TRANSITIONING FROM PLM TO AN INNOVATION PLATFORM

Making the best strategic decision

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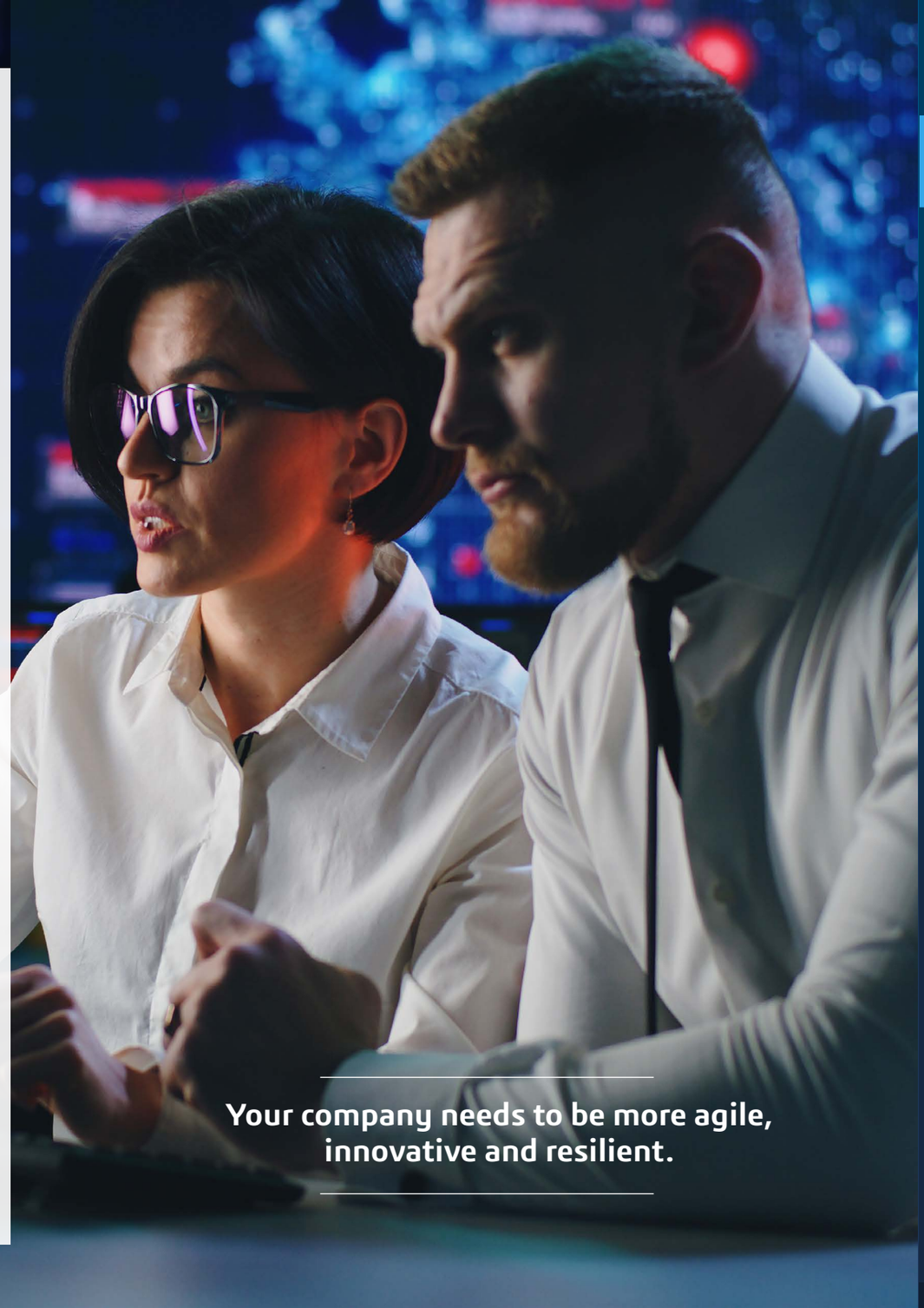
The Next Generation of PLM

Product Lifecycle Management (PLM) systems play a pivotal role in product development, providing a framework for managing product data from initial concept to end of life and recycling. Despite their long-standing presence, traditional PLM systems have limitations that hinder a company's ability to innovate and adapt in today's fast-paced market. Ultimately, they lack the agility and efficiency necessary to adapt to changing market demands.

Modern businesses require an innovative PLM system that fosters collaboration and agility by providing teams with a unified platform for working together in real-time, enabling them to sustainably and cost-effectively deliver new innovations.

ENOVIA, powered by the **3D**EXPERIENCE® platform, has redefined the next generation of PLM. ENOVIA addresses the limitations of traditional systems by offering a more dynamic and collaborative approach to product lifecycle management. With ENOVIA, businesses can leverage a Software-as-a-Service (SaaS) delivery model that simplifies deployment and reduces overhead costs. They also gain access to a diverse range of role-specific apps that support highly effective collaboration across the product development process.

In this eBook, we'll discuss why the move to a platform-based PLM is important, and the value potential it provides for organizations of any size and from any industry.



Your company needs to be more agile, innovative and resilient.

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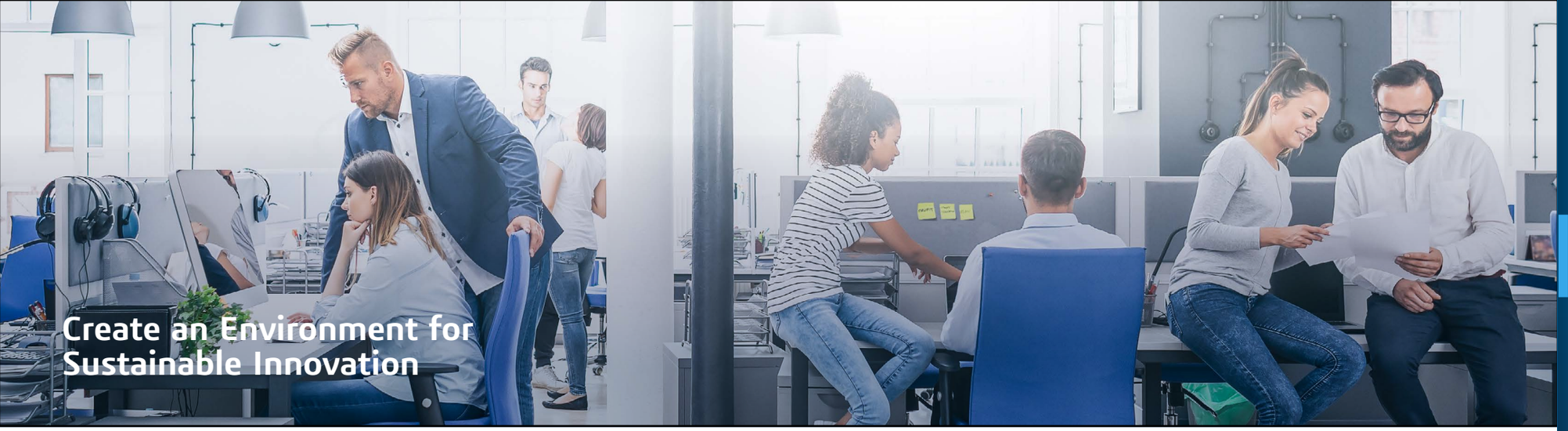

Create an Environment for Sustainable Innovation

While traditional PLM systems have helped drive efficiency and quality, today's circumstances demand more innovate products and new ways of doing business. PLM remains a necessary foundation for structured product development, but it is not enough to drive meaningful innovation. That doesn't mean PLM is no longer important. Core product development and data management capabilities are critical, but they won't differentiate your company from the competition.

Innovation is the core driver of business growth. It must be continuous, repeatable and fast. According to Forrester, "71% of business leaders expect they'll have to accelerate new offerings just to maintain their market position." Efficiency remains critical, but it is no longer a competitive advantage. Innovation however, will always be a game changer.

The bar for product innovation is higher than ever and traditional innovation processes are no longer enough. It's time to take a visionary approach – looking beyond the product design to validate the full product experience. To do this, your innovation environment must be able to validate product performance, sustainability and the way customers experience the product. To do this, you must take a multi-disciplinary approach that leverages all contributor's perspectives throughout the product development process. You also need to eliminate operational silos among design, engineering, testing and manufacturing to best leverage the collective knowledge of the business.

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Drive Innovation with a Modern Innovation Platform

For more than 40 years, Dassault Systèmes has led the evolution of product development and engineering solutions. Recognizing the need to dramatically shift from traditional PLM, Dassault Systèmes developed a single, integrated product innovation platform from the ground up that delivers comprehensive PLM capabilities and much more. By creating a wholly new platform, Dassault Systèmes delivers generational gains in product innovation capabilities that are available nowhere else. That's because the **3D**EXPERIENCE platform goes beyond traditional PLM to support product, process and business innovation, enabling higher levels of creativity across entire value networks – taking your company to the next level.

The **3D**EXPERIENCE platform eliminates silos among design, engineering, testing and manufacturing by providing a secure, common infrastructure with advanced 3D modeling, simulation, data science and collaboration capabilities. But it's also more. It's a business platform that brings company-wide transformation across applications, departments and business processes.

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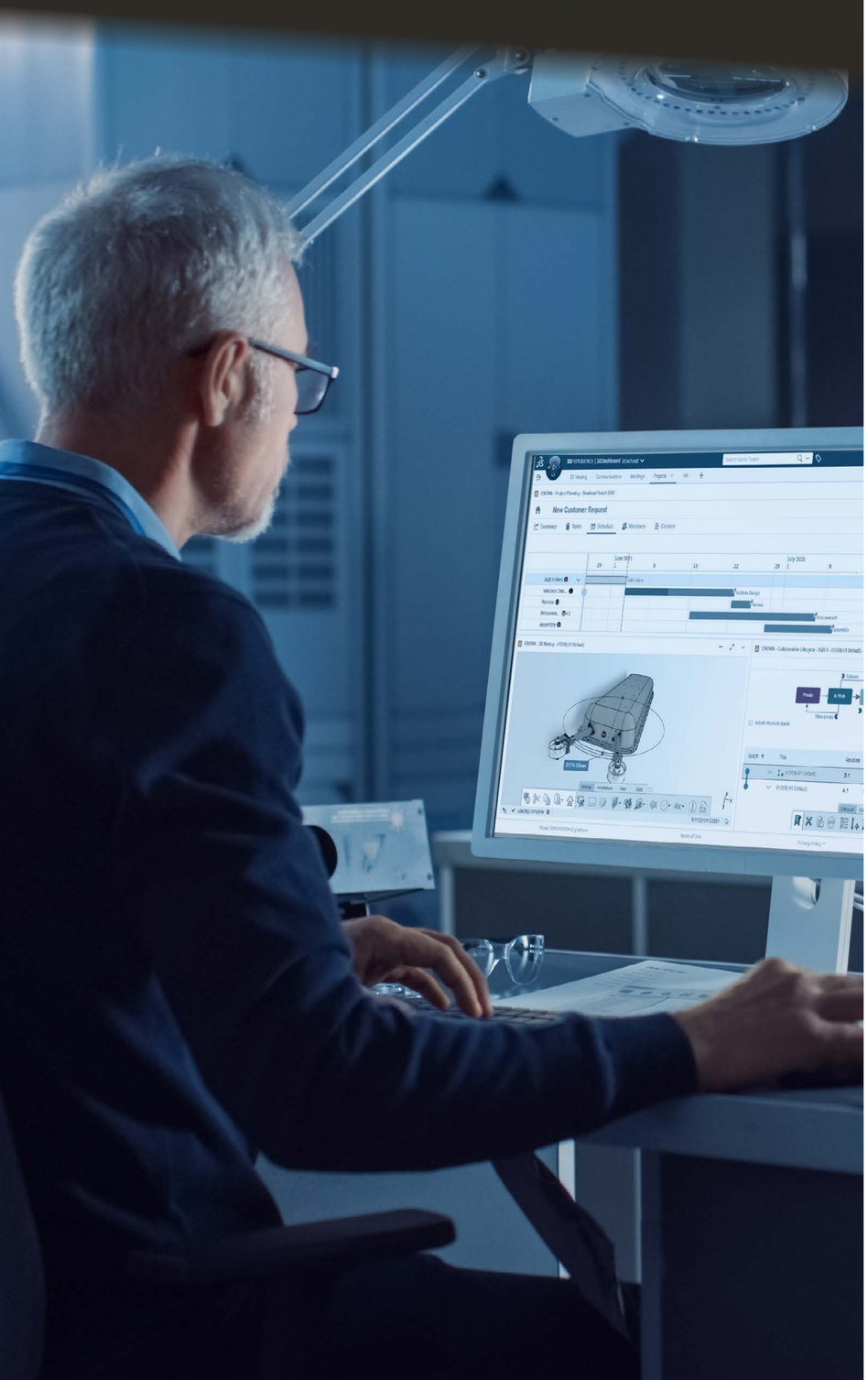

What Makes the 3DEXPERIENCE Platform Different?

The **3D**EXPERIENCE platform uniquely offers companies a fully integrated PLM environment to ensure efficient and transformative operations. Built on decades of experience collaborating with industry leaders, the platform connects people, ideas and data to enable seamless collaboration and foster sustainable innovation.

The platform is not a patchwork of disparate applications with differing architectures, data models and interfaces, but a single environment providing a real-time view of business operations. With a common user interface and data model, users can seamlessly navigate and interact with up-to-date information using task-based dashboards and role-specific apps.

The **3D**EXPERIENCE platform provides a people- and process-centric approach to business transformation. It enables everyone in the organization to work together, focusing on delivering innovation and improving the customer experience. The platform's modern, data-driven approach allows efficient collaboration around designs. Downstream simulation and manufacturing functions can work concurrently with product engineers, incorporating stakeholder feedback and addressing potential issues earlier.

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The 3DEXPERIENCE Platform Supports the Way You Work

Dassault Systèmes designed the **3D**EXPERIENCE platform as an open, flexible solution to support your business and the way you work. The platform can be leveraged on-premise, in a SaaS environment in either a private or public cloud, or in a hybrid model that provides optimized performance for your global operations.

The **3D**EXPERIENCE platform is an open platform that allows you to connect to your other business applications such as ERP that are essential to support continuous innovation and operational excellence. It provides the ability to leverage multi-CAD product definitions that allow your engineers and suppliers to work in the design tools of their choice, harnessing their creativity in a holistic, collaborative digital thread. It connects your enterprise and your value chain using the universal language of 3D without the need for additional CAD licenses. These capabilities help you quickly transition from your existing PLM system while providing unique opportunities for greater value over time.

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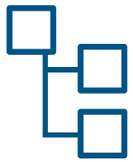
PLM with the 3DEXPERIENCE Platform

Your first priority may be to replace the PLM functionality that you already have, and clearly that's an important goal. You don't want to give back the gains in efficiency and quality that you've already achieved. Rest assured, the **3D**EXPERIENCE platform provides comprehensive PLM capabilities – and much more.

Dassault Systèmes has long set the standard for PLM systems. The **3D**EXPERIENCE platform supports the product innovation process, providing a full breadth of PLM functionality including:



Parts and Bill of Materials Management

Requirements Management

Digital Mockup

Change Management

Document Management

Quality Management

Sourcing and Supply Chain Management

Project Management

The **3D**EXPERIENCE platform fundamentally raises the bar on PLM. It also allows manufacturers to create Virtual Twin Experiences to simulate, optimize and validate the end-to-end lifecycle and experience of products, processes and services on a common data model. It supports social and structured collaboration to harness the innovation power of your enterprise and value chain. It offers AI and ML to help your company develop unique insights into market and customer needs. It is a single platform for taking your innovation performance to the next level.

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Digital and Virtual Twins

Digital Twins and Virtual Twins are digital representations of real-world products, processes or systems. Both allow real-time or past data to be projected on them, allowing users to understand the past (what was) or present (what is). Virtual Twins extend and improve Digital Twins by integrating advanced simulation, real-time data and artificial intelligence. In this way, they are not static representations, but instead dynamic models of systems, and systems of systems, that can be explored and simulated in ways that predict the future (what will be) and help orchestrate the actions that will take you there. The result is a system that accelerates innovation, boosts productivity, enhances quality, reduces costs and improves business resilience.

Dassault Systèmes' Virtual Twins are not just a digital mirror of the physical world but a game-changing tool for meaningful insight and impactful decision-making.

The result is a system that accelerates innovation, boosts productivity, enhances quality, reduces costs and improves business resilience.

"Creating a virtual twin is a natural thing for us to manage the aircraft's lifecycle. We can start virtually, resolve any design issues, define the assembly process and then build it.

Michal Illich, Founder and CEO, Zuri

Read more about Zuri and how they use the **3D**EXPERIENCE platform's solutions.

Zuri
Success Story

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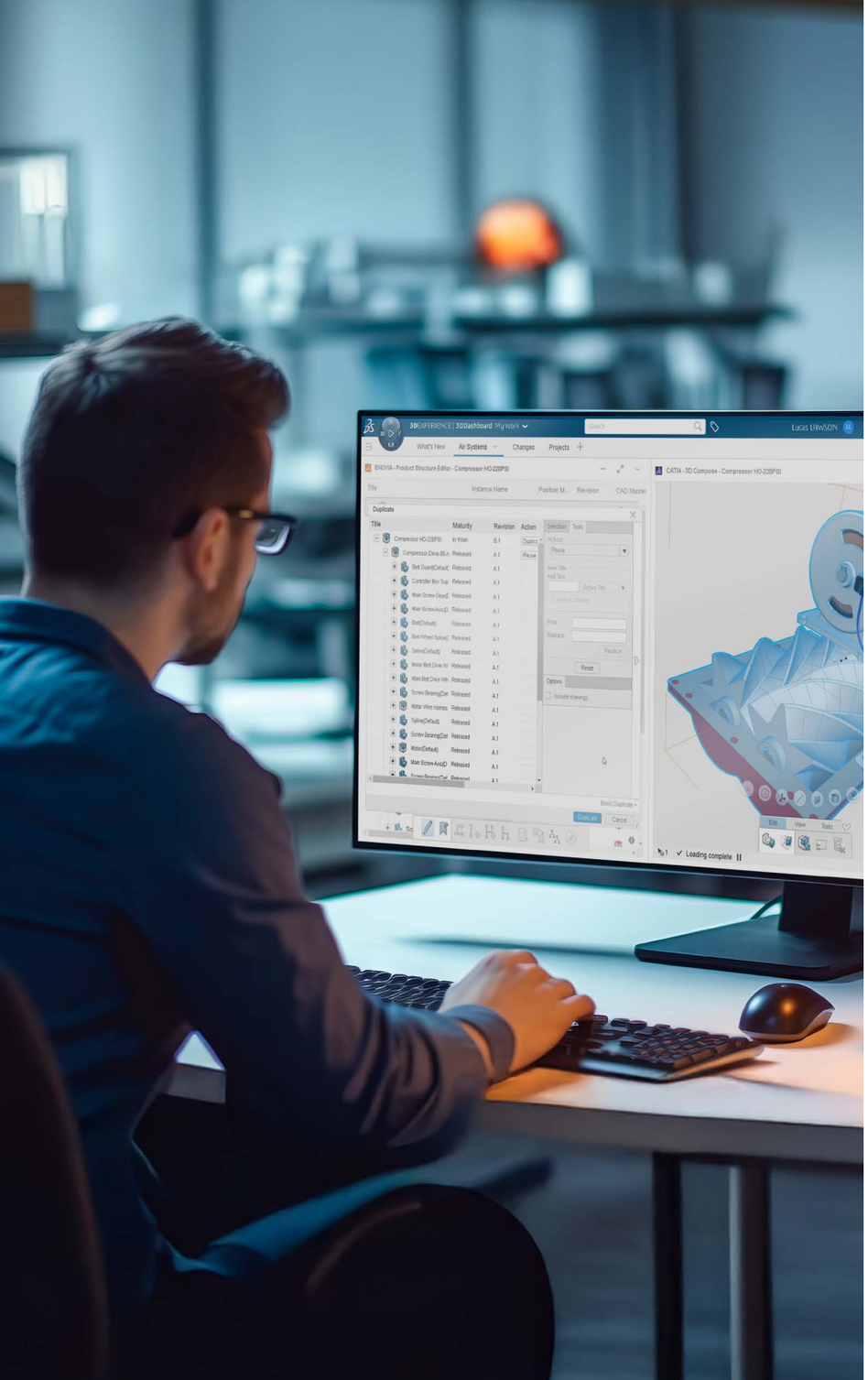

PLM & MBSE on the 3DEXPERIENCE Platform

Model-Based Systems Engineering (MBSE) on the **3D**EXPERIENCE platform offers an innovative approach to systems engineering, reshaping how complex products are designed and developed. Unlike traditional document-centric methods, MBSE leverages a model-based and data-driven strategy that integrates all engineering disciplines across the product lifecycle with a common semantic model. The **3D**EXPERIENCE platform enhances this with the POWER'BY open architecture that enables organizations to transition to a model-based environment while maintaining their existing CAD investments.

The platform integrates CAD systems into a unified context, ensuring that various CAD outputs are interconnected with system requirements, functional simulations, and performance metrics.

The **3D**EXPERIENCE platform further amplifies the benefits of MBSE with:

Seamless Collaboration: Enable mechanical, electrical and software disciplines to collaborate effectively in a unified digital environment.

Comprehensive Traceability: Ensure design changes are linked to requirements, system behaviors and physical testing to foster precision and accountability.

Operational Efficiency: Eliminate the need for duplicative processes, enhancing efficiency throughout the product lifecycle.

Scalability for Growth: Maintain agility without disrupting established workflows.

With a platform approach to MBSE, companies can improve engineering workflows, increase design fidelity, and accelerate product development while facilitating a continuous path to innovation.

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The **3D**EXPERIENCE platform from Dassault Systèmes redefines what is possible in product lifecycle management. That is because the **3D**EXPERIENCE platform goes beyond supporting ad hoc processes to enabling enterprise transformation. It equips organizations of all sizes and industries with the capabilities needed to stay competitive, adapt quickly, and drive sustainable growth. By adopting this comprehensive innovation platform, businesses prepare themselves to meet the challenges of today and shape the innovation of tomorrow.

Now is the time to make the shift. Leverage the power of the **3D**EXPERIENCE platform to accelerate your innovation journey, deliver unmatched customer experiences, and secure your position at the forefront of your industry. Your future of sustainable innovation starts here.

Explore additional PLM success stories

Quickstep
Success Story

Alps Alpine
Success Story

Contact a **3D**EXPERIENCE platform expert to schedule a live demonstration and discover the value to your organization.

Our **3D**EXPERIENCE® platform powers our brand applications, serving 12 industries, and provides a rich portfolio of industry solution experiences.

Dassault Systèmes is a catalyst for human progress. We provide business and people with collaborative virtual environments to imagine sustainable innovations. By creating virtual twin experiences of the real world with our **3D**EXPERIENCE platform and applications, our customers can redefine the creation, production and life-cycle-management processes of their offer and thus have a meaningful impact to make the world more sustainable. The beauty of the Experience Economy is that it is a human-centered economy for the benefit of all – consumers, patients and citizens.

Dassault Systèmes brings value to more than 300,000 customers of all sizes, in all industries, in more than 150 countries. For more information, visit **www.3ds.com**.

3DEXPERIENCE®

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