

ONE CLOUD PLATFORM

Every product starts with an IDEA. The 3DEXPERIENCE® Platform on the Cloud provides you with a complete solution to bring your ideas into reality. The platform powers industry-leading applications for Design & Engineering, Manufacturing & Production, Simulation, and Governance & Lifecycle.

DESIGN & ENGINEERING WITH CATIA



Creative Design & Styling

From 3D sketching, subdivision surface, class-A modeling to 3D printing, reverse engineering, visualization and experience, the solution provides everything you need for product design.

- Shape & material creativity
- High level of surface sophistication & quality
- Virtual prototypes

Mechanical Engineering

Gain insight into key factors of quality and performance early in the product development phase. Digital prototyping, combined with digital analysis and simulation, allows you to virtually create and analyze a mechanical product in its operating environment.

- From rough 3D sketches to fully detailed industrial assemblies
- Unbreakable relational design
- Smooth evolution from 2D- to 3D-based design methodologies



Systems Engineering

Quickly evaluate requests for changes and develop new products or system variants with a unified, performance-based systems engineering approach.

- Master cross-discipline systems development
- Develop complex «cyber-physical» products

3DEXPERIENCE PLATFORM ON THE CLOUD

- Single source of truth
- Actionable dashboarding
- Global Collaboration
- Security and reliability
- 24/7 IT support and system availability
- Knowledgware for automation
- Reduced costs of system and product development



PROJECT PLANNING WITH ENOVIA



Configured Product Development

Collaborate using a multi-discipline product definition that includes the product structure and Bills of Material (BOMs). Efficiently define, standardize and execute change management.

- Maximize reuse of existing IP and assets
- Manage the complete product definition from early definition to release
- Implement a closed-loop change process that includes every stakeholder

3D Product Intelligence

Enable stakeholders to participate in real-time collaborative reviews on a virtual prototype. Analyze product data to identify issues and track through to resolution.

- Bring project stakeholders together around a single product definition
- Analyze 3D design in real-time with a complete set of technical analysis tools
- Perform interference checks to identify clashes and validate their resolution



Project Management

Use real-time project information to make better decisions. Manage projects top-down or use team-based planning to collaborate on smaller projects and shared tasks.

- Perform simple and assisted iterative planning, execution, and monitoring
- Track project execution using real-time, automated deliverable updates
- Manage and share project information with team members

SIMULATION WITH SIMULIA

Virtual prototyping optimizes designs, improves quality, and reduces development risk. Today's complex products require a fully featured simulation capability that links to the engineering requirements and uses versioned geometry directly within the design environment.

Simulation for product design improves product reliability and reduces cost and time to market. You can:

- Detect product design flaws early
- Compare design alternatives under operating conditions
- Reduce cost of material by simulation-driven lightweighting
- Reduce or eliminate costs and time required to perform prototype testing
- Gain certainty that the product will pass acceptance testing

