

DELMIA MAKE IT HAPPEN

January 2023

The **3DEXPERIENCE** Company



READ ME

Section 1: Corporate Overview

For more information:

https://eu1-215dsi0708-ifwe.3dexperience.3ds.com/#dashboard:501bc385-6e47-46b7-9c39-aa8904630725/tab:oneJourney

Section 2: DELMIA Global Operations Overview

- Tailor your presentation to the industry, company, and audience this deck is not designed to be used in its entirety
- Additional industry and DELMIA materials can be found on MyOffer: https://dsext001-eu1-215dsi0708-ifwe.3dexperience.3ds.com/#dashboard:c2ea6077-f644-4f53-97ca-172476967e7e/tab:Welcome/app:MAP-CGNOHXYRC
- . This deck is designed as a high-level introduction to DELMIA, more detailed decks relating to the various disciplines are also available on MyOffer

Additional Material

- Customer Stories find the DELMIA_AT series presentation: https://eu1-215dsi0708-ifwe.3dexperience.3ds.com/#app:MAP-CGNOHXYRC/content:assetId=5120.12635.52868.15068&format=PPT&tab=Catalog
- · Use customer slides relative to your audience

Questions

- Visit the DELMIA dashboard: https://eu1-215dsi0708-ifwe.3dexperience.3ds.com/#dashboard:c2ea6077-f644-4f53-97ca-172476967e7e/tab:Welcome
- Contact a DELMIA Marketing colleague





AGENDA

Corporate Overview

About DELMIA

DELMIA's Impact on Today's Sustainable Global Operations

The Power of the Virtual Twin Experience – Beyond Digital Twin

The Virtual Twin Experience in Action

DELMIA Capabilities Summary

Key Considerations and the Way Forward





OUR COMPANY



A purpose-driven company

Combining Art, Science & Technology for a more sustainable world

20,500 passionate people

From 135 countries 180 sites One global R&D / 72 labs



Majority shareholder control Revenue: €4,86 billions* Operating margin: 34,3%*

*Figures as of FY 2021 / Non-IFRS



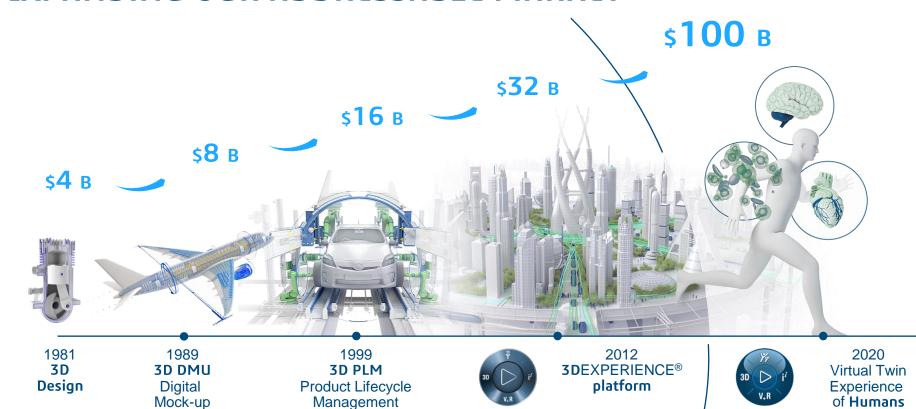
Software, Technology & Architecture
Content & Online services
Sales
Consulting & System Integrators (C&SI)
Education
Research



11 industries in 140 countries 29 million users Game-changing **3D**EXPERIENCE platform



EXPANDING OUR ADDRESSABLE MARKET

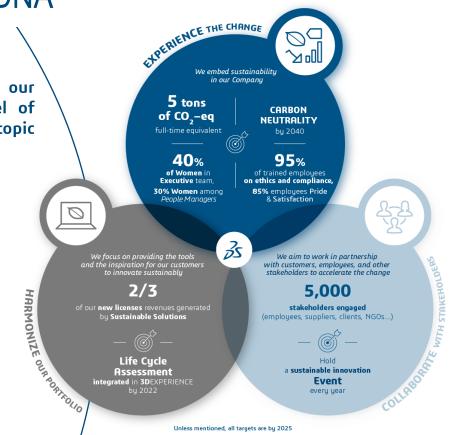


3DEXPERIENCE*

3DEXPERIENCE

Sustainability is part of our DNA

Our Sustainability Compass guides us, while our governance processes maintain a high level of accountability within our organization on the topic of Sustainability.



OUR BELIEF



Virtual worlds **extend** and **improve** the Real world





OUR PURPOSE

Dassault Systèmes provides business & people with **3D**EXPERIENCE® universes to imagine sustainable innovations capable of **harmonizing product**, **nature** and **life**.







3DEXPERIENCE® POWERS OUR BRAND APPLICATIONS







AGENDA

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ABOUT DELMIA

Global Sustainable Operations

- Collaborative Operations with Data Sciences
- Industrial Engineering
- Supply Chain Planning & Optimization
- Manufacturing & Operations

2,000 Passionate Customers

with **1.14M** users from **11** industries
From suppliers, manufacturers, logistics and transportation
providers, to service operators and workforces
Across discrete, batch, hybrid, and process manufacturing
and services



3DEXPERIENCE Platform

Powered by the **3D**EXPERIENCE® platform, DELMIA helps industries and service to **Collaborate, Model, Optimize**, and **Perform** through integrated decision support and real world data evidence

Enabling Sustainable Innovation with the Virtual Twin Experience

Empowering the workforce of the future Transforming supply chains to value networks Building resiliency for future-proofing operations

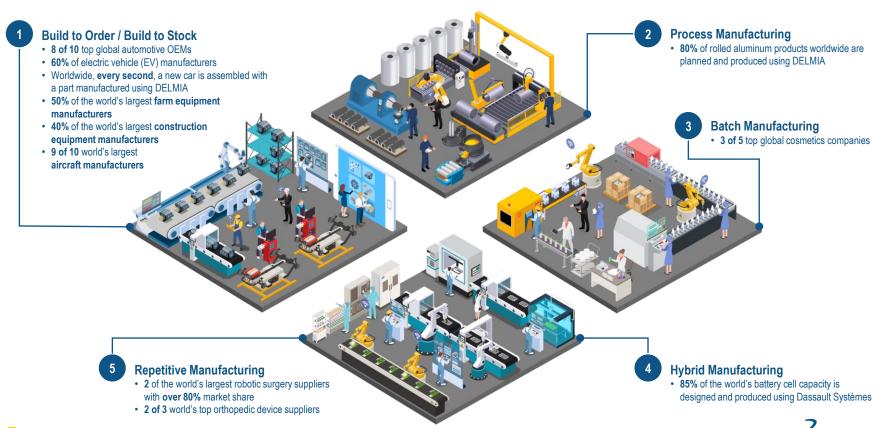


Connecting the Virtual & Real

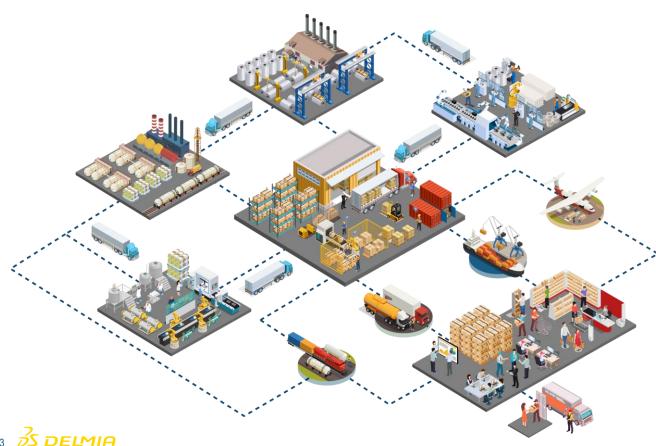
Providing solutions to leverage the virtual world of modeling, optimization and simulation with the real world of operations with an actionable virtual twin experience.



MANUFACTURING LEADERS USE DELMIA



DELMIA SUPPLY CHAIN EXCELLENCE



- Multiple world records for supply chain optimization
- Roster air traffic controllers who manage 70% of the world's airspace
- The world's largest liquid natural gas producers use DELMIA for fleet optimization
- Optimizing delivery of more than 1.8 billion global shipments annually
- 2 of 10 top logistics companies worldwide
- Supporting global retailers that supply more than 20,000 stores worldwide
- 80% of rolled aluminum products worldwide are planned and produced using DELMIA





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BUSINESS TRENDS

















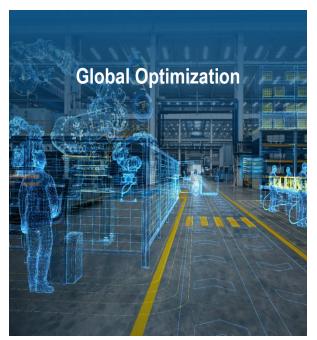


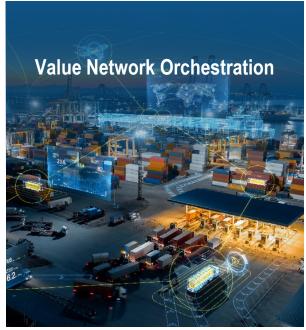
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DELMIA SUSTAINABLE OPERATIONS

Converging Virtual Experiences and Real-World Evidence to Enable:









SUPPORTING THE WORKFORCE OF THE FUTURE

Sustainable Manufacturing Operations

Virtual worlds improve

- Knowledge distribution (democratization)
- Worker safety
- **Decision support** through AI and experimentation
- Job satisfaction
- Operational accuracy and efficiency









Next gen is

- Making decisions that were previously unheard of or not possible
- **Empowered** with knowledge and knowhow
- Requiring the use of technology
- Curious as to how their decisions impact business





SUPPORTING THE WORKFORCE OF THE FUTURE

Sustainable Supply Chain Operations

Virtual worlds improve

- Knowledge distribution (democratization)
- Worker safety
- **Decision support** through AI and experimentation
- Job satisfaction
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USE VIRTUAL TWIN EXPERIENCE TO CREATE SUPPLY CHAIN RESILIENCY

SUPPLY CHAIN

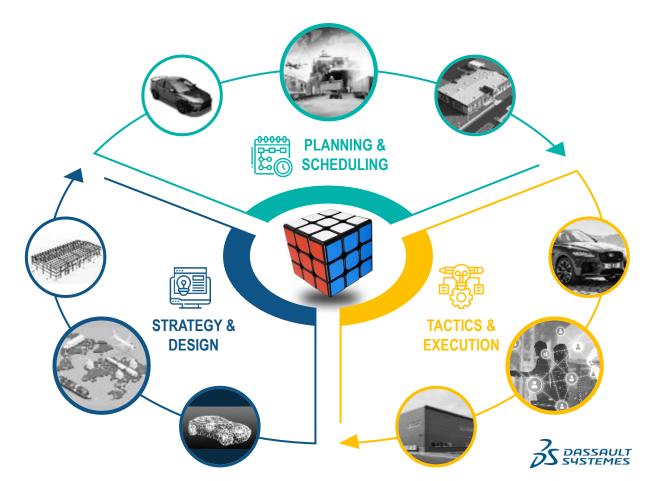
Models of Value Network, Supply, Demand, Partners **Logistics Execution**

RESOURCES

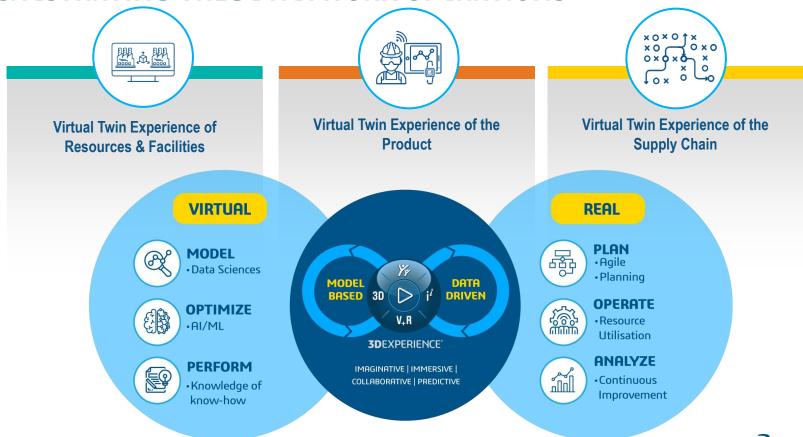
Models of Facilities, Physical Assets, Machines Workforce, Production Execution

PRODUCT

Models of Items, Process Plans, **Build Strategies**



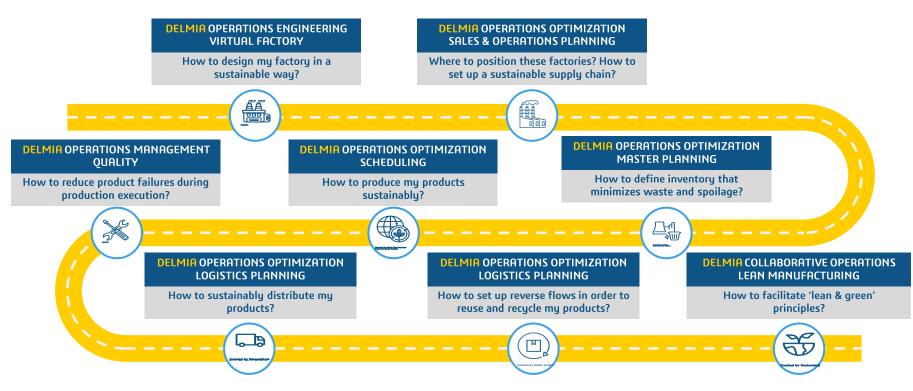
ORCHESTRATING VALUE NETWORK OPERATIONS







EXAMPLES OF HOW DELMIA SUPPORTS SUSTAINABILITY





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DIGITAL TWIN DEFINITION



Article Talk

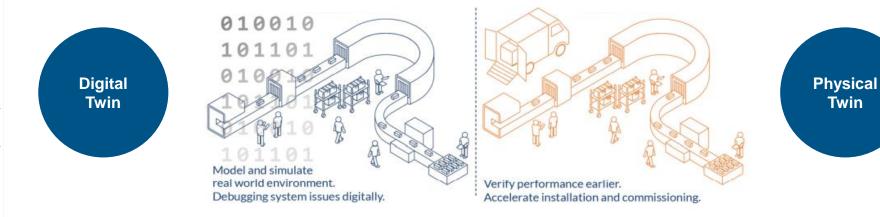
Digital twin

From Wikipedia, the free encyclopedia

A **digital twin** is a digital representation of an intended or actual real-world physical product, system, or process (a *physical twin*) that serves as the effectively indistinguishable digital counterpart of it for practical purposes, such as <u>simulation</u>, <u>integration</u>, <u>testing</u>, <u>monitoring</u>, and <u>maintenance</u>.



TODAY'S STATUS OF DIGITAL TWINS



The DIGITAL TWIN is a static or a semi-dynamic digital model of objects where engineers can simulate the design/manufacturing process virtually to develop and validate systems using simulation without impacting the physical world first.



THE CHALLENGES OF TODAY'S DIGITAL TWINS



Access to real-time data

Often, there is no real-time data available or only from a limited amount of sources, and other times, there is no data at all.



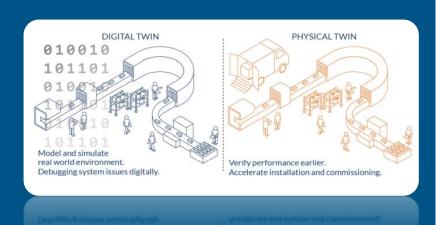
Lack of data standards and integration

Many experience difficulty in finding data available in a usable format. Can it be easily integrated into the data platform of the Digital Twin?



Sustainable and scalable

Digital Twins are purpose built, rigid and can be difficult to maintain over time or expand for new problem solving







DRIVERS FOR FUTURE TWINS



Increased pressure on raw materials



Supply chain carbon footprint



Attracting future workforce



Regulatory compliance



Changing consumer demands



VOLATILITY / COMPLEXITY



Fast-growing requirement for digital businesses



Mandate for sustainability



Increase in demand for EV and Autonomous Vehicles



Data, decision automation and Al





THE NEED FOR A PARADIGM SHIFT

INDUSTRY 4.0

Physical Resources

Digital Twin





Bound by Assets

Localized

Silo-ed

Transactional & Directional

End-to-End Continuity

Model-Based

Data Driven

Collaborative Decision Support (AI/ML)

VIRTUAL TWIN EXPERIENCE



Bound by Imagination

Global

Collaborative

Real-Time, Closed Loop





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UNIQUE VALUE VIRTUAL TWIN EXPERIENCE FOR OPERATIONS



INNOVATION

MODELING + **SIMULATION**





Value Network



Factories, Warehouses, Logistics, Service Centers

Products and Processes

DATA SCIENCE

BIG DATA + MACHINE LEARNING + ARTIFICIAL INTELLIGENCE with REAL WORLD EVIDENCE



C22

Short

COLLABORATION

VISIBILITY + AUGMENTED + CONTEXTUALIZED ACTION



Unstructured

Structured



VIRTUAL TWIN EXPERIENCE FOR OPERATIONS

VIRTUAL

+

From Supply & Demand Planning to

REAL

Supply Chain Planning & Optimization

Construction Preparation
Process Engineering
Manufacturing Engineering

Product Engineering Infrastructure /Construction Engineering Tactical Planning, and Logistics Planning
Supply Chain Data Sciences

APODUCA

APODU

Strategic Planning

Industrial Engineering

COLLABORATIVE

Collaborative Operations

Service Planning Service Execution Transportation Planning Workforce Planning/Execution Intelligence

Operational Planning/Scheduling Production, Warehouse and Operations Execution Fleet & Crew Planning

Manufacturing & Operations Management



DRIVEN

DATA



VIRTUAL TWIN EXPERIENCE FOR THE FUTURE FACTORY



Model & Simulate

Factories, lines, robots, machines, and worker interaction across the manufacturing processes



Collaborate

Bring engineering, production, quality, customer service together with a single model and version of operational truth



Plan & Optimize

AI/ML driven decision support for every facet of manufacturing including continuous optimization based on real-time shop floor data



Innovate

Create and simulate scenarios to explore new manufacturing processes, assets usages, and ways to improve the worker experience



Perform & Analyze

Synchronize, control, and execute tasks and activities perfectly throughout the manufacturing process



Sustain

Eliminate wasteful processes or costly materials with new innovative manufacturing techniques and material

VIRTUAL TWIN EXPERIENCE FOR THE FUTURE FACTORY

Business VALUE and IMPACT



Model & Simulate

Optimize robotics and automation for sustainable, efficient production – reducing cost and time



Collaborate

Accelerate the right decisions and minimize those risks that negatively affect costs, workers, customers and stakeholders



Plan & Optimize

Optimize efficiency and throughput for higher margins, yet enable flexibility to pivot to capture new revenue (or mitigate costs)



Innovate

Re-purpose capacity with lower costs, reduce CAPX projects, define new worker skills



Perform & Analyze

Augmented Reality supported execution that delivers Right First Time while reducing carbon footprint and worker hazards



Sustain

Sustainable engineering for environmental impact to remove waste, material usage, and electrical consumption

VIRTUAL TWIN EXPERIENCE FOR THE FUTURE SUPPLY CHAIN



Model & Simulate

The entire value network, from logistics, to sourcing, to manufacturing, customers, and services



Collaborate

Remove organizational, functional stakeholder barriers



Plan & Optimize

AI driven decision support to automate tasks, equipment/assets, and simplify decision making



Innovate

Simulate scenarios to explore new ways of working and new business models



Perform & Analyze

Transparency and visibility across supply chain stakeholders



Sustain

Assess and understand the variables impacting the carbon footprint

VIRTUAL TWIN EXPERIENCE FOR THE FUTURE SUPPLY CHAIN

Business VALUE and IMPACT



Model & Simulate

Optimize future requirements to capture market share or mitigate risk



Collaborate

Value Network excellence where everyone 'wins'



Plan & Optimize

Al driven decision support to manage efficiencies & disruptions



Innovate

Create new business models, minimize environmental impact



Perform & Analyze

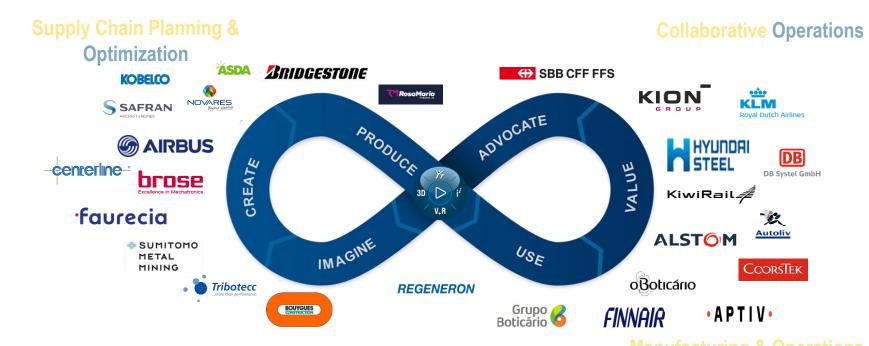
Flawless execution with transparency and visibility for continuous improvement



Sustain

Optimize supply chain & logistics for carbon footprint reduction

VIRTUAL TWIN EXPERIENCE FOR OPERATIONS



Industrial Engineering



Management

AGENDA

Corporate Overview

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ROBOTICS at CenterLine (Windsor) Limited Canada



CenterLine (Windsor) Limited is a family owned Canadian company that builds custom automated welding and assembly lines as well as standard brand products for fastener welding. resistance welding (steel, high strength steel, hot-stamped steel, and aluminum), metal joining, metal forming and metal coating applications.

DELMIA Offer

Robotics Arc Welding & Spot Welding, Off-line Programming

Customer Since 2017



Since implementing DELMIA for every robotic workcell, CenterLine has reduced tooling-related issues and rework by up to 90% and programming time on the floor by up to 75% – delivering on-time, on-budget solutions while enhancing customers' business competitiveness.







MANUFACTURING OPERATIONS MANAGEMENT at Airbus UK



Increased demand in performance and production rates require a radical new approach to the design and manufacturing of aircraft wings. In Filton, a multifunctional team is working to create the wing of the future.

DELMIA Apriso Offer

MOM

DELMIA Users

Manufacturing Operators and Manufacturing Supervisors in Filton factory

Customer Since Go-Live 2021

Challenge

- Support the challenging program of Airbus by delivering expected benefits from DELMIA solutions
- Accelerate solution delivery by leveraging a proven solution at Airbus D&S

DELMIA Apriso Benefits

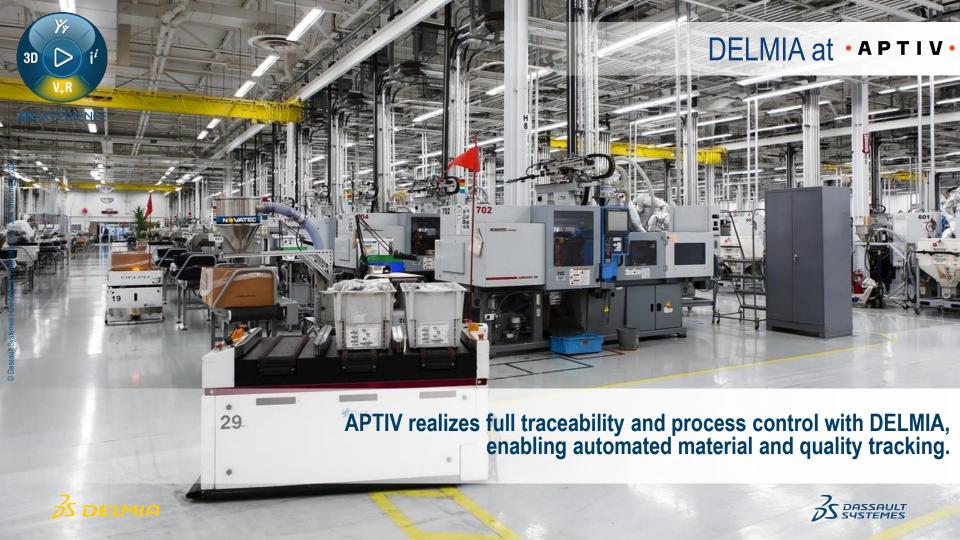
- Digital continuity from design to manufacturing execution
- Connect, enable & empower Airbus workers around one solution

DELMIA Apriso Capabilities

- Delivered:
 - Complex Assembly base functionality
 - Dispatch work package
 - Operator and skill checking
 - Operation hold on issues \ NC
 - Insert an operation at a later stage (ex: create a rework operation)
 - Operation and steps certification
 - Component serial number tracking (manual or barcode entry)
 - Manual tracking of tool usage
 - · Manual measurement capture







· APTIV •

TRACEABILITY at APTIV (formerly Delphi) Ireland



APTIV is one of the largest global Automotive Tier 1 Supplier for automotive electronics. Specialty: powertrain, safety, thermal, controls & security systems; electrical/electronic architecture; in-car entertainment technologies. Headquartered in Dublin with 161,000 employees globally and revenue of \$15,165 billion (2015).

DELMIA Apriso Offer

Production, Quality

DELMIA Users

70 in the first plant, and expanding

Customer Since 2019

Challenge

- JEDEC guidelines are very challenging to implement for MSD using a manual tracking system
- In case of double-sided reflow SMT lines, it is necessary to monitor components placed on both side passes
- Prevent failure: Avoid processing components that have exceeded their allowable limit
- Avoid scrapping components that have not reached their maximum exposure
- Provide real-time relevant information and warnings for decision making

DELMIA Apriso Benefits

DELMIA Apriso allows APTIV to track material exposure times automatically. Shop floor operators were provided with real-time process information right at their workstation

DELMIA Apriso Capabilities

- DELMIA Apriso provides real-time material and production process tracking for seamless end-to-end component traceability
- Allows client to conform to strict automotive safety standards based on regulatory compliance

APTIV is using DELMIA Apriso to provide fully automated material exposure tracking. The solution was configured to allow material handlers easy access to process conditions and material exposure parameters for each component as required.









PRODUCTION at ALSTOM

France



Alstom Transport develops and markets a complete set of systems, equipment and services for the railway sector. Headquartered in Levallois-Perret Cedex, France; employs ~28,000 people worldwide; serves customers in 60 countries; earned € 330 million on sales of € 5.9 billion in 2013/2014.

DELMIA Apriso Offer

Labor, Production, Quality

DELMIA Users

4,000 Users over 8 sites

Customer Since 2018

Challenge

- Transition to paperless work environment to gain agility
- Increase visibility, control and synchronization of operations
- Better plan new product launches
- Bring mobile devices down to the shop floor to improve efficiency

DELMIA Apriso Benefits

- Improve productivity and reduce costs
- Increase quality, traceability and genealogy to meet competitive and regulatory requirements
- Manage operations across multiple sites
- Achieve and sustain manufacturing excellence
- Synchronize people, processes, equipment, tooling & materials across enterprise operations
- Increased responsiveness to market changes

DELMIA Apriso Capabilities

- Directed work instructions with real-time visibility, improved agility and performance
- Higher quality and throughput achieved via operator selfinspection routines
- Production planning and process simulation enabled greater efficiency with product launch plans
- Tablets on shop floor increased efficiency









PLANNING at DB Cargo Germany



DB Cargo is an international transport and logistics company founded as part of the second stage of the reform of the German railway system in the 1990s.

Annual output

1.5 million trains, 3,600 locomotives, 113,000 freight cars

DELMIA Quintiq Offer

Rail Fleet Planning, Scheduling & Operations (for Locomotive), Rail Crew Planning, Scheduling & Operations

Customer Since 2013

Challenge

- Manage large-scale efficiency improvements
- Manage driver qualifications
- Process traction knowledge
- Solve rail freight planning puzzles
- Optimize 5,300 freight trains running daily that cover 100 billion metric ton-kilometers annually

DELMIA Quintiq Benefits

- The planners now have a consistent and real-time overview of all of its operations
- The system in the Netherlands went live in 6 months and payback was achieved in less than 1 year
- Punctuality of the trains in the Netherlands went up from 80% to 90%

"We chose DELMIA Quintiq because they are able to deliver solutions configured to address all of our needs, empowering us to create a Europe-wide integrated operations network while reducing costs and improving customer service. DB Cargo has used DELMIA Quintiq for several years across its Netherland, German and Danish networks, and have had positive experiences and excellent results. We are excited to extend our relationship with DELMIA Quintig."

Oliver Barthel
CIO, DB Cargo GmbH

DELMIA Quintiq Capabilities

- DELMIA Quintiq was able to deliver solutions designed to address all DB Cargo's needs, allowing it to create a Europe-wide integrated network
- Solves intricate rail freight planning puzzles
- Takes numerous constraints into account, like route and traction knowledge, working time directives and regulations for an integrated planning of all locomotives and locomotive drivers
- Performs automatic checks in realtime on almost all regulations







DELMIA at FINNAIR



Finnair has configured the DELMIA Quintiq solution to support it's ground operations workforce.





WORKFORCE PLANNING at Finnair Finland



Finnair flies between Asia, Europe and North America. It's extensive network connects 19 cities in Asia and 7 cities in North America with over 100 destinations in Europe.

Founded in 1923, Finnair is one of the oldest continuously operating airlines in the world.

DELMIA Quintiq OfferWorkforce Planning

Challenge

- Finnair needed a powerful workforce planning solution to manage the complexity of rostering hundreds of employees in maintenance, passenger services, cargo handling and catering
- The solution had to be capable of producing efficient schedules, ensuring compliance with working time regulations, labor laws and individual characteristics such as skills, shift preferences and vacation leave

External Use: 2021 Customer Case Study

DELMIA Quintiq Benefits

- Finnair partnered with and uses the DELMIA Quintiq solution to plan its ground operations workforce
- The centralized system provides all the functionality required by the company to handle the planning challenges of different departments, generating rosters that factor in all unique scheduling constraints

DELMIA Quintiq Capabilities

- With its modern planning system, Finnair can optimize its workforce and run leaner, smoother and more cost efficient operations
- Finnair planners now use a single solution to manage employee schedules across all departments, ensuring everything complies with all labor agreements and regulations
- Backed by powerful insights, they can plan ahead strategically and make truly informed decisions



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Industrial Engineering

All operations' processes to reveal the art of the possible

- ► Enable innovation and efficiency virtually
- Extend visualization beyond product introductions to manufacturing and operations
- ► Plan, simulate, and model global operations with single 3D data model
- ➤ Virtually experience entire operations from design through operations in determining how to meet business objectives
- ➤ Simulate processes before the physical plant or production line even exists
- ➤ Virtually validate value networks, factory layouts, transportation/logistics plans, and workforce plans



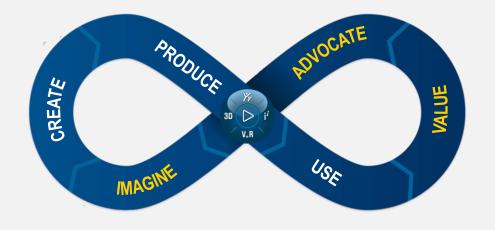




Collaborative Operations

All stakeholders share a common understanding on one platform

- ► Digitalize Daily Meetings & Lean practices on the shop floor
- ▶ Build better teaming despite physical or organizational barriers
- ► Visualize 3D content and data within a digital Lean framework
- ► Explore new ways to solve problems and resolve issues
- ► Address operational waste, variability and efficiency
- ► Make "Lean thinking" core to business, teams and culture
- ▶ Modern, interactive solution accessible to everyone on the cloud



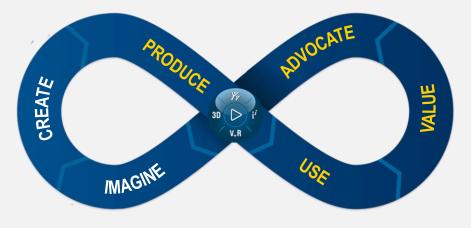




Manufacturing & Operations

Performing operations in the Value Network to deliver excellence and customer satisfaction

- Achieve and sustain operational excellence in executing orders, tasks and activities in day to day operations
- ► Improve visibility into, control over and synchronization across manufacturing operations and supply chain processes on a global scale
- ▶ Drive performance with direct tasking and real-time exception handling that minimizes disruption
- Model-based, data-driven digital user experience for informed tactical decision making
- ► Establish a common set of best practice operational processes that can be created, managed, and governed holistically on a global scale
- Augmented Reality for improved process, execution, quality and workforce productivity & satisfaction
- Reduce Waste with machine connection; automated poka-yoke for all processes
- ► Integrate the Virtual with the Real by displaying real-time KPIs and activities in the Virtual Twin for maximum analytical capabilities

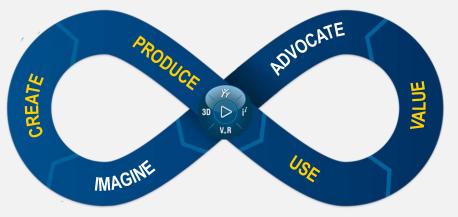




Supply Chain Planning & Optimization

Maximizing business objectives, synchronization and efficiency to achieve results across the Value Network

- ► End to end supply chain optimization for control, visibility and lasting resiliency across your value network
- ► Reality-based planning, scheduling and optimization for complex business processes within supply chain, logistics and workforce operations
- ► KPI-driven planning across all time horizons (strategic, tactical, operational) always in sync with the realities of the business
- ► The best combinations of heuristic approaches, optimization, and machine learning
- ► Unlimited what-if scenario analysis
- ► The entire planning spectrum: Sales & Demand Planning, MPS, Detailed Scheduling as well as Workforce and Logistics planning
- ▶ Build a resilient supply chain to confidently plan for the future and react instantly
- ► Push AND Pull Supply Chain Optimization to supplement electronic kanban







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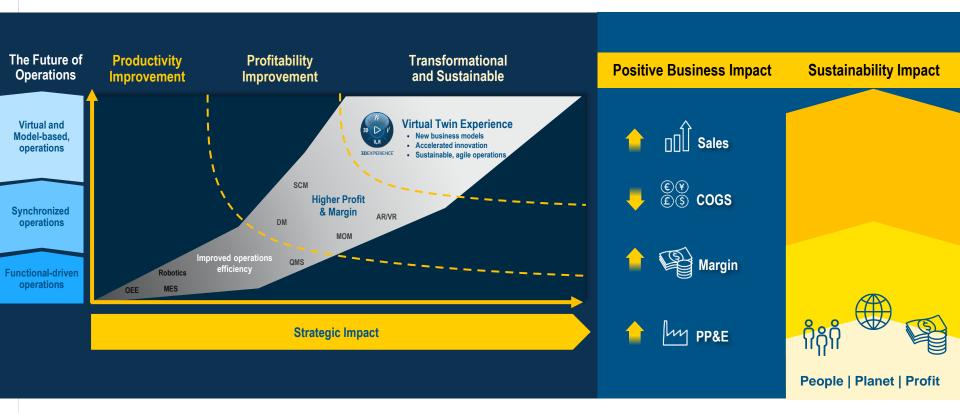
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THE PATH TO EXCELLENCE WITH VIRTUAL TWINS





KEY CONSIDERATIONS OF VIRTUAL TWINS



Transparency is critical

Identify, classify and correlate data, processes, and outcomes across the organization to ensure all stakeholders have a clear understanding



Information and data are key

Make sure data structures utilized can be easily used, exchanged, and understood for teams to leverage in making decisions



The cloud is your friend

Cloud-based computing, storage, analytics and artificial intelligence/machine learning services enable you to build and deploy solutions quickly and affordably



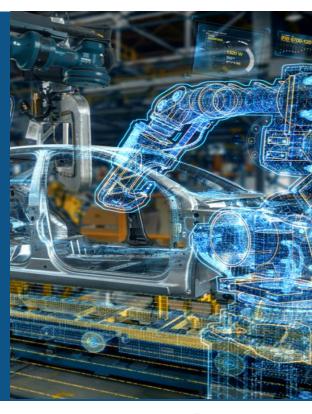
Virtual Twins evolve

As a product has a lifecycle, so do virtual twins. The virtual twin will morph in response to objectives, scope, performance, technology, and business change



Leverage new technology

Bring together V+R with Augmented Reality, Al/ML, optimization technologies, etc.







HOW TO PREPARE FOR VIRTUAL TWINS



Define clear objectives and goals

Identify and map out clear goals and objectives to achieve with clear executive sponsorship



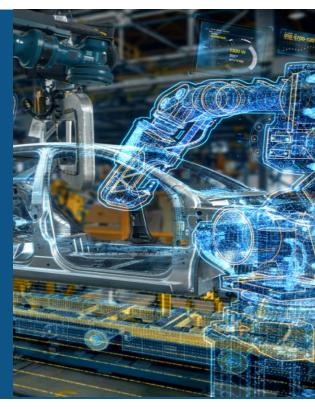
Organize a great team and empower the workforce

Train business heads, IT managers, data analysts, and others on the power of both technology and creativity to imagine solving problems and working differently



Find the right Partner

Invest in and work with business and technology partners who can provide capabilities and model-based platforms to build a connected ecosystem for creating closed loop Virtual Twins







THE WAY FORWARD



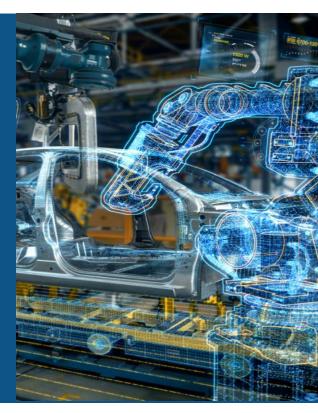
Have a vision, purpose for transformation with strong leadership and management



Rethink the way you work, redefine roles and jobs, and how to solve problems



Partner with companies who can support your efforts, enabling the organization with Virtual Twins







WHY DELMIA



















