



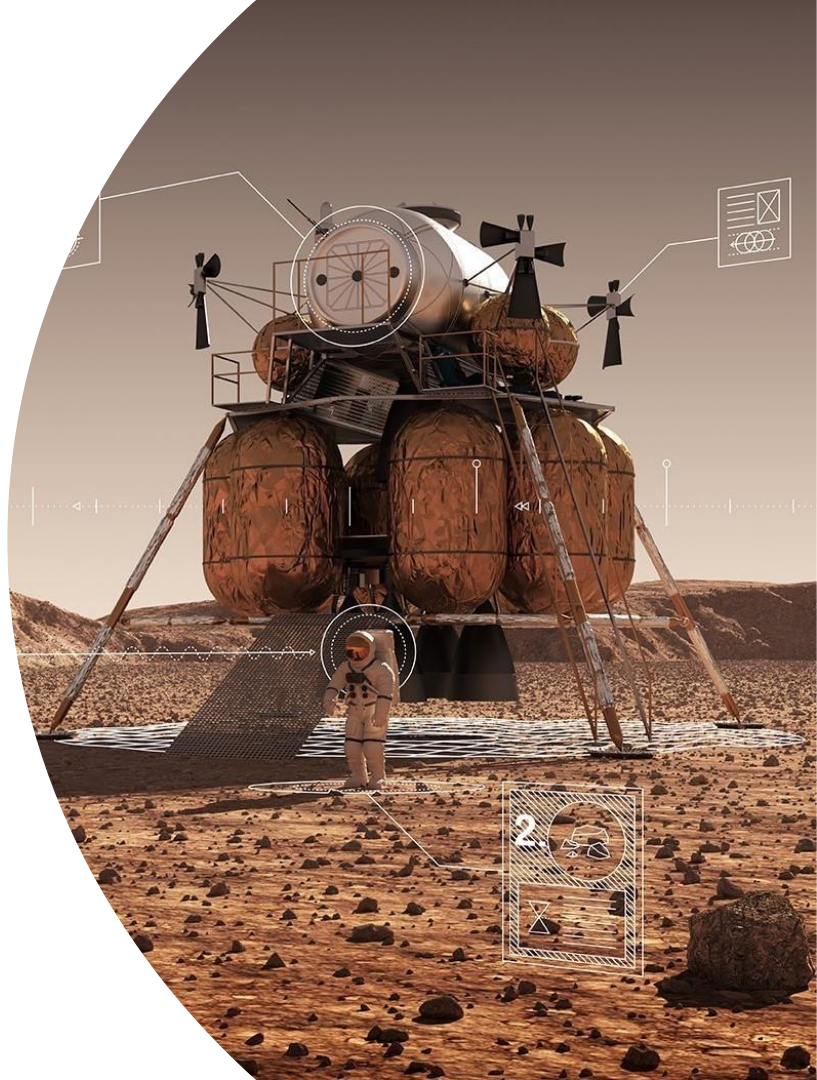
3DEXPERIENCE®



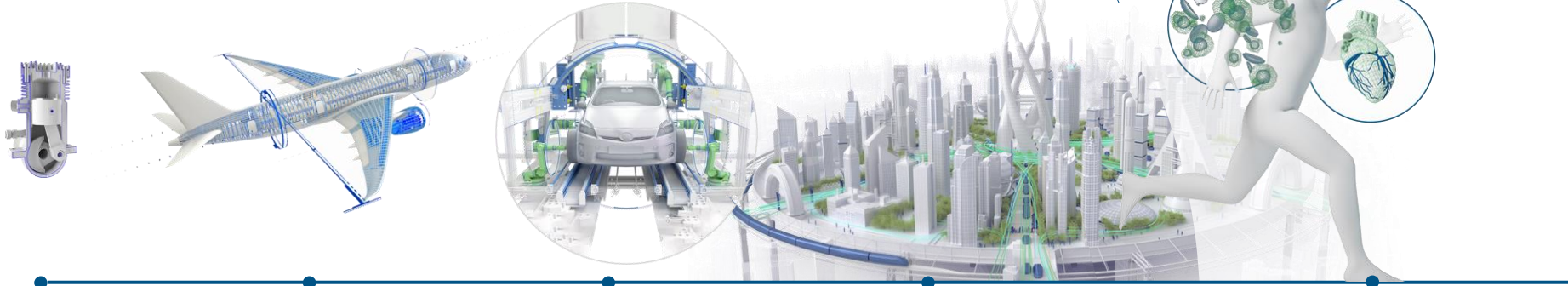
ENOVIA

Plan Your Definition of Success

DS DASSAULT SYSTEMES | The 3DEXPERIENCE® Company



OUR LEGACY



1981
3D Design

1989
3D DMU
Digital Mock-up

1999
3D PLM
Product Lifecycle
Management



2012
3DEXPERIENCE platform
Business Experience



2020
Virtual Twin Experience of Humans

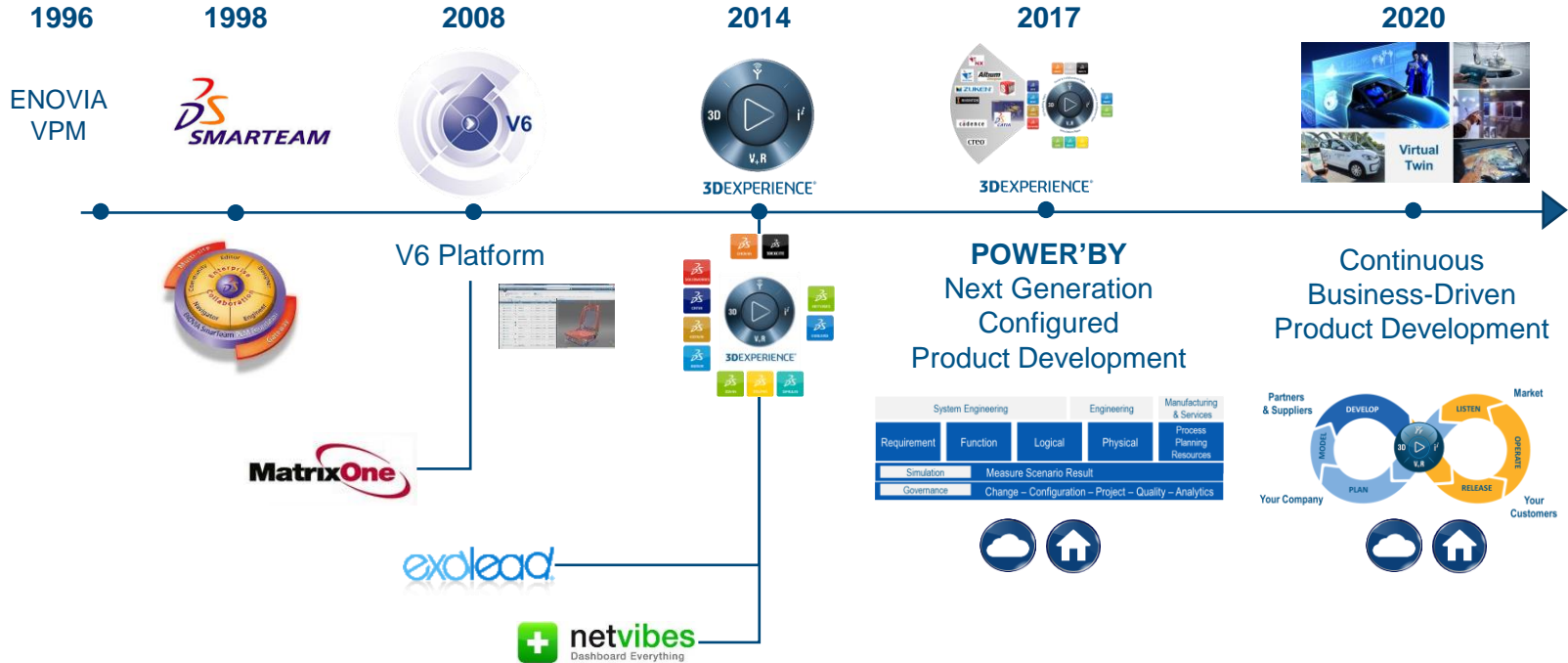


VPM
Virtual Product
Model

PLM PLATFORM & Apps
Product Lifecycle

BUSINESS Apps & Roles
Leveraging the Power of the
3DEXPERIENCE Platform

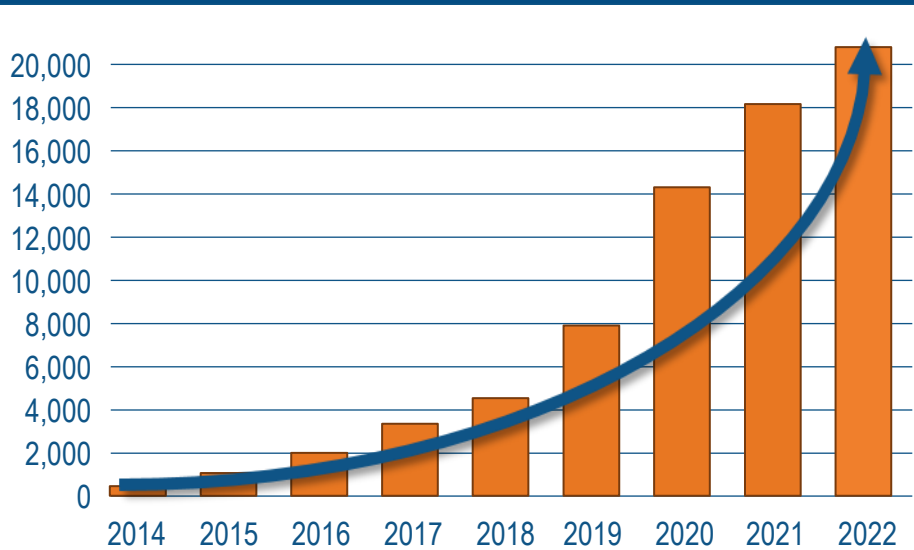
FROM ENOVIA TO 3DEXPERIENCE ENOVIA



3DEXPERIENCE ENOVIA ADOPTION

DYNAMIC & SCALABLE

Strong Customer Adoption Trend of 3DEXPERIENCE



60% Cloud Clients



20,017 Clients

3DEXPERIENCE PLATFORM

VIRTUAL TWIN EXPERIENCES



3DEXPERIENCE™

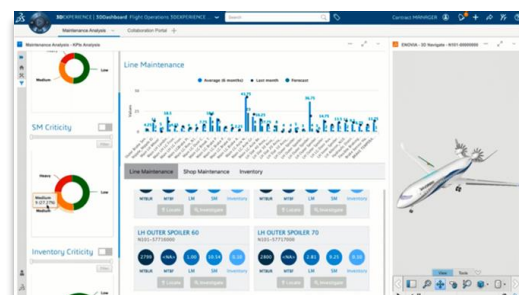
Virtual Twin for Products



Virtual Twin for Enterprises

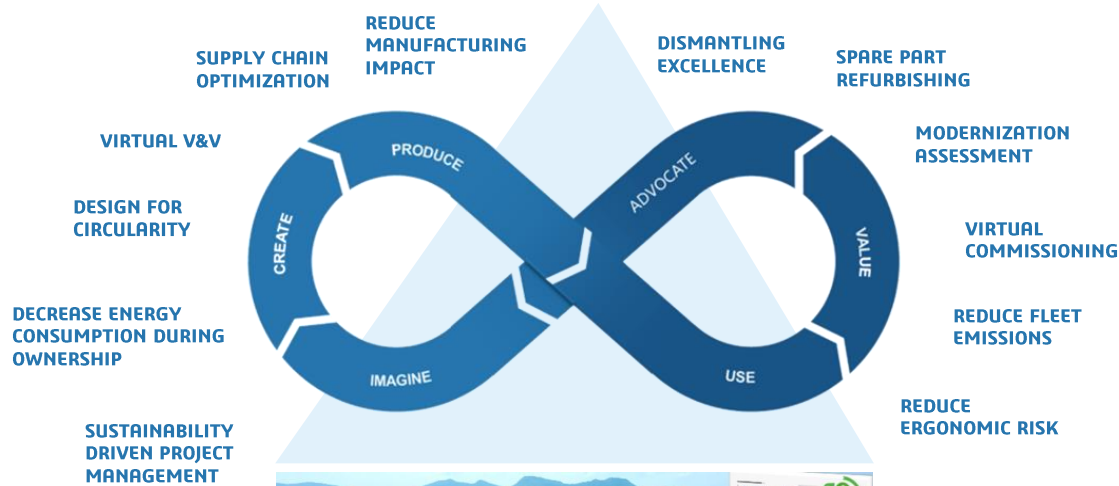


Virtual Twin for Operations



SUSTAINABILITY INNOVATION INTELLIGENCE

Accelerating Sustainability through Virtual Twin Experiences



3DEXPERIENCE®

LIFECYCLE ASSESSMENT

DESIGN FOR CIRCULARITY

**REDUCE WASTE,
EMISSIONS & RISKS**

REAL WORLD EVIDENCE



CECI Engineering Consultants, Inc., Taiwan



西北勘测设计研究院有限公司
NORTHWEST ENGINEERING CORPORATION LIMITED



3DEXPERIENCE PLATFORM

A CATALYST FOR INDUSTRY RENAISSANCE



FROM...

...TO

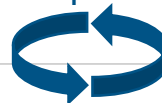


Siloed Disciplines / Product Centric



Virtual Twin Experience of Products

From Product
to
Experience
Economy



Siloed Departments / Transaction Centric



Virtual Twin Experience of Enterprise

From Business
Operations
to
Business
Experiences

Transformation

3DEXPERIENCE PLATFORM

UNIQUE VALUE TO CREATE VIRTUAL TWIN EXPERIENCES



SCIENCE: MOD | SIM

Enterprise in the
Value Network



Production
Sites



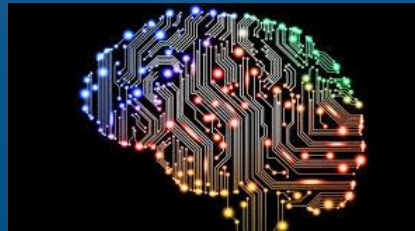
Products



+

SCIENCE BASED

Real World Evidence
BIG DATA+ARTIFICIAL INTELLIGENCE



+

COLLABORATION

Structured

Unstructured



Short

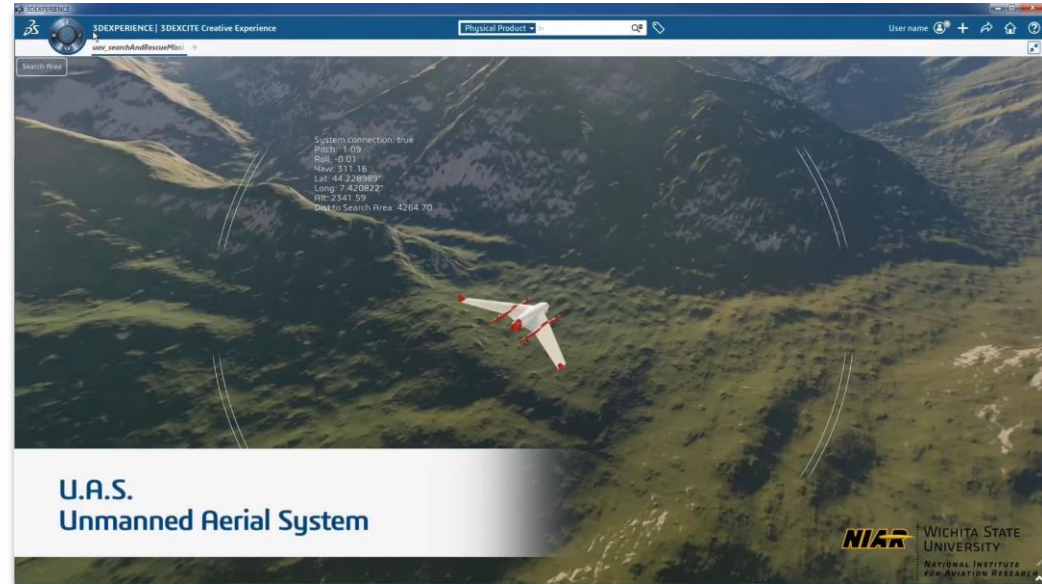
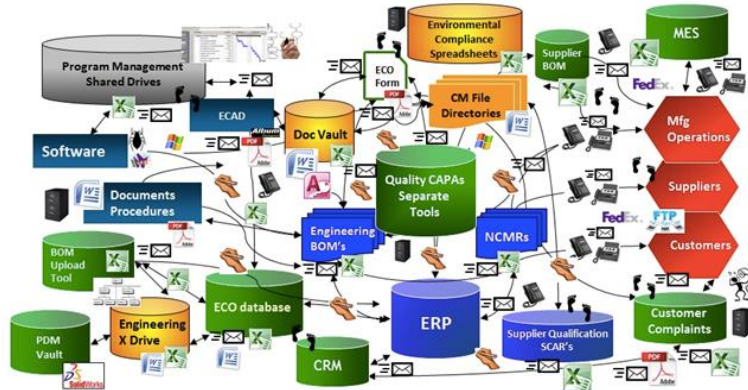
Long

t'

TRANSFORMATION 1

Digital continuity is the capability to transfer information throughout the product life cycle. But it is static data processing. Virtual twin is about mirroring the virtual and real world.

From Digital Continuity...



...to Virtual Twins

TRANSFORMATION 2

In a dispersed value network, sequential processing is not sustainable. Product Development must be experience-, performance- & sustainability-driven.

From Sequential...



Experience driven Virtual Product Development

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...to DevOps

TRANSFORMATION 3

User expectations have increased. The experience must be mobile, easy to learn and FUN!!

From Desktop...



...to Inclusive User Experiences

TRANSFORMATION 4

Multi-discipline teams must break down operational silos and work together in a common environment to drive continuous innovation.

From a patchwork of tools...



...to inclusive Business Experiences

3DEXPERIENCE IS MORE THAN PLM...



"I was really surprised how different 3DEXPERIENCE is from other PLM systems because I **quickly realized that it is first and foremost a collaboration platform** enabling different functions to work together."

Jose Garcia-Urruchi
Head of Digital Design Engineering, Jaguar Land Rover

"**Social collaboration is the power of companies.** Because that's where all our ideas are going to become reality when we ramp up projects. Back in the day, we were running all these activities in a completely disconnected environment... we thought why? We can collect everything in one single place that can become a source of truth for everybody."

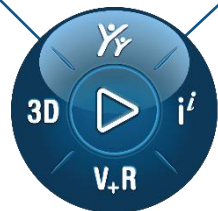
Luigi Ferracutti
Sr Director 3D Development & Tooling , Crocs



3DEXPERIENCE PLATFORM: CORE ROLES



3DSwymer

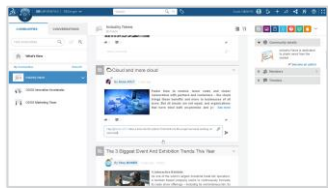


Collaborative Industry Innovator

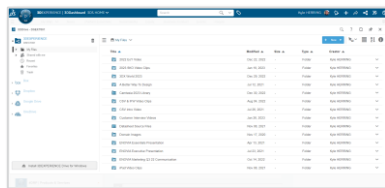
Social Collaboration



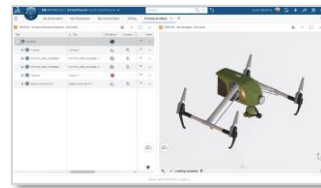
Structured Collaboration



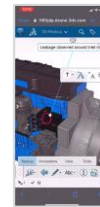
Establish social communities and conversations



Flexibly organize content and share experiences



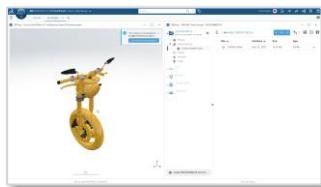
Single, unified engineering definition



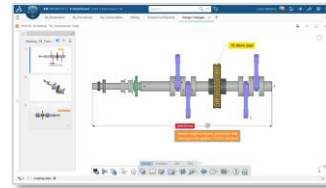
Navigate product structures at any time, on any device



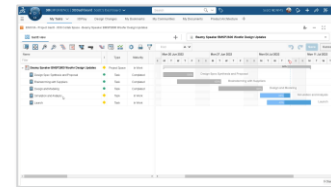
Capture knowledge and know throughout the innovation process



Make accurate decisions based on current data



Review and validate current 3D designs



Standardize project execution and change management processes

3DSWYMER



Unite everyone in the value network for sustainable innovation



- ❖ Establish social communities and conversations to share, experiment and collaborate
- ❖ Flexibly organize content and share experiences
- ❖ Capture knowledge and know how
- ❖ Easily store, share and search information for reuse



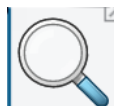
3DSwym

Engage in communities and conversations



3DDashboard

Customize the display of apps and information



3DSearch

Intuitively search across platform apps and data



3DDrive

Securely store, access and share files



3DSketch

Sketch the world you live in



3DPlay

Experience 2D and 3D content in real-time

- NEW APPS -



3DSwym IOS & Android App

Stay connected to 3DSwym on your phone



3DWhiteboard

Contribute to collaborative ideation and innovation



Channel

Follow identified topics and sources in a single view

COLLABORATIVE INDUSTRY INNOVATOR



Organize, manage and collaborate on content in a secure manner



- ❖ Navigate through product structures at **any device**
- ❖ Review and validate current **3D designs**
- ❖ Contribute to engineering definition in **real-time**
- ❖ **Standardize** project execution and change management processes



Change Execution
View and work on assigned changes (CO/CR)



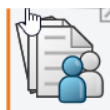
Issue Management
Create, assign and manage issues



3DMarkup
Explore, annotate, section and measure 3D models



Bookmark Editor
Logically organize data and PLM objects in folders



Document Management
Create, search and manage engineering documents



Collaborative Tasks
Simple and intuitive task management



Route Management
Create repeatable routes to help members complete tasks



Collaboration for Microsoft
Manage MS Office documents and capture information



Compare
Identify differences between structures, data and geometry



IP Classify and Reuse
Store, manage and access files across apps

3DEXPERIENCE PLATFORM ARCHITECTURE



3DEXPERIENCE



3DEXPERIENCE®

Roles & Apps

Legacy TRANSITION + INTEGRATED APPS / ROBOTS

SW DS CATIA + xMCAD, xECAD

Semantic Data Model

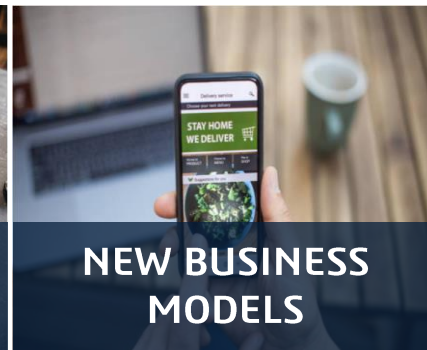
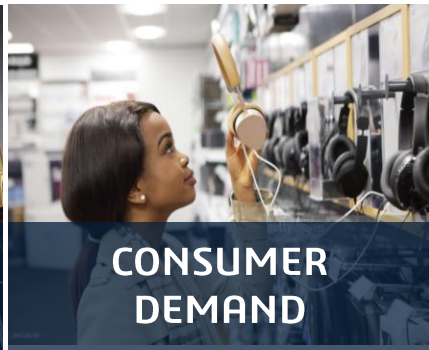
DATA DRIVEN + MODEL BASED + TAILORED ONTOLOGIES

Big Data Infrastructure

CLOUD-READY COLLABORATION-READY DEVICE-READY ARTIFICIAL INTELLIGENCE

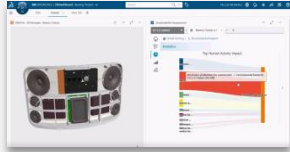
Open
(Extension, Integration, ...)

INDUSTRY CHALLENGES FROM PRODUCT TO EXPERIENCE ECONOMY

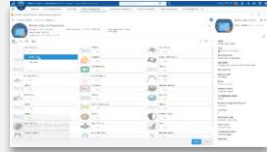


ENOVIA | DOMAINS

Planning



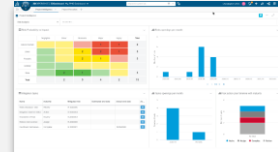
Sustainable Strategy



Portfolio



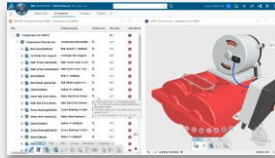
Program & Project Performance & Execution



Quality & Compliance



Virtual Product Development

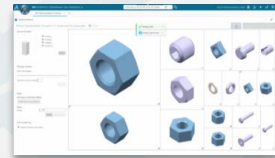


Multidiscipline Configured Product Development

Value Network



Value Network Development



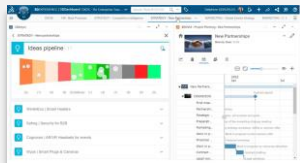
Sourcing & Standardization

Customer Experience

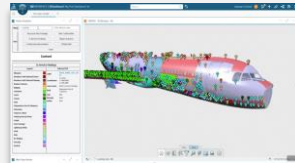


Asset Experience

Collaboration & Intelligence



Social Collaboration & Structured Collaboration



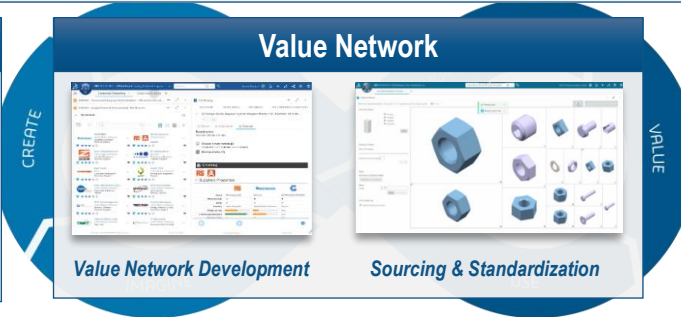
3D for All



Collaborative Content



Information Intelligence for All



PLANNING

From Enterprise to Value Network Planning

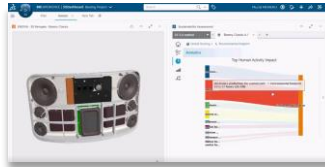


Intelligently plan products and services aligned with business strategy to capitalize on market opportunities.



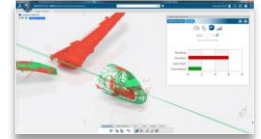
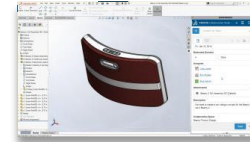
Define a Sustainable Strategy

Rethink sustainability as a constraint to a competitive advantage and industry as the solution for a sustainable world.



Portfolio Driven Product Development Planning

Connect Portfolio Definition to Product Development Project execution and review in context of the product definition.



Scalable & Industry Tailored Planning

Planning that meets the unique industry needs.



Value Network Capital Project

Large Enterprise Project

Team Project

Data Driven Quality and Compliance

Move from document based to data & knowledge driven governance (Quality, Regulation, Compliance and Export Control).



ENOVIA | DOMAINS

Planning



Virtual Product Development



Value Network



Customer Experience

Flight Operations

Collaboration & Intelligence



Ferrit

Ferrit is a mining equipment specialist that develops complex, cost-efficient transportation solutions for material and personnel.



“Project management is one of the core processes being implemented. Using the management dashboard, we can track all project statuses and KPIs in real-time to support quick and effective decision making.”

Martin Kopecek, IT Manager, Ferrit



Challenge

Mining is one of the most energy intensive industries in the world. Ferrit sought a way to radically transform operations and identify more sustainable revenue streams. To do this they embarked on a digital transformation journey to boost its competitive edge and operate more nimbly.

Solution

With the 3DEXPERIENCE platform, Ferrit has digitized their product lifecycle management (PLM) solution

Benefits

By easing access to data and reducing manual data entry, Ferrit expects to improve productivity of PLM users by 10% while simultaneously increasing the accuracy of BOMs. This also allows for future gains from streamlining production from purchasing to production, service and maintenance.

VIRTUAL PRODUCT DEVELOPMENT

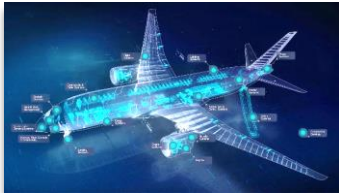
From Product to Experience Innovation



Deliver transformational innovations through multi-discipline collaboration and maximize legacy investments with **POWER'BY**.

Configured Virtual Twin Experience

Configured & multi-discipline (mechanical, electrical, software) virtual product.



Inclusive Engineering & Manufacturing Collaboration

Co-development & co-innovation between all value network actors from Design to Manufacturing.



Business and Real World Data Driven

Best trade-off between variability and standard to be competitive. Business driven decisions (impact of weight, cost, standardization).



Maximize Legacy Investments

Connect third party design data with the **3DEXPERIENCE** platform to leverage collaborative model-based engineering.



xMCAD, xECAD



ENOVIA | DOMAINS

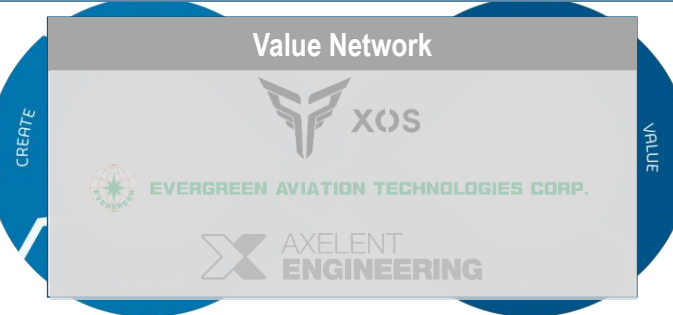
Planning



Virtual Product Development



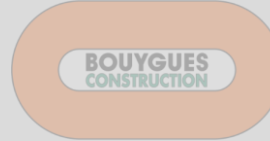
Value Network



Customer Experience



Collaboration & Intelligence



MerConcept

Innovative by nature, MerConcept pushes the limits of ocean racing by harnessing the aerodynamic power of the SVR-Lazartigue.



“Using ENOVIA, the construction and design phase is as smooth as it can be, and that we can support effective information sharing among all the different parties.”

Thomas Normand, CEO, MerConcept



Challenge

With more than 150 external collaborations, MerConcept had to keep everyone up to date with progress and ensure they were all working on the latest version.

Solution

With multiple people working on the design at any one time, ENOVIA helps to ensure that technical modifications are correctly implemented, and all affected stakeholders are notified.

Benefits

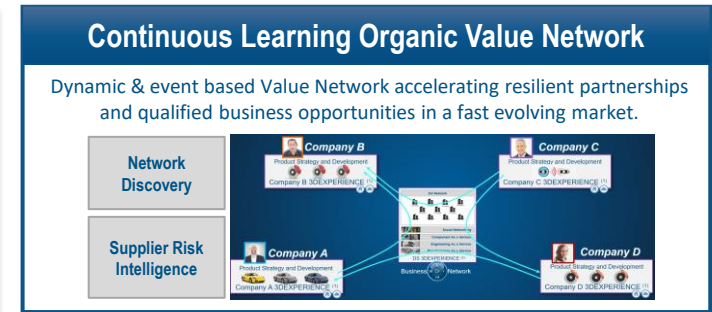
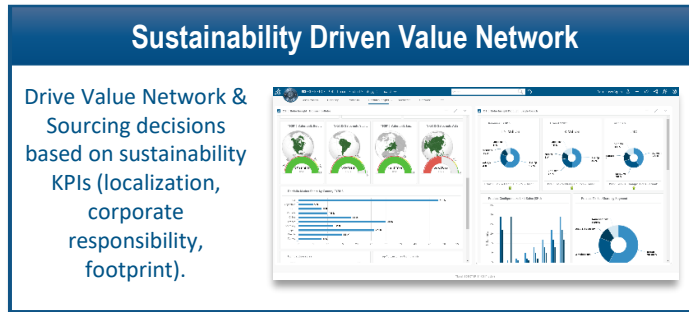
Collaborating on a virtual twin provides a common data environment, where everyone can work together on the same 3D model – so that everyone can see what has been done, and avoid interference issues.

VALUE NETWORK

From Supplier Management to Sustainable Value Network



Model, simulate, build and run sustainable, responsive and resilient supply value network.



ENOVIA | DOMAINS

Planning



Virtual Product Development



Value Network



Customer Experience

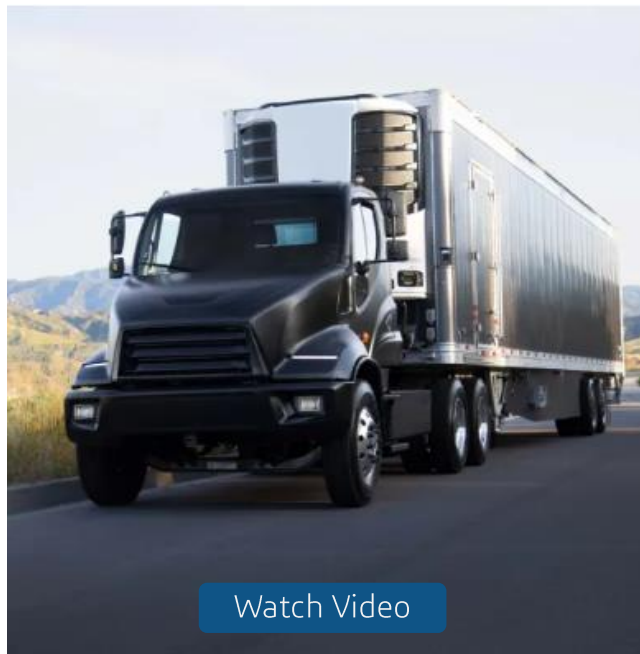
Flight Operations

Collaboration & Intelligence



Xos

Xos is on a mission to decarbonize commercial transportation and facilitate fleet owners' seamless transition from traditional internal combustion engines to 100% battery-electric.



[Watch Video](#)

"We manage innovation with our value network by being collaborative, so we really appreciate the ability to interface with everyone quickly in an efficient way that's not through email."

Dakota Semler, CEO, Xos



Challenge

The demand for Xos products and services is high. They need to work closely and securely with its value network. Disparate systems put them at risk for making mistakes. Xos needed a powerful technology platform to collaborate with their value network and keep all its product development processes in one place.

Solution

ENOVIA on the 3DEXPERIENCE platform allows efficient collaboration with the value network by seamlessly adding them to environments and giving them secure access to the data they need.

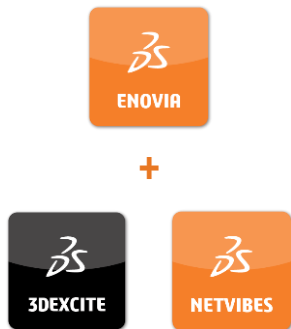
Benefits

Being on the cloud offers seamless interoperability across the value network. This allows XOS partners from across time zones to come together around projects and drive much greater levels of productivity than what was available in traditional CAD environments.

CUSTOMER EXPERIENCE

From Connections to Relationships

From connection to relationship at all stages of the Client Journey, from discovering to using and re-purchasing.



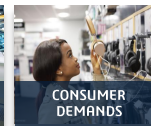
Asset Experience

Secure highest asset performance & availability while monitoring usage.

A screenshot of a software dashboard for asset monitoring. It features several data visualization elements: a bar chart at the top, a line graph below it, and a 3D model of an aircraft on the right side. The interface is clean and professional, with a blue and white color scheme.

Immersive Product Experiences

Maximize sales performance with immersive product experience.

A close-up image of a hand holding a tablet. The tablet screen displays a detailed view of a luxury watch, showing its face, bezel, and metal bracelet. The background is a soft, light blue.

Client Success



Customer Interaction & Satisfaction

Empower client facing teams with relevant elevated data on users & usage.

A photograph of three people (two men and one woman) sitting around a desk, looking at a computer monitor. They appear to be in a collaborative work environment, possibly a customer support or sales team.

ENOVIA | DOMAINS

Planning



Virtual Product Development



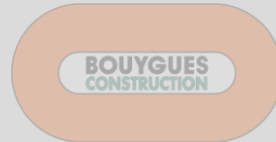
Value Network



Customer Experience

Flight Operations

Collaboration & Intelligence



COLLABORATION AND INTELLIGENCE

From Specialized Business Users to People in Business



Digitally connect all users in the value stream for sustainable innovation.



3DEXPERIENCE®

Inclusive Collaboration

Ensure everyone in business securely collaborates to drive business innovation – move from documents to knowledge and know-how capture and capitalization.



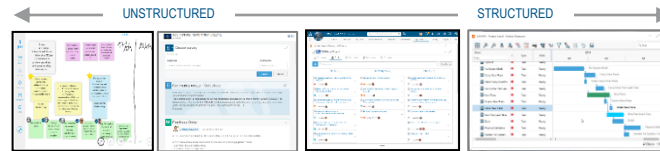
Structured Collaboration

Enable project planning for all, document and product lifecycle management to improve productivity, quality and reduce costs.



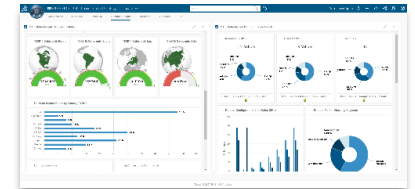
People-centric Flexible Planning to Foster Innovation

Inclusive and collaborative planning combining structured and unstructured. People role & skills driven assisted planning.



360° intelligence

Information Intelligence driven contextual decision support leveraging holistic insight (marketing, financial, quality, technical, operation).



ENOVIA | DOMAINS

Planning



Virtual Product Development



Value Network

CREATE



VALUE

Customer Experience

Flight Operations

Collaboration & Intelligence



Familia Torres

A five generations old Spanish wine producer.



[Watch Video](#)

“With the 3DEXPERIENCE platform, [...] we’ve halved the time it takes to approve projects.”

Francesc Gómez Montenegro, Chief Operating Officer, Familia Torres



Challenge

Familia Torres is renowned for combining tradition and innovation. The Spanish wine producer has more than 24 different brands on the global market. It needed a powerful platform to bring together its product development activities and empower it to manage its growing project portfolio more effectively.

Solution

The company implemented *Perfect Package* on the 3DEXPERIENCE platform on cloud to transform the way it manages projects, documents and the digital approval process of its packaging.

Benefits

With ENOVIA's project management tools, Familia Torres has halved the time it takes to approve projects. Effective communication, seamless information sharing and total visibility of every step of the product development process has helped to reduce rework and late-stage changes, and speed up time to market.

ENOVIA | SUMMARY

The 3DEXPERIENCE Platform is Unique



VIRTUAL TWIN EXPERIENCE Unique Value



3DEXPERIENCE

ENOVIA Helps Address Your Challenges



Planning

Virtual Product Development

Value Network

Customer Experience

Collaboration & Intelligence

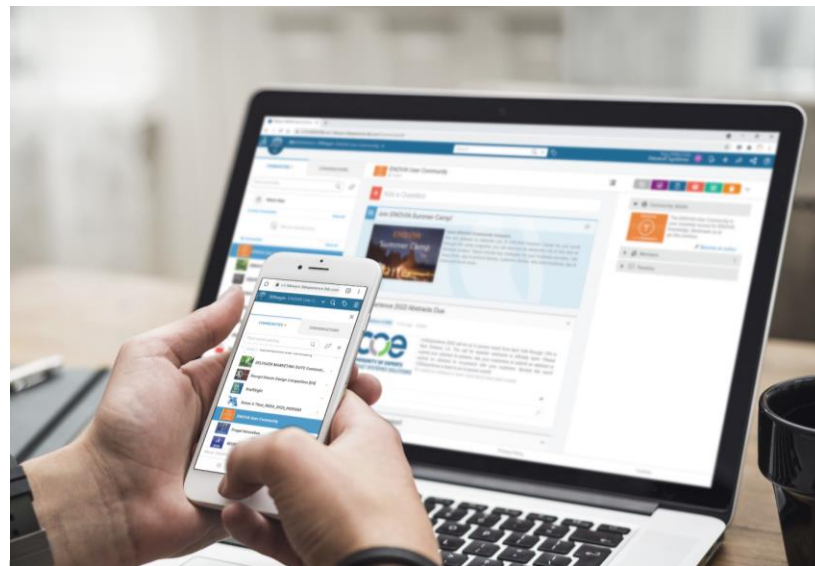
Proven Client Success



NEXT STEPS

Let's continue the discussion on how ENOVIA can bring value to your business.

Set up a meeting with one of our Sales Executives today.



Join us in the ENOVIA Community:
www.3ds.com/products-services/enovia/communities/

