



CATIA 2026X: THE FUTURE OF ENGINEERING IS GENERATIVE

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The Core Values Driving CATIA 2026X Innovation

Generative AI transforms the CATIA portfolio through specialized engineering **Virtual Companions** that accelerate development. By integrating **Generative Engineering** and the **Virtual Twin**, teams achieve continuous advancement, optimizing products for performance and sustainability. The release focuses on three fundamental values.

Augmented Engineering

Empower engineers with immediate access to corporate knowledge. Using natural language, CATIA anticipates intent and automates tasks, ensuring you start every design with confidence, never from scratch.

Space Of Possibilities

Generative AI connects Generative Engineering with the Virtual Twin to drive innovation. This enables rapid design exploration while simultaneously optimizing performance, compliance, and sustainability in one streamlined process.

Fit For Use - by Design

Ensure products are safe, robust, and manufacturable from the start. CATIA embeds quality and compliance checks directly into the design workflow, delivering market-ready innovation without compromise.

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Design & Styling - Boosted Innovation through Advanced Tools, Generative Design, and Immersive Sense Experience

CATIA 2026X's creative design capabilities provide a unified environment for driving innovation—blending intuitive user interfaces, powerful modeling, AI augmentation, and collaborative workflows. This chapter outlines the key enhancements introduced for design and styling professionals, along with their implications for productivity and creativity precision and efficiency.



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Creative Portfolio Board & Inspiration

CATIA introduces streamlined productivity for design teams through ready-to-use templates for mood boards, brainstorming sessions, planning, and collaborative workspaces. The Creative Portfolio Board ensures visual consistency and speeds up early-stage ideation. Amplifying inspiration, the new AI Image Generation (Beta) command leverages artificial intelligence to convert text, sketches, or reference images into highly realistic visuals. With multiple generation modes and style presets, designers can rapidly produce images that clarify ideas, enhance creativity, and engage teams during brainstorming

The screenshot shows the 3DEXPERIENCE Creative Portfolio Board interface. The top navigation bar includes '3DEXPERIENCE | 3DDashboard My First Dashboard', 'Search', and various icons. The main area is titled 'My 3Dwhiteboard' and contains a 'DESIGN BRIEF' section and a '2010 to Present' section. The 'DESIGN BRIEF' section details requirements for a steering wheel, including its position relative to the cockpit opening, a minimum distance from the center of the steering wheel to the front edge of the cockpit opening, and a minimum distance from the center of the steering wheel to the front edge of the steering column. It also specifies a quick release mechanism and a safety and impact test. The '2010 to Present' section shows a grid of images illustrating various steering wheel designs, including Formula 1 steering wheels with multiple buttons and screens, and other automotive steering wheel variations. The interface includes a sidebar with icons for Images, GPS, Videos, 3D, Docs, Social, Emojis, Compare, and Upload, and a bottom toolbar with various editing and search tools.

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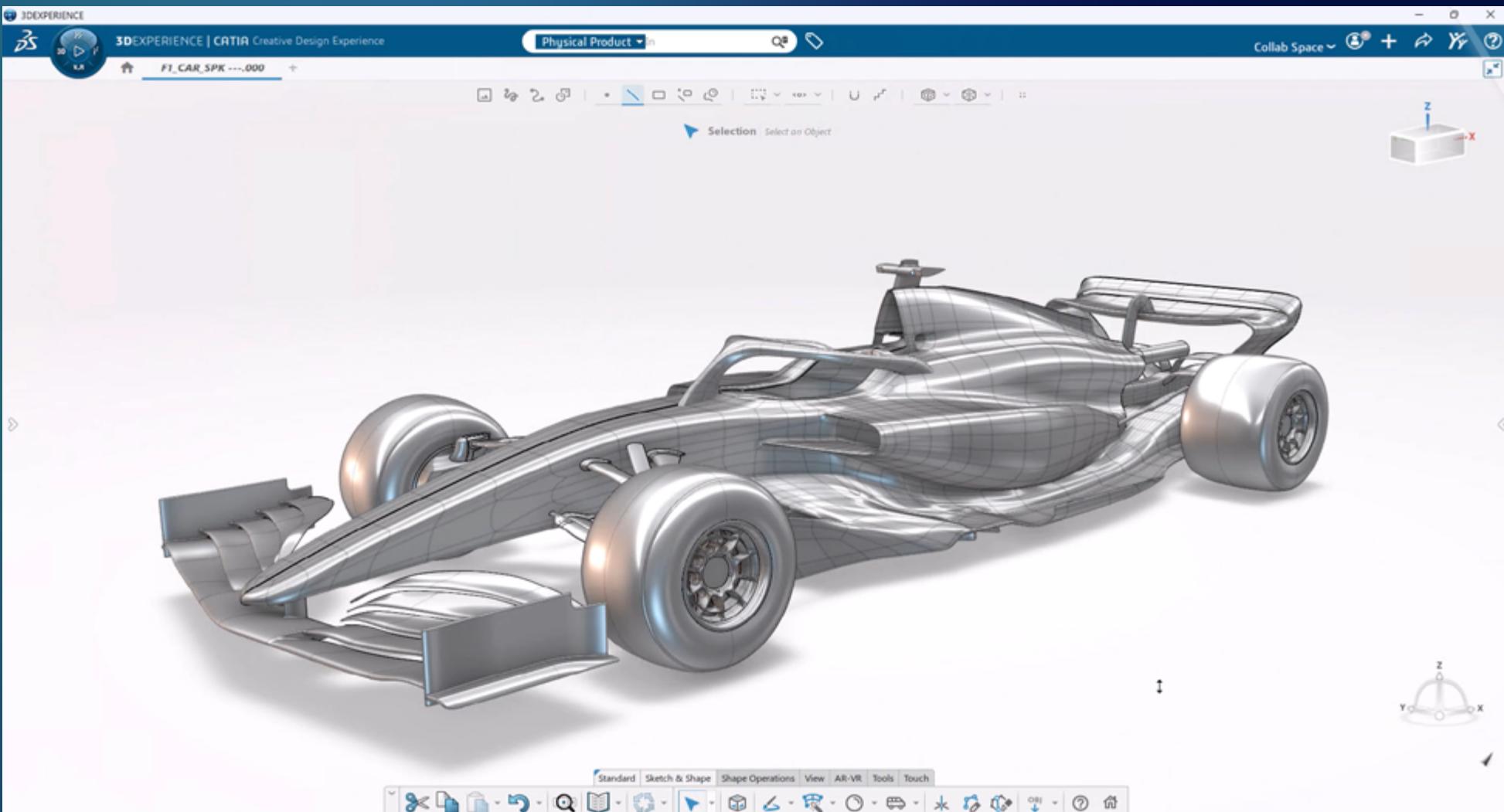
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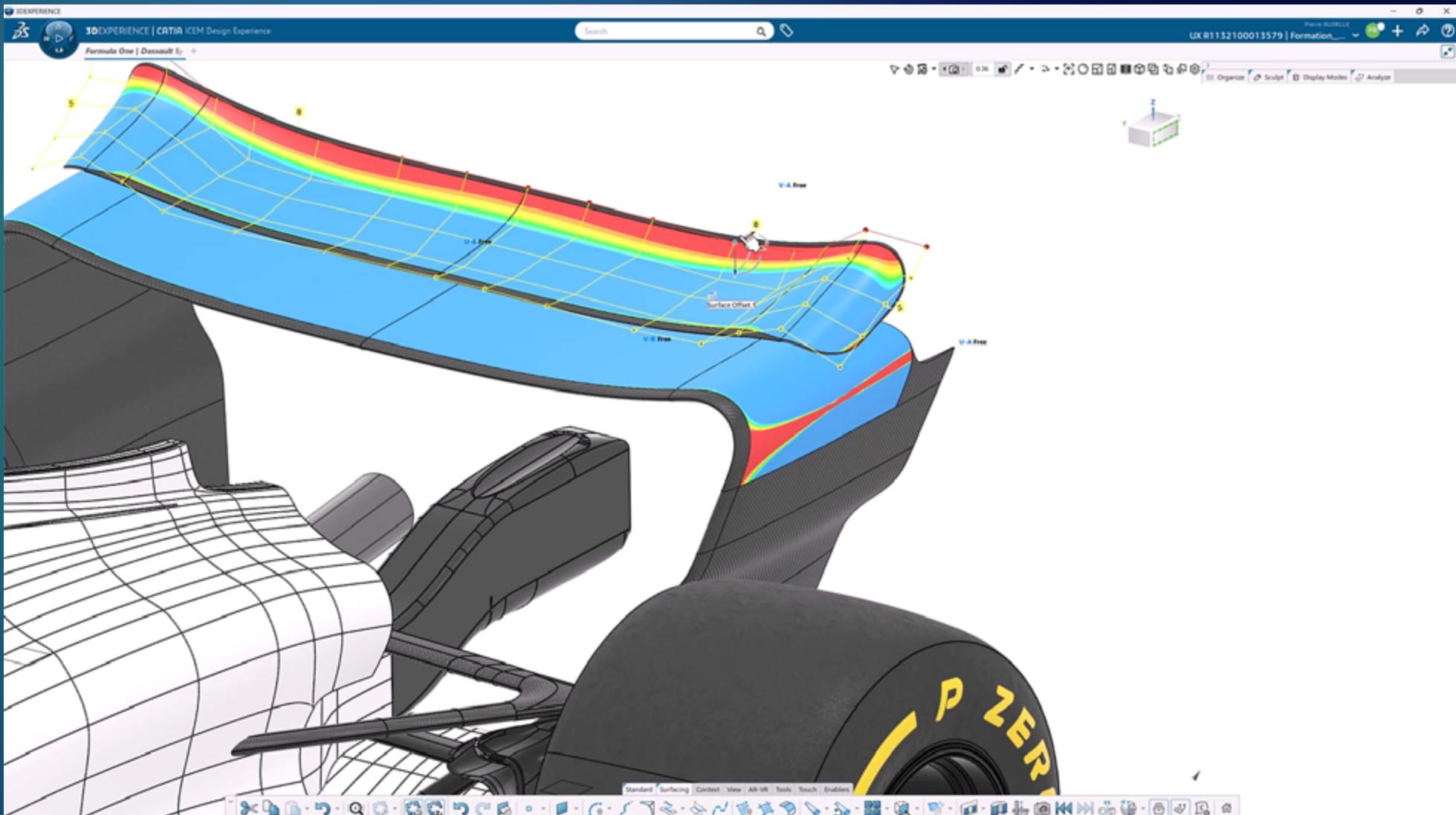
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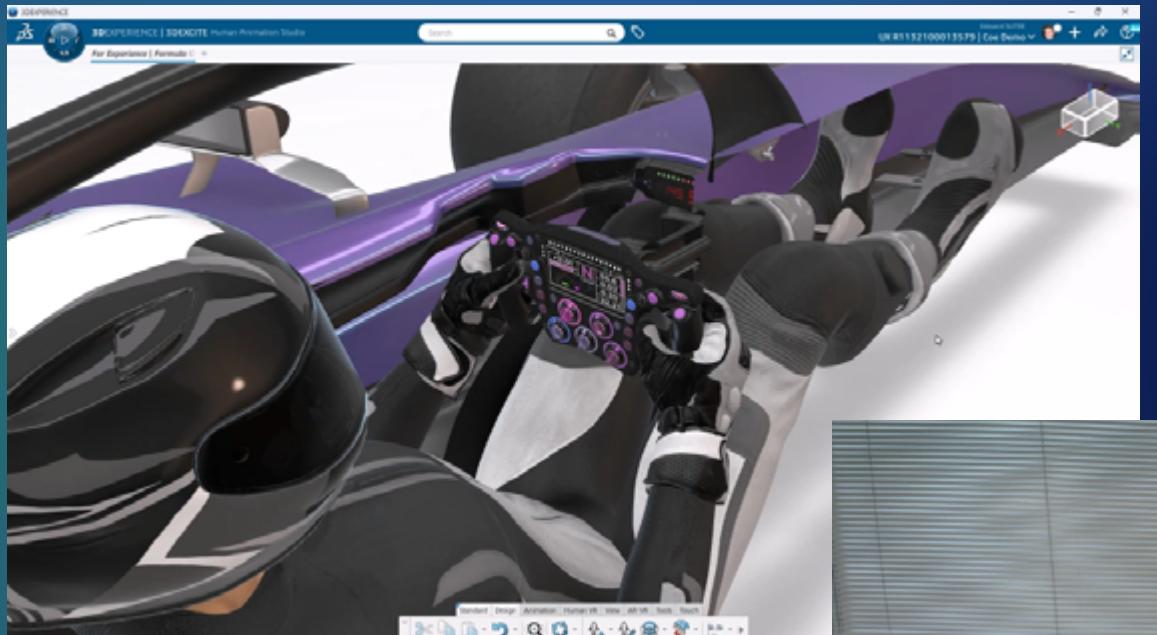
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Reverse Engineering – From Real to Virtual

Designers can now accelerate the repositioning of scanned models, using rapid symmetry detection within the Digitized Shape Preparation tool. The upgraded Fictive Edge functionality retrieves and regenerates sharp character lines from meshes, subdivision, or NURBS surfaces, making it easy to convert physical design intent into high-fidelity digital assets.

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Immersive Visualization

Visualization is enhanced through the new ultrafast lightweight open function, allowing near-instant navigation of massive 3D datasets. Teams can capture comments directly in 3D with the **Product Perception Experience**, streamlining feedback and iteration. **Stellar Interactive** improves live rendering performance for rapid visual decision-making, while the immersive **3DLive for Apple Vision PRO** enables distributed design reviews and collaboration—with support for both local and multi-site sessions around a shared virtual twin.

Collaborative and Synchronous Design

The integration of **Multi-User Synchronous Modeling** carries over from the base CATIA platform, strengthening real-time collaboration regardless of geographic location. This is particularly valuable as projects grow in complexity and teams become increasingly distributed.

Impact on Creative Design Professionals:

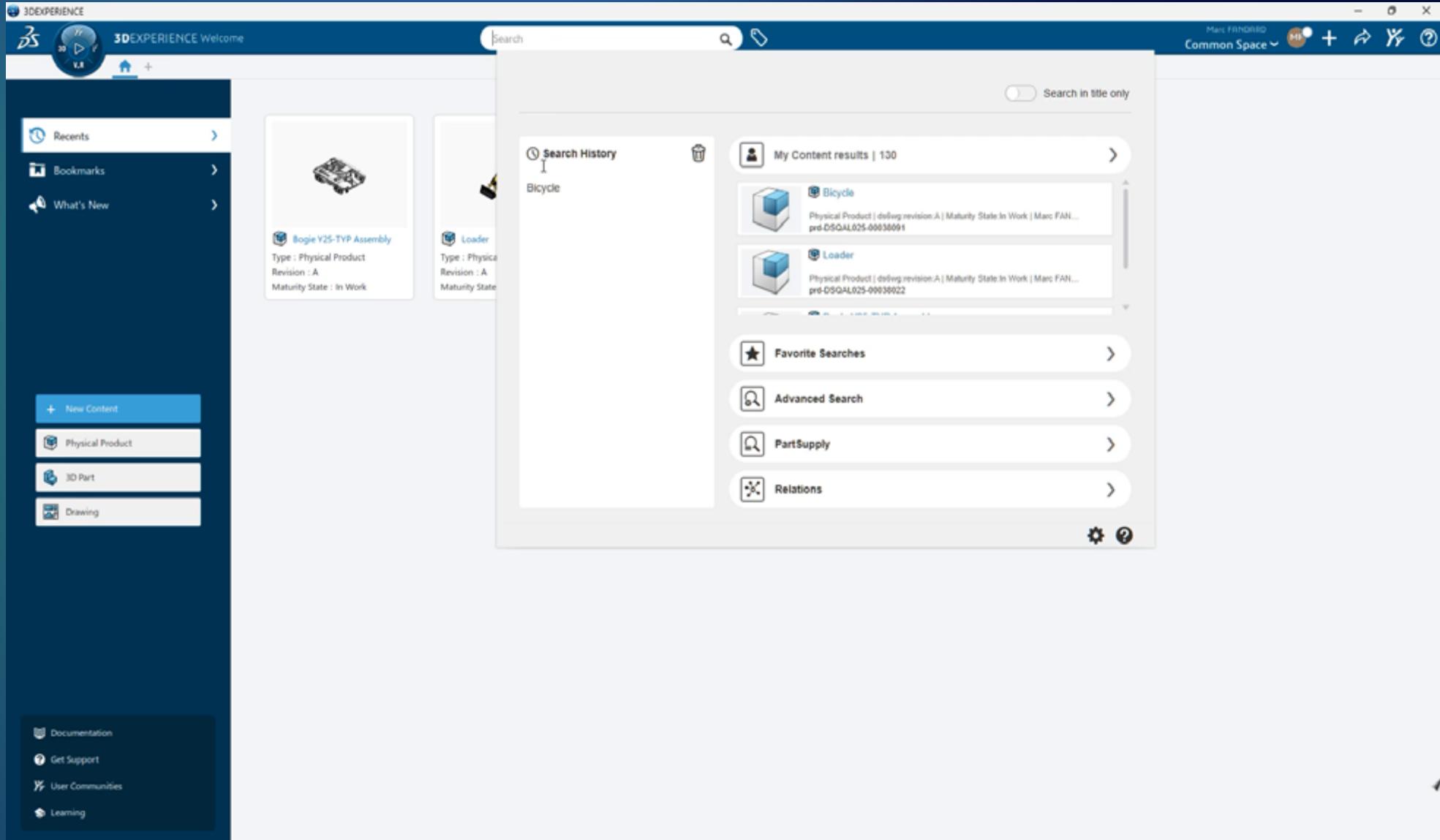
CATIA 2026X's creative design suite enables faster ideation, seamless collaboration, and greater creative control. By merging AI-powered inspiration, immersive human experience tools, world-class surface modeling, and live review capabilities, the platform ensures that designers not only meet, but set, new industry standards—delivering products with higher impact, better ergonomics, and greater market appeal in significantly less time.



Engineering

Welcome Page

The new **Welcome Page** streamlines the user experience by providing simplified access to favorite and recent applications and data. It also serves as a centralized hub for "**What's New**" content, ensuring all users are informed of the latest enhancements with each release.



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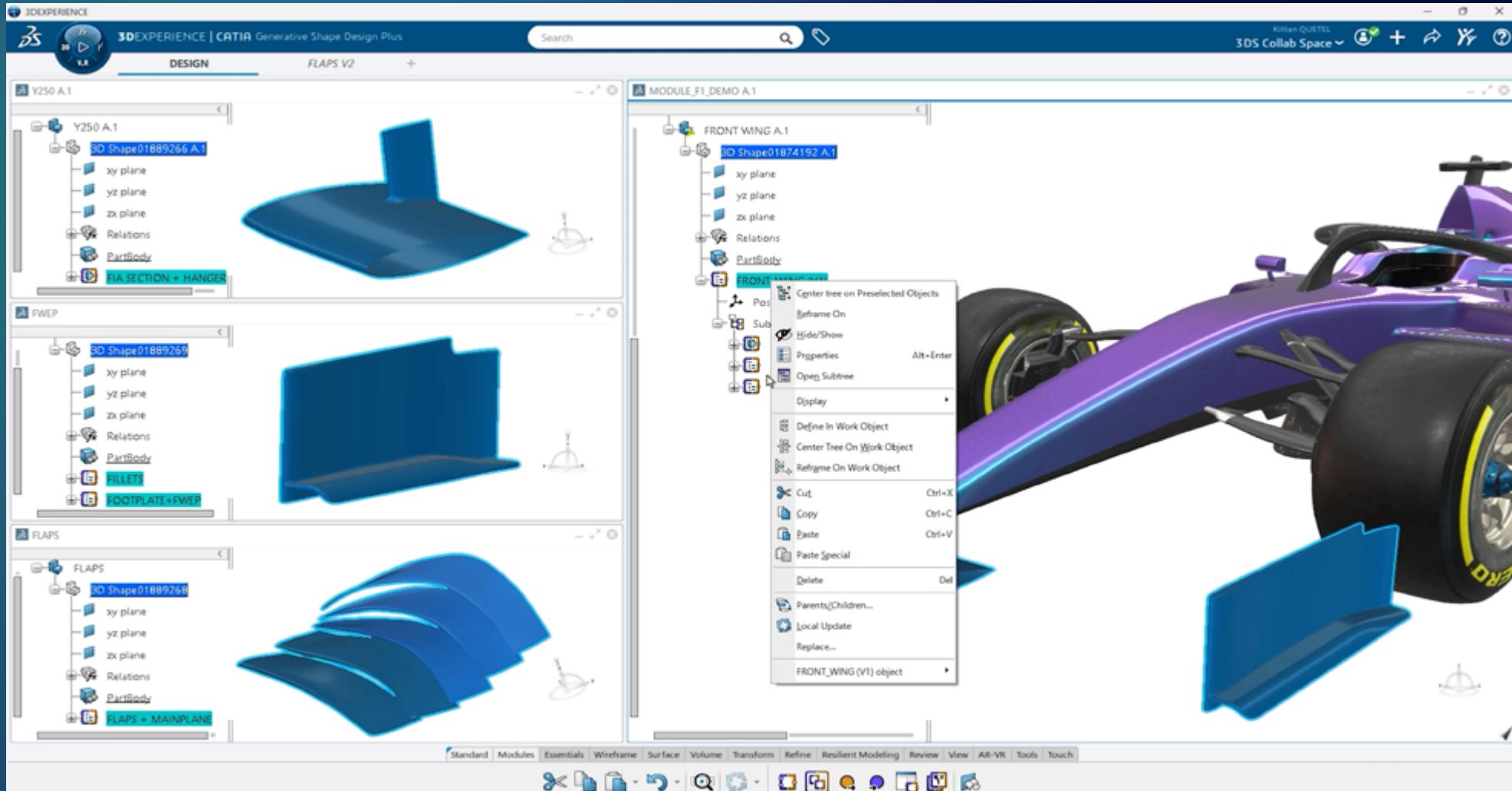
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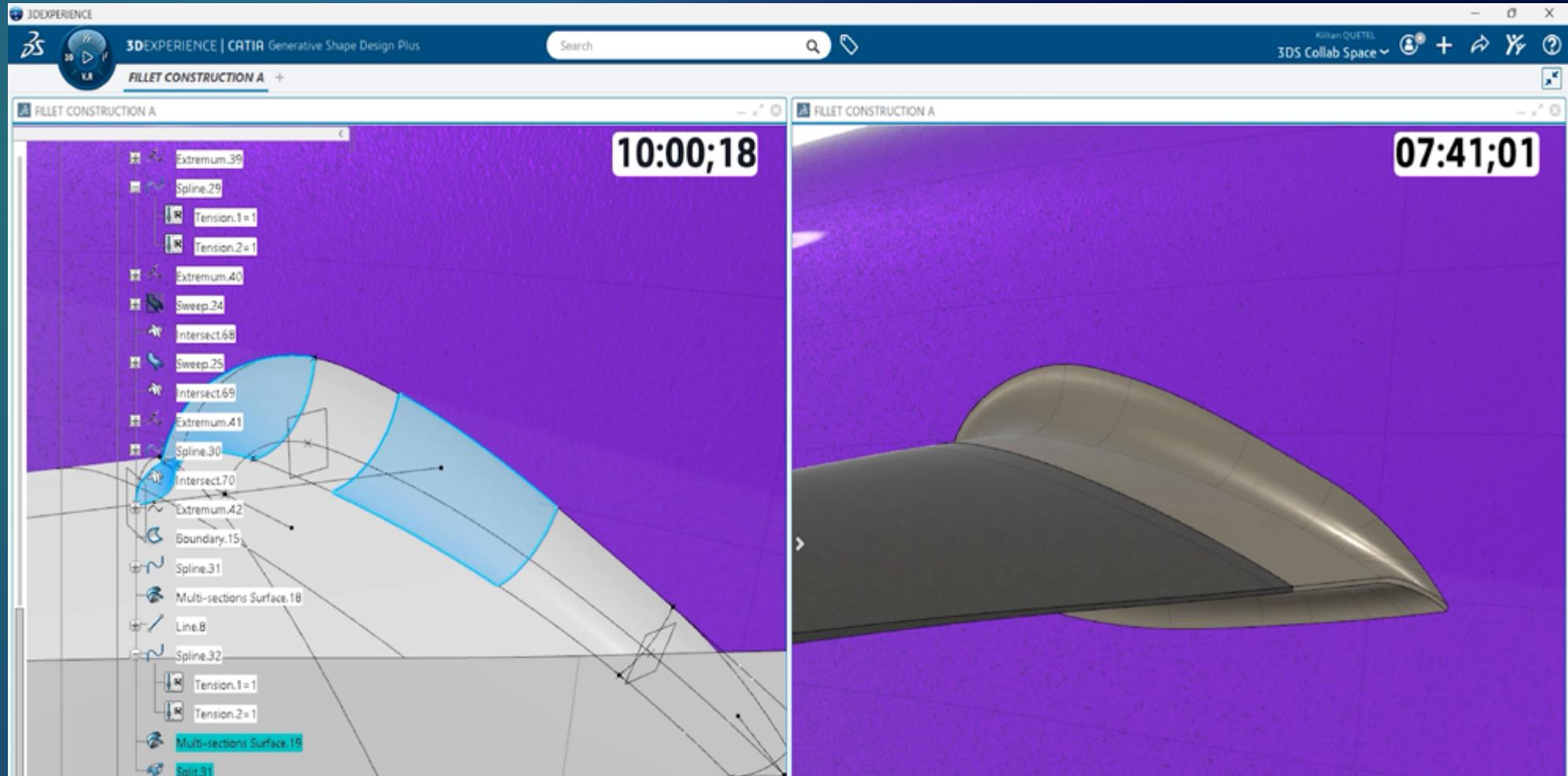
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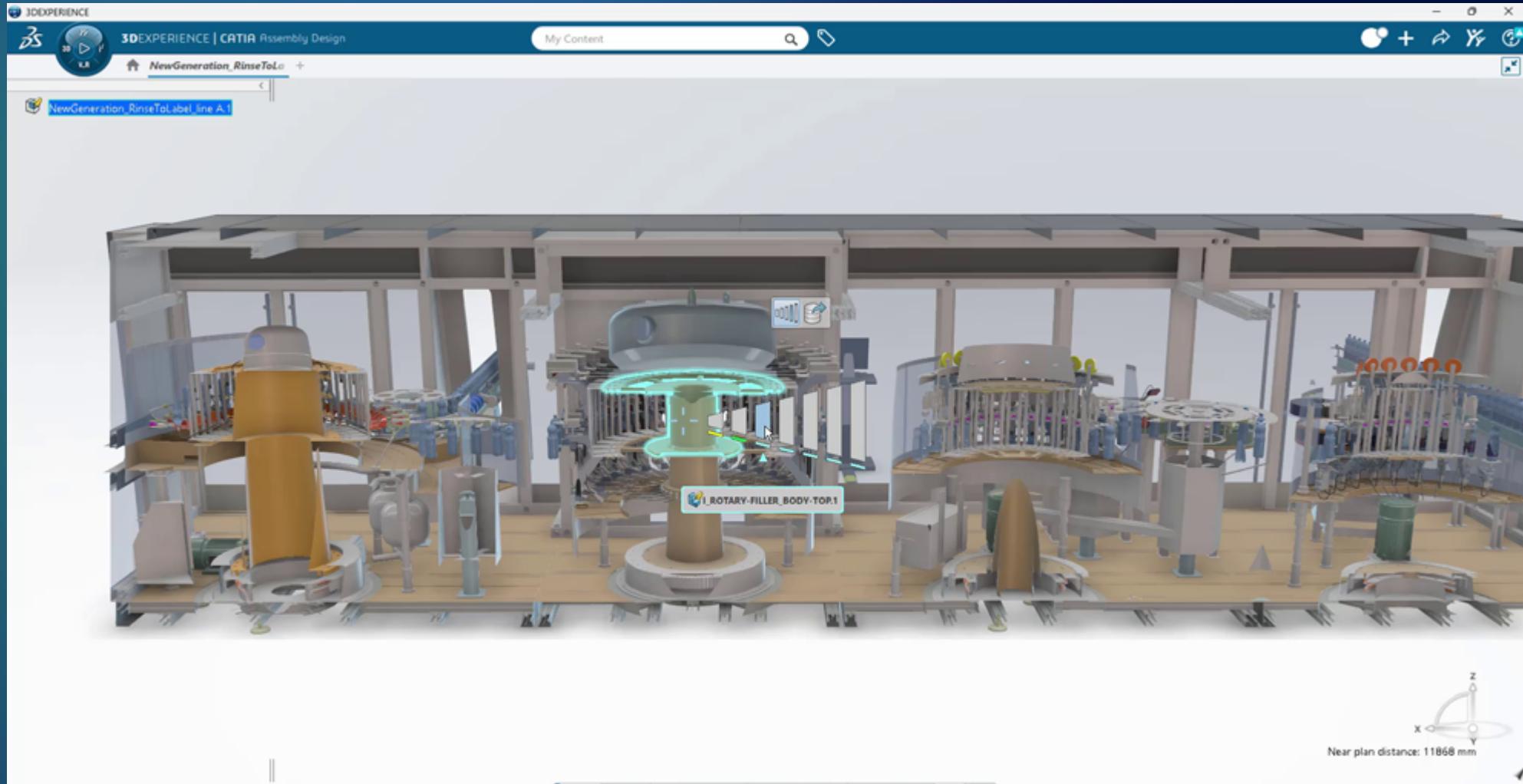
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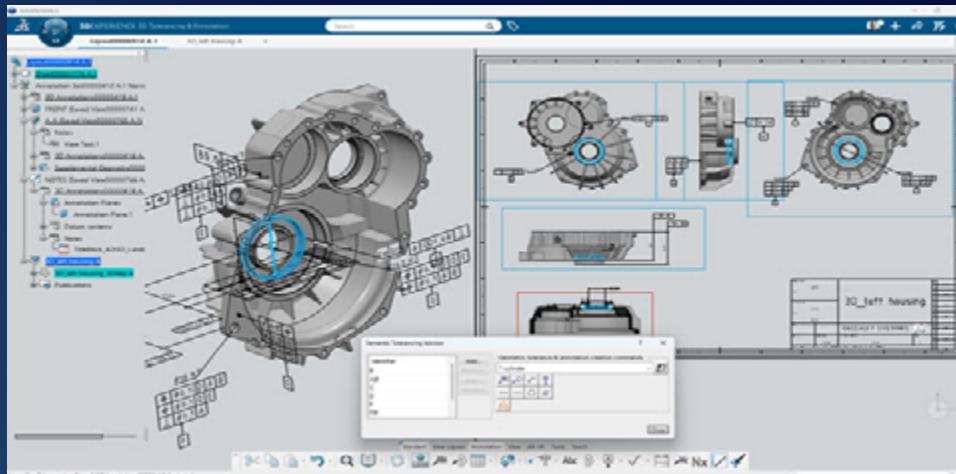
Generative Assembly

Generate assemblies automatically from parts and sub-assemblies, streamlining the process by enriching your design's semantics and generating relevant mechanical interfaces. This approach enables the automatic assembly of parts, whether sourced from suppliers or existing configurations, by predicting mechanical interfaces and enhancing the semantic quality of your design. By pairing and positioning components automatically, the system not only accelerates the assembly process but also creates an environment where further scenarios—such as kinematic validation and automated functional tolerancing—are seamlessly enabled. Mechanical interfaces serve as a key enabler in this workflow, driving greater accuracy, operational efficiency, and the overall robustness of engineering deliverables.



Engineering for Manufacturing

Engineering for Manufacturing is centered on reducing complexity in 3D engineering specifications by streamlining the creation and management of tolerancing and annotations. The approach enables independent lifecycle management of product and 3D annotation data, allowing teams to work concurrently and drive productivity. This capability enhances the efficiency of 3D GD&T (Geometric Dimensioning & Tolerancing), annotation processes, and 2D presentations, ultimately supporting a more agile and responsive engineering environment.



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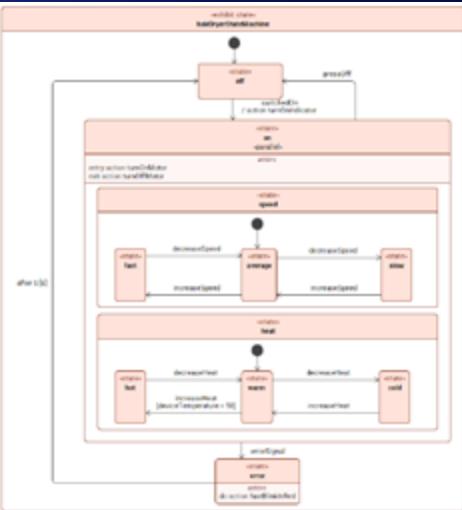
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SysML V2 new standard supported

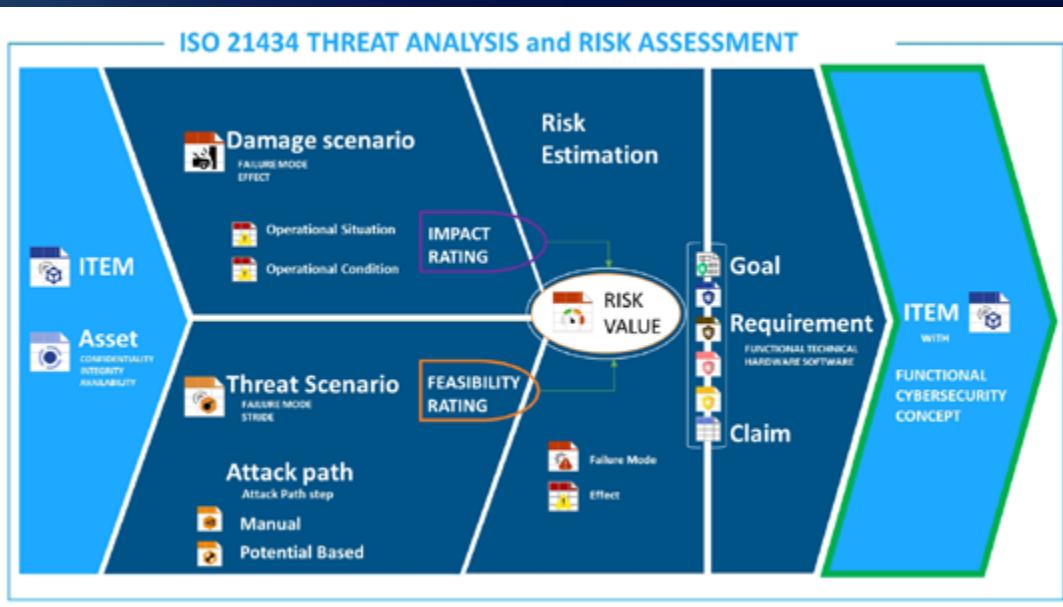
Model-Based Systems Engineering (MBSE) enters a new era with a new system modeling language SysML v2 which provides a significant step forward for MBSE adoption across industries. CATIA Magic provides the most advanced support of this new language with a seamless two-way synchronization between textual and graphical model representations.

```
1 package States {
2     private import ScalarValues<=1>;
3     private import SInt<=1>;
4     item def increaseSpeed;
5     item def decreaseSpeed;
6     item def increaseTemp;
7     item def decreaseTemp;
8     item def switchOn;
9     item def pressOff;
10    item def errorSignal;
11    part hairdryer {
12        attribute deviceTemperature : Real;
13        exhibit state hairdryerStateMachine {
14            state off {
15                state error {
16                    do action fastblink();
17                }
18                state on_parallel {
19                    entry action turnOnMotor;
20                    exit action turnOffMotor;
21                    state speed {
22                    }
23                    state heat {
24                    }
25                }
26            }
27            transition off_on first off accept switchOn do action turnOnIndicator then on;
28            transition exitOff first error accept after 5 [s] then off;
29            transition onToOff first on accept pressOff then off;
30            transition onToError first on accept errorSignal then error;
31            transition start then off;
32        }
33    }
34 }
```



Safe by design

The new safety plugin in CATIA Magic will democratize model-based engineering for safety and quality domain providing dedicated project template and data model for assessments. It is standard-based following RAAML and industry standards (SAE J1739) and covers Failure Mode Avoidance and Failure Mode and Effect Analysis methodologies.



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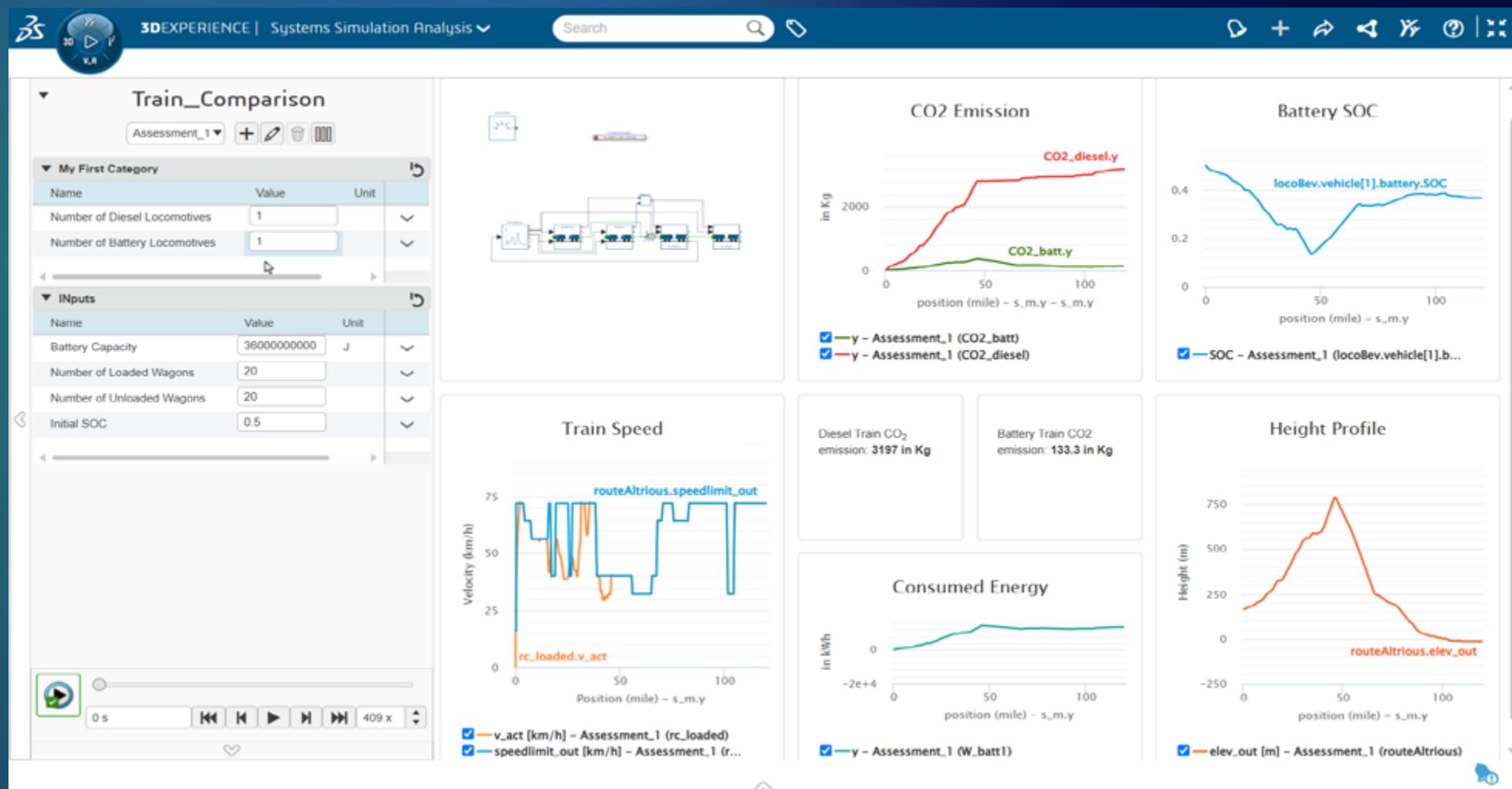
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Sustainable Supply System Library

This new library, available in the Modelica language, enables the simulation of years of system operation in seconds, complementing KPIs and mathematical computation with simulation, capturing corner cases & domino effects.



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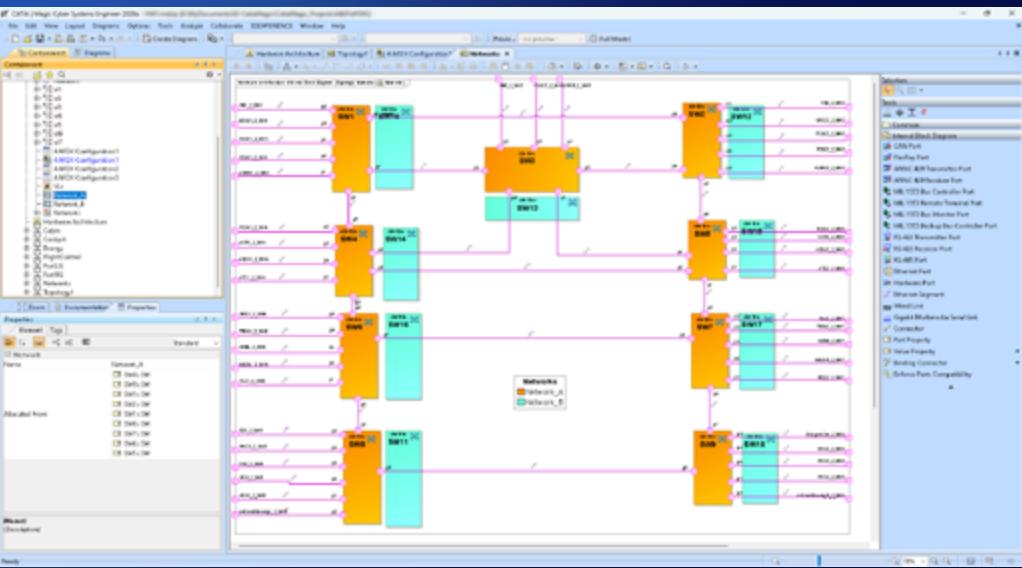
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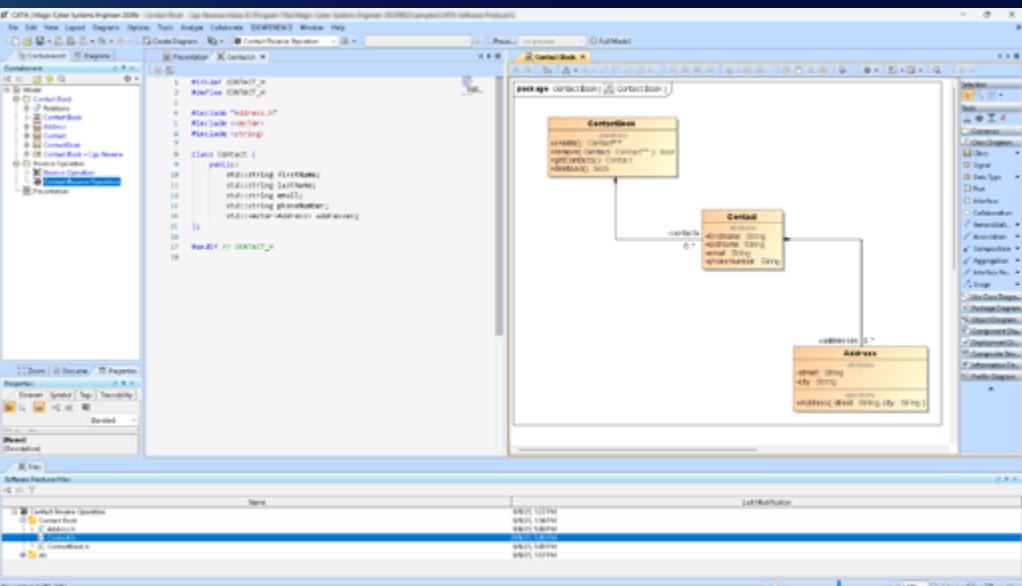
Electrical Electronics & Software Architect

The suite advances software-defined product development with strengthened round-trip workflows between systems models and code, integrating aerospace-specific protocols such as AFDX and MIL-STD-1553.



Software code generation

CATIA 2026X accelerates the development of software-defined products by closing the loop between engineering disciplines. The platform strengthens the round-trip strategy between models and code, ensuring seamless integration and alignment from system architecture to implementation.



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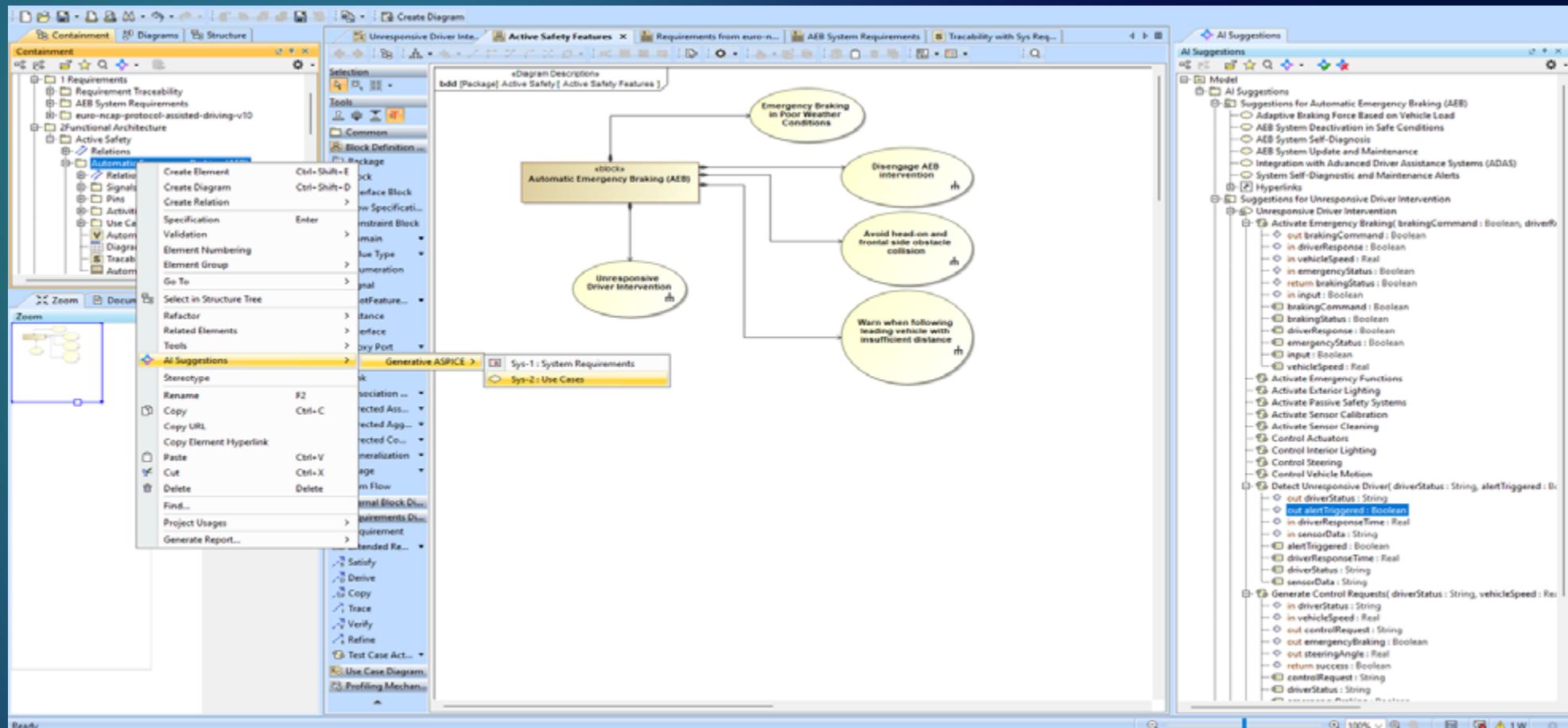
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Building Smarter Faster and Safer Buildings

Construction professionals face unique challenges including complex regulatory requirements, tight project schedules, and coordination across multiple disciplines. CATIA 2026X provides construction teams with advanced tools that address these challenges while improving project outcomes.



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CATIA 2026x provides an advanced suite of capabilities for partition walls, openings, level surfaces, and a broader range of door and window types enable teams to generate more accurate models and automate the process of updating key components as projects evolve. These new features streamline coordination between disciplines, resulting in faster workflows, reduced design errors, and clearer communication among stakeholders. The ability to adapt swiftly to changes and maintain high model fidelity gives design and construction professionals a significant advantage in meeting demanding project schedules and delivering with quality.



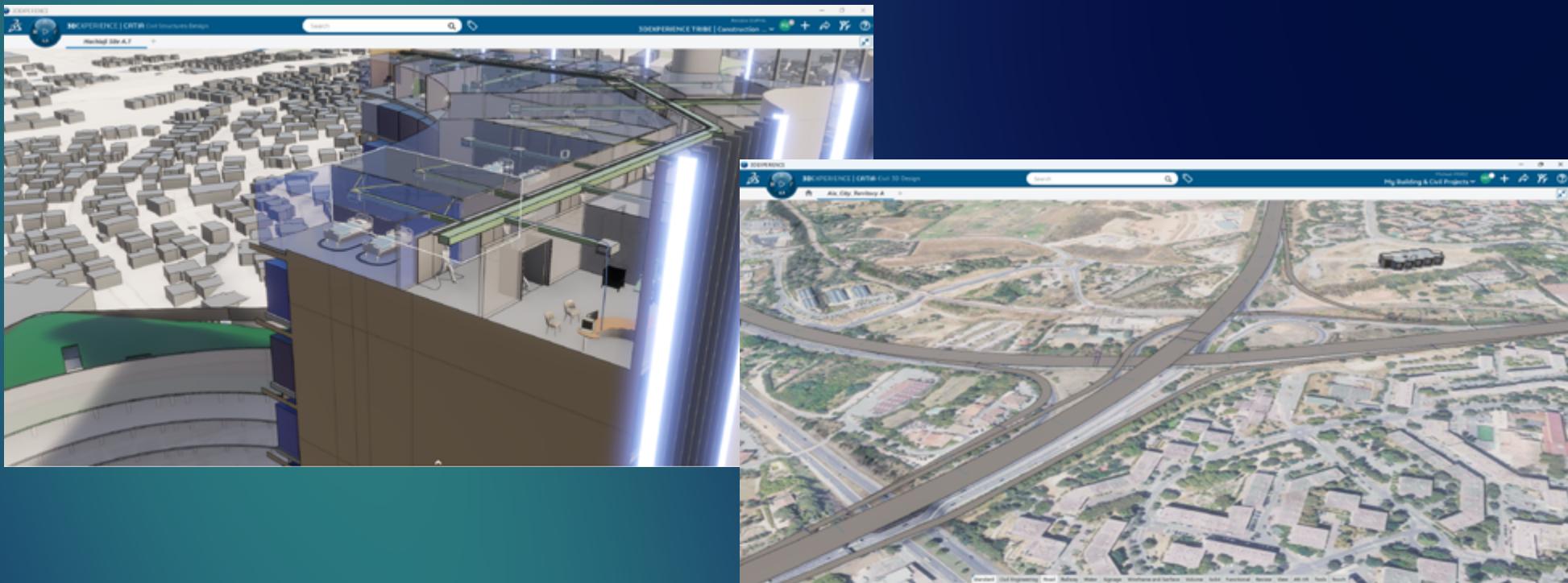
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For civil engineering teams, this release introduces smarter alignment and interchange tools to accelerate the planning and optimization of roadways and large-scale infrastructure. CATIA 2026X enhances vertical alignment representation, allowing for more accurate modeling and assessment of elevation changes and grades. Advanced interchange design capabilities make it possible to handle complex layouts with greater ease, ultimately improving the safety and integration of road networks within broader transit systems. Engineers benefit from tools that produce clearer 2D deliverables and enable more efficient iteration throughout the design process, supporting the delivery of infrastructure that meets high standards for usability, integration, and safety.

Impact on Construction and Infrastructure Professionals:

With purpose-built tools for both buildings and civil works, CATIA 2026X supports teams in executing complex projects with efficiency, clarity, and confidence. Enhanced modeling, automation, and coordination drive project success while supporting compliance and fostering integrated, future-ready environments.



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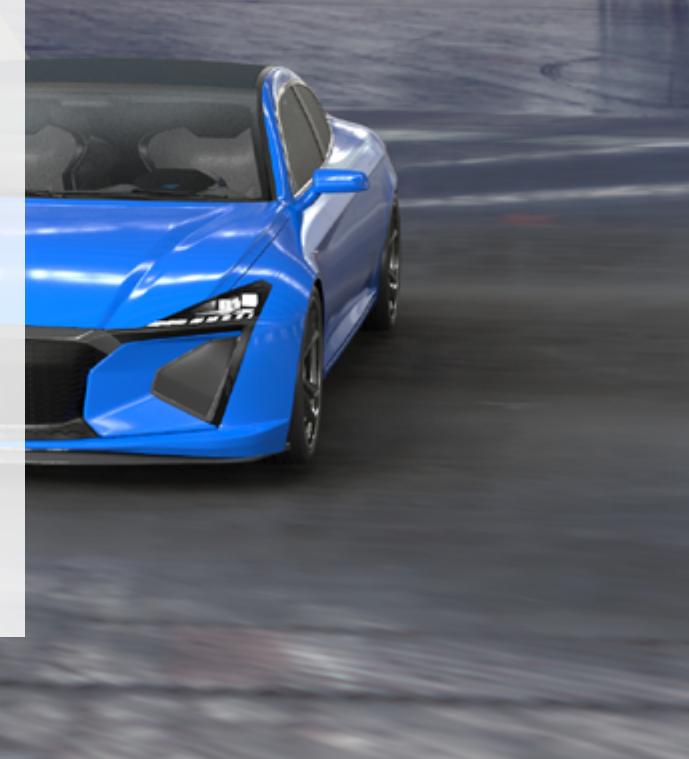
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CATIA 2026X delivers the tools and architecture needed to redefine innovation across design, engineering, systems, and construction domains. With a foundation built on **Augmented Engineering**, professionals are empowered to access the full breadth of organizational knowledge and harness intelligent tools that anticipate and support every step. The platform expands the **Space of Possibilities**, allowing teams to rapidly generate and evaluate relevant product alternatives guided by physics, system models, and real-world constraints. **Fit for Use by Design** is at the core, ensuring safety, compliance, and manufacturability are seamlessly integrated from the earliest design stages. Its **flexible, web-based architecture** and advanced AI workflows ensure that professionals **collaborate seamlessly and execute efficiently**, no matter their industry. This release empowers professionals to thrive in demanding environments, enabling them to develop solutions that align with business goals and modern challenges. With CATIA 2026X at the forefront of innovation, your team is equipped to shape the future today.



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Discover what becomes possible when cutting-edge technology meets engineering excellence.

Your next breakthrough awaits.

For more information about CATIA 2026X capabilities and implementation support, [contact your Dassault Systèmes representative](#) or visit our website to explore detailed technical documentation and training resources.

Dassault Systèmes is a catalyst for human progress. Since 1981, the company has pioneered virtual worlds to improve real life for consumers, patients and citizens.

With Dassault Systèmes' 3DEXPERIENCE platform, 370,000 customers of all sizes, in all industries, can collaborate, imagine and create sustainable innovations that drive meaningful impact.

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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
17F, Foxconn Building,
No. 1366, Lujiazui Ring Road
Pilot Free Trade Zone, Shanghai 200120
China

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

**Virtual Worlds
for Real Life**



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