AEROSPACE
& DEFENSE

FREE PREVIEW

OPTIMIZING PRODUCT DEVELOPMENT WITH **MODEL-BASED SYSTEMS ENGINEERING**

Get a preview of the valuable insights available in our white paper, Optimizing Product Development with Model-Based Systems Engineering.

DASSAULT SYSTEMES

The Aerospace and Defense (A&D) industry is seeing an increased demand for Model-Based Systems Engineering (MBSE) capabilities across new, current and future programs. MBSE is part of the larger systems engineering (SE) field. It focuses on the practice of utilizing models to support the end-to-end development lifecycle.

A&D MARKET LANDSCAPE

$3 Trillion+

The total defense spending could reach $3 trillion in less than a decade (by 2030).

$100 Billion

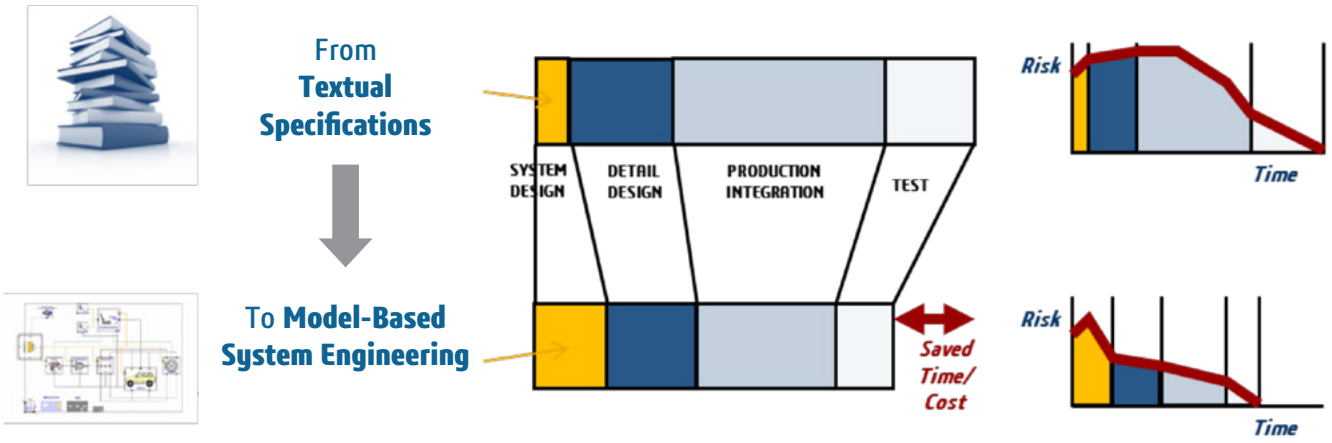
Germany announced its new $100 billion defense plan in March 2022, joining multiple armies in launching new digitalization plans.

$10 Billion

From 2015 to 2020, investments in space companies increased from $1.4 billion to $5.2 billion. The market should reach $10 billion by 2030.

A DIGITAL SOLUTION FOR TODAY'S CHALLENGES

Leveraging a digital platform with native MBSE capabilities will improve the efficiency and effectiveness of product development with clear, concise and digitally connected solutions compared to a traditional document-centric approach.



Product design using MBSE brings significant gains in project performances (quality, cost, scheduling)

WHAT YOU CAN ACHIEVE WITH DASSAULT SYSTÈMES' SOLUTIONS

Our solutions can help aerospace and defense organizations implement MBSE in their system development processes on the **3D**EXPERIENCE® platform, enabling you to:

Requirements Engineering
- ✓ Minimize downstream defects, risks and schedule delays
- ✓ Reduce re-work with knowledge management systems

Systems Architecture
- ✓ Reduce systems development efforts
- ✓ Achieve digital continuity to enable a comprehensive system definition

Systems Design and Trade Analysis
- ✓ Employ real-time design exploration, optimization and simulation
- ✓ Vertically integrate analytics and design

Verification and Validation
- ✓ Avoid investment in costly certification processes
- ✓ Expedite liability-related root-cause analysis investigations

Governance and Collaboration
- ✓ Enhance the quality of artifact tracking
- ✓ Increase interdisciplinary collaboration and productivity

"The decision to adopt Dassault Systèmes' **3D**EXPERIENCE platform is a key milestone in our digital transformation. This digital enabler provides global design and manufacturing capabilities that will fuel our second century."

Theodore (Ted) Colbert III, Chief Information Officer and Senior Vice President of Information Technology & Data Analytics, Boeing

OUR CUSTOMERS

We've deployed our MBSE capability solutions across a wide array of customers in various industries such as Lockheed Martin, Sikorsky, Airbus, Audi, ThyssenKrupp Marine Systems, Bosch Car Multimedia and many more.

Download our white paper now and uncover the strategic insights that will unlock unparalleled benefits across your entire value chain.

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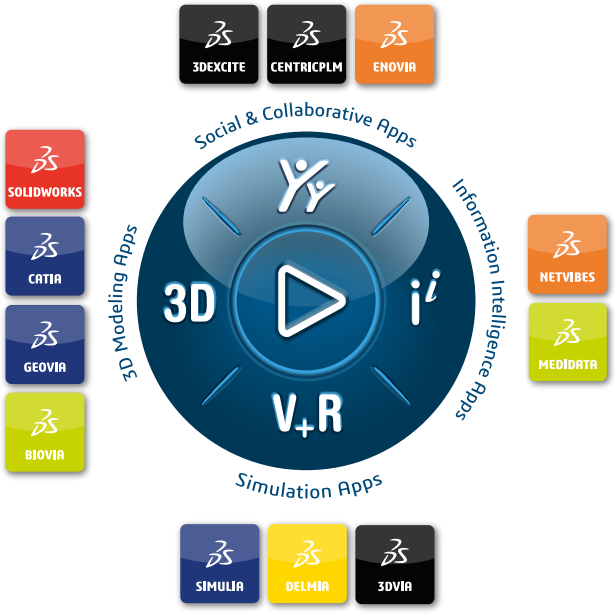
Our **3D**EXPERIENCE® platform powers our brand applications, serving 11 industries, and provides a rich portfolio of industry solution experiences.

Dassault Systèmes, the **3D**EXPERIENCE Company, is a catalyst for human progress. We provide business and people with collaborative virtual environments to imagine sustainable innovations. By creating 'virtual experience twins' of the real world with our **3D**EXPERIENCE platform and applications, our customers push the boundaries of innovation, learning and production.

Dassault Systèmes' 20,000 employees are bringing value to more than 270,000 customers of all sizes, in all industries, in more than 140 countries. For more information, visit **www.3ds.com**.



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DASSAULT SYSTEMES | The **3D**EXPERIENCE® Company

Europe/Middle East/Africa
Dassault Systèmes
10, rue Marcel Dassault
CS 40501
78946 Vélizy-Villacoublay Cedex
France

Asia-Pacific
Dassault Systèmes K.K.
ThinkPark Tower
2-1-1 Osaki, Shinagawa-ku,
Tokyo 141-6020
Japan

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