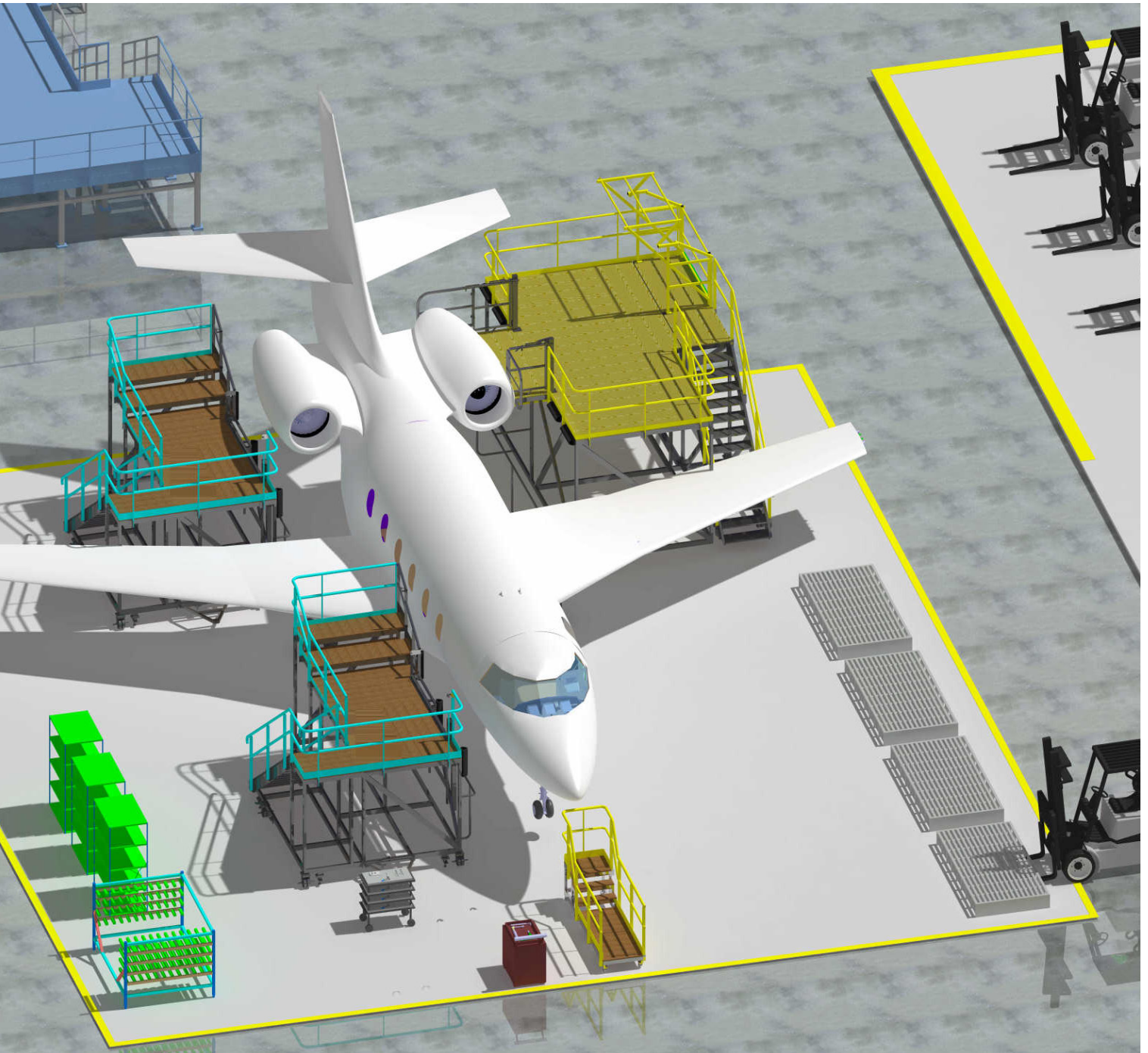# PRODUCIBILITY AND MAINTAINABILITY
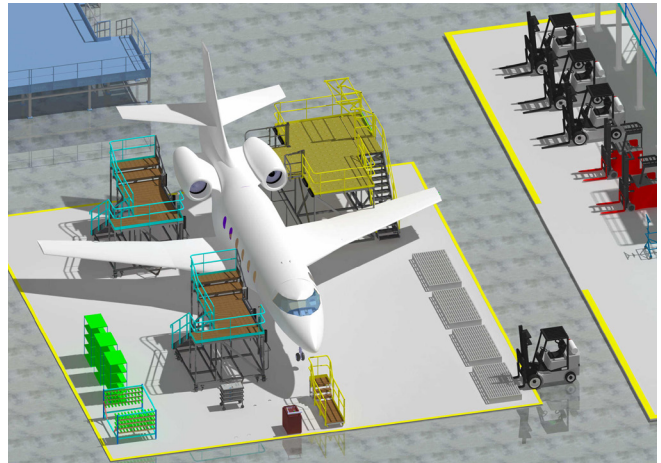## *AEROSPACE & DEFENSE*

Increase Manufacturing and Maintenance Flexibility

DELMIA's Producibility and Maintainability solution for the Aerospace & Defense Industry can transform existing business models into complete offerings that enable OEMs to share, monitor and integrate program deliverables.
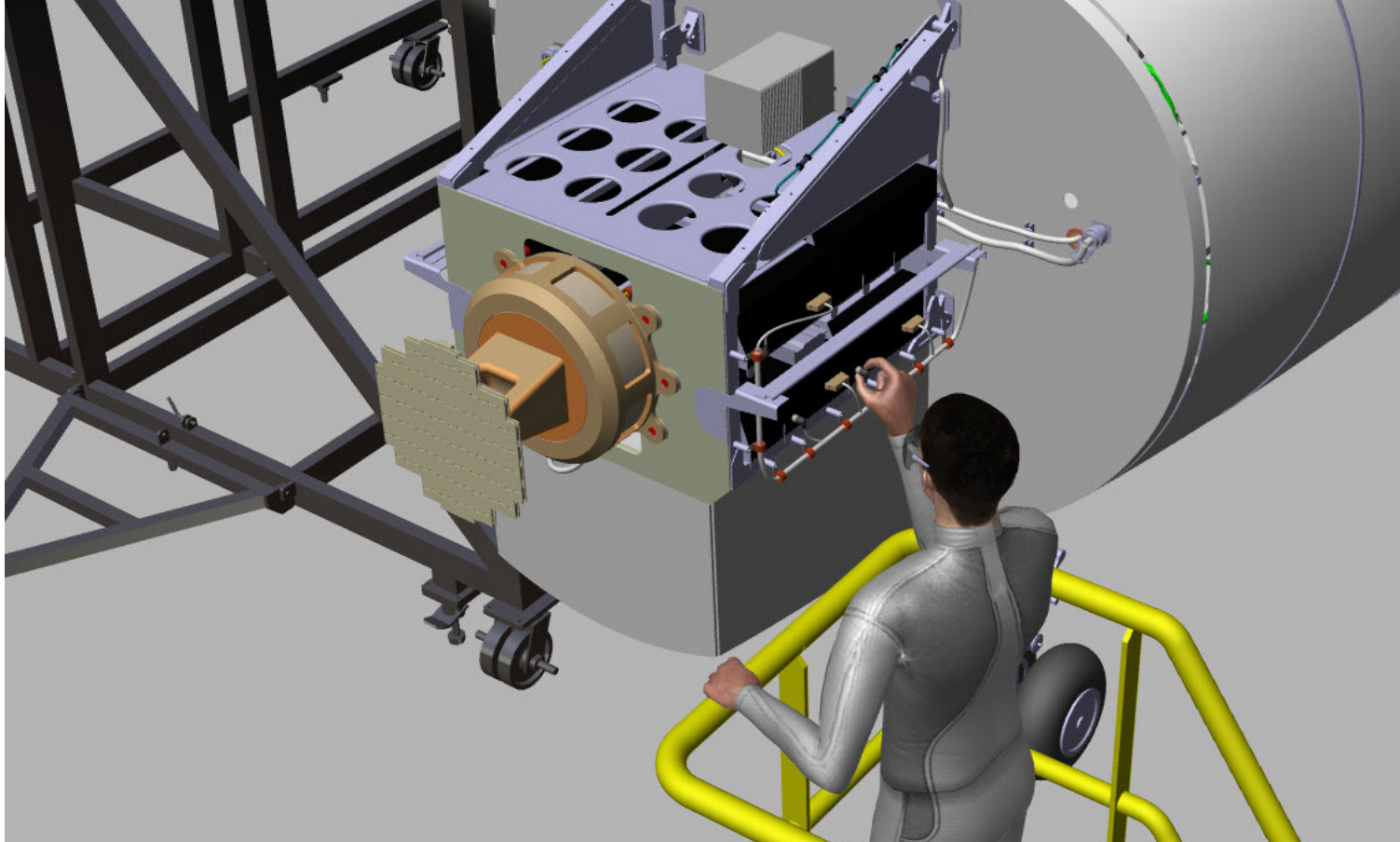
DELMIA's Aerospace & Defense Producibility and Maintainability solution enables companies to validate the design in terms of manufacturability and maintainability. By using a prototype in parallel with the design maturation, designers are able to identify manufacturing or maintenance issues early on, while the cost of change is still low.

Manufacturing and Maintenance Engineers can interactively create assembly simulation scenarios of single parts or assemblies being installed or uninstalled. Ergonomic analysis, such as reachability for different populations around the world, result in a lower potential for injury and a reduction in unnecessary costs associated with labor.

Validate the design manufacturability and maintainabilty.

Minimize the potential for injury during manufacture, maintenance or use.

INDUSTRY CHALLENGES

- How to manage an aircraft from concept to recycling, ensuring a proper level of supply chain visibility?
- How to transform existing business models into "turnkey" offerings that enable OEMs to share, monitor and integrate deliverables?
- How to minimize costs while continually becoming "green" throughout the entire lifecycle?
- How to ensure regulatory compliance and quality across the entire eco-system, taking into account industrial and societal requirements?

SOLUTION HIGHLIGHTS

- Increase speed and accuracy of analyses during design and product and process maturation
- Virtually validate product and processes
- Manage a single IP reference that includes Product and Process data integration
- True concurrent design and manufacturing planning
- Direct digital thread associatively with design

SOLUTION VALUES

- Reduce time-to-market by frontloading manufacturing and maintenance validation
- Implement best practices for both manufacturing and maintenance
- Capture, standardize and re-use proven manufacturing and maintenance practices, and business know-how
- Reduce "real life" injuries by using a virtual human
- Remove problems by accessing a single version of the truth
- Reduce product development and manufacturing costs
- Eliminate errors and ambiguity on the shop floor

USERS

- Maintenance Engineer
- Manufacturing Engineer

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