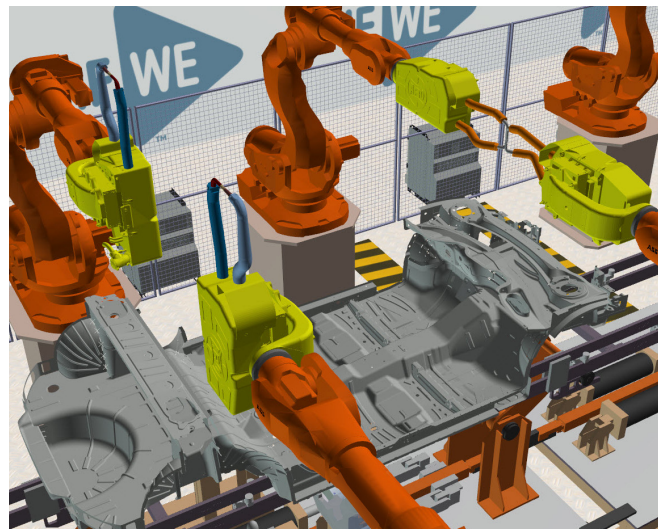


Reduce Planning Errors with Early Phase Validation

DELMIA's Body-in-White Manufacturing solution for the Transportation & Mobility Industry is used by leading global manufacturers to achieve the highest level of productivity and maximum production quality.

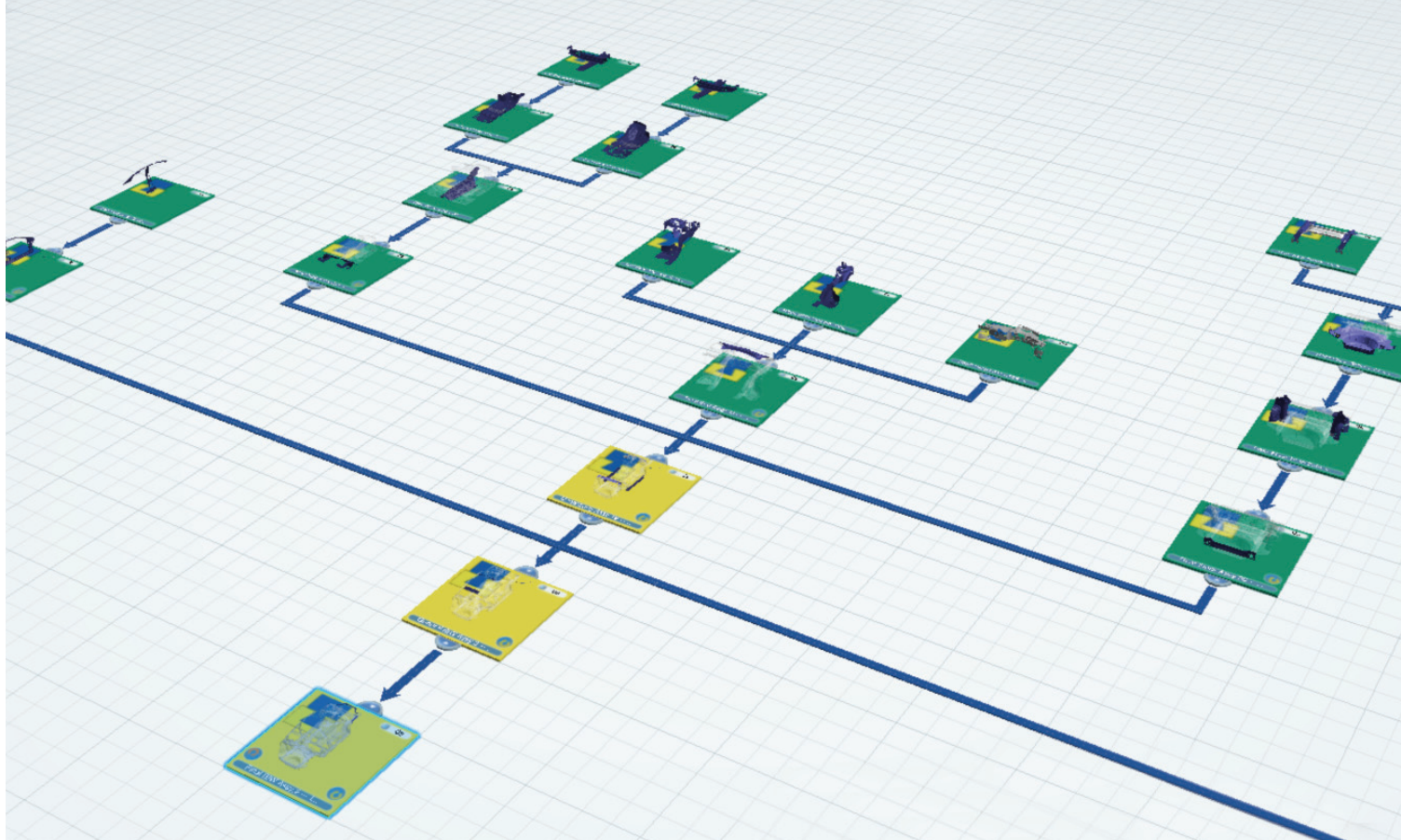
DELMIA's Transportation & Mobility Body-in-White Manufacturing solution provides OEMs and Tier 1 suppliers a collaborative planning solution to design, validate and ensure the quality of the body-in-white assembly manufacturing specifications within a 3D environment.

As the number of car programs increase, so does the number of variants, which puts a strong demand on the need for plant flexibility. DELMIA's Body-in-White Manufacturing solution helps companies standardize and reuse existing processes and resources. The complete manufacturing plan can be validated with 3D simulation of robots, workers, stations and even complete assembly lines. This optimized manufacturing engineering process enables early validation, reduces planning time and improves the quality of planning.



Visualize and validate the assembly steps of the car body.





Reduce planning errors with early phase validation.

INDUSTRY CHALLENGES

- How to engineer products in context of manufacturing constraints for early validation and shorter time-to-market?
- How to capitalize and optimize manufacturing processes to achieve the highest productivity with production quality?
- How to achieve plant flexibility for the increasing number of variants that come with more car programs?
- How to standardize and reuse existing processes and resources from one car program to another?

SOLUTION HIGHLIGHTS

- Physical view of the product structure used as a direct input for BIW assembly planning definition
- Early phase 3D validation of manufacturing assemblies regarding geometry, fasteners and weld gun & tool accessibility
- 3D assembly graph definition to visualize and validate the assembly steps of the car body
- Automatic or manual creation of manufacturing assemblies and assignment of fasteners based on design specifications
- Include fasteners in definition of manufacturing assemblies and visualize them in 3D
- Multi-model and multi-site planning definition
- Station- and line-level simulation
- Robot offline programming

SOLUTION VALUES

- Prevent data duplication and provide an improved product-fastener-process integration and change management solution
- Quickly react to a change and improve quality of planning by reducing planning errors with early phase validation
- Increase plant flexibility to produce more models and save time
- Lower cost of ownership
- Reduce line commissioning time and cost

USERS

- Body-in-White Project Managers
- Body-in-White Assembly Planners
- Body-in-White Robot Programmer
- Body-in-White Simulation Engineer
- Body-in-White Layout Designer



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

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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

